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To

M/s. **GAIL (India) Limited**
Jubilee Tower, B – 35 & 36, Sector – 1, Noida
Distt. Gautam Budh Nagar (UP)
INDIA - 201301

Kind Attn.: Shri Rakesh Mishra (DGM-PE)

YOUR REF.: FOA No.: GAIL/NOIDA/C&P/PROJ/PMC/ONGC CBM/20-014/74 dated 21-12-2020
OUR REF.: P.017110/GAIL/0139

☐ Confidential ☒ Restricted ☐ Internal ☐ Public

Date: 11 02 2022

Subject : Submission of Award Recommendation for Laying and Associated Works (Tender ID: 2021_GAIL_99100_1; Tender No.: P.017110 G 11031)
Project : P.017110 – PMC services for Tie-In Connectivities of ONGC Bokaro & ONGC Jharia To JHBDPL Project

Dear Sir,

Please find attached herewith Award recommendation for “Laying & Associated Works” tender for Tie-In Connectivities for ONGC Bokaro & ONGC Jharia to JHBDPL Project.

GAIL (India) Ltd. is requested to review and approve the same.

Thanking You,

Yours Sincerely,

Antik Roy
General Manager – PROJECTS

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AWARD RECOMMENDATION

Our ref.: **Document No.- P.017110 G11050 R010**

Imputation: Project No.P.017110

Client : GAIL INDIA LTD.

Project : PMC SERVICES FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL

Subject : AWARD RECOMMENDATION FOR LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL

TENDER ID: 2021_GAIL_99100_1

TENDER REFERENCE NO.: P.017110 G 11031 R010

Comments:

Revision No.	Date	Prepared / Revision By	Description
00	2022 02 11	Sabitha AUGUSTINE	Issued for approval.

Annexure I	–	Bidder's price evaluation (Part A and Part B)
Annexure II	–	Comparison of Bidders Evaluated prices (Part A and Part B)
Annexure III	–	TRACTEBEL Cost Estimate (Part A and Part B)
Annexure IV	–	Comparison of L1 Bidder's Price with TRACTEBEL Cost Estimate (Part A and Part B)
Annexure V	–	Details of AHR Items (Part A and Part B)
Annexure VI	–	Price Bid opening Statement
Annexure VII	–	Checklist for Award Recommendation

REV.	YYYY/MM/DD	STAT.	WRITTEN	VERIFIED (C&P)	VERIFIED (FINANCE)	VALIDATED	APPROVED
00	2022/02/11		Sabitha AUGUSTINE	Sanjeet KUMAR	Jitender MOR	Antik ROY	Kumar Nityanand SINGH

AWARD RECOMMENDATION FOR LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL

1. NAME OF WORK

Laying and associated works for tie-in connectivities of ONGC Bokaro and ONGC Jharia to JHBDPL.

2. TENDER DOCUMENT NO AND TENDER ID

Tender Document no. P.017110 G11031 R010 consisting of Commercial and Technical specifications (Tender ID: 2021_GAIL_99100_1).

3. MODE OF TENDERING

Tendering was conducted on “Domestic Competitive bidding” basis.

4. SCOPE OF WORK

Complete scope of work is divided into two parts as below:

Part -A: Tie-In connectivity of Bokaro CBM to JHBDPL pipeline (12” x 23.44 KM) - Bokaro CBM with SV-01 (BDPL)

Part -B: Tie-In connectivity of Jharia CBM to JHBDPL pipeline (8” x 5.67 KM) - Jharia CBM to SV- 28 (DDPL)

The scope of work broadly consists of the following,

- Laying, testing and commissioning of pipeline
- Construction of dispatch facility at Bokaro and Jharia terminals for Part A and Part B respectively
- Modification of existing Receiving terminals at SV-01 (JHBDPL pipeline, Bokaro-Angul Section) and SV-28 (JHBDPL pipeline, Dhobi - Durgapur section)
- Procurement including inspection at vendor works for bidder’s bought out items. Scope also includes loading of free issue items from owner’s yard, transportation of the same to project site, Storage, installation, testing and commissioning.
- All associated civil, mechanical, electrical, instrumentation and control works, including Telecom system, SCADA system, Temporary Cathodic Protection (TCP) system and Permanent Cathodic Protection (PCP) System, etc. as detailed in the tender document.
- Crossing of Rail, Road, Foreign pipeline, other utilities and Canal / water bodies etc. including HDD, if applicable.

Scope as defined above is the broad scope. Detailed scope of work shall be applicable as defined in the tender document.

5. COMPLETION PERIOD

Completion Schedule for both parts shall be as below: -

Part-A: 10 months 15 days from the date of issue of Fax of Acceptance for Mechanical completion including mobilization period of 15 (Fifteen) days.

Pre-commissioning and Commissioning 15 days from Mechanical Completion.

Part-B: 10 months 15 days from the date of issue of Fax of Acceptance for Mechanical completion including mobilization period of 15 (Fifteen) days.

Pre-commissioning and Commissioning 15 days from Mechanical Completion.

6. BASIS OF PRICE BIDS

Price bids were obtained for complete scope of work. Bidders were asked to quote the following;

- Unit rates inclusive of all taxes & duties except GST.
- GST (CGST & SGST / UTGST OR IGST) to be quoted separately as per SOR/BOQ.
- Extended stay compensation (ESC) per month basis to be quoted separately as per SOR/BOQ
- GST on ESC shall be quoted separately as per SOR/BOQ.

Prices are firm and fixed till complete execution of the order.

7. PRICE BID OPENING APPROVAL

GAIL vide their e-mail dated 07.02.2022 has accorded approval to open price bid offers of following techno-commercially qualified bidders for the techno-commercially qualified Part(s) as specified below:

1. M/s. Adorn Infra Energy Pvt. Ltd. for Part B
2. M/s. AMP Infra Pvt. Ltd.for Part A and Part B
3. M/s. Corrtech Energy Ltd. for Part A and Part B
4. M/s. Enprocon Enterprise Ltd. for Part A and Part B
5. M/s. Jaihind Projects Ltd. for Part A and Part B
6. M/s. NOPS Infrastructure Pvt. Ltd. for Part A
7. M/s. Oval Projects Engineering Pvt. Ltd. for Part B
8. M/s. Potaliya Enterprises for Part A and Part B
9. M/s. Shakti Engineers for Part A and Part B
10. M/s. Shree Balaji Engineering Services for Part B
11. M/s. Techno Global services Pvt. Ltd. for Part A
12. M/s. Tolani Projects Pvt. Ltd. for Part A and Part B
13. M/s. Vichitra Constructions Pvt. Ltd. for Part A and Part B
14. M/s. ZAK Venture Pvt. Ltd. for Part B

Note:

In the unpriced bid offer submitted by M/s. AMP Infra Pvt. Ltd. and M/s. Vichitra Constructions Pvt. Ltd, both the bidders have quoted for Part A and Part B. During techno-commercial evaluation, the bidders were qualified for any one Part only. Hence, Tractebel vide their PBO recommendation Rev.01 dated 02.02.2022, recommended to open both Part A and Part B of the above referred bidders. Evaluation of their bid offers is dealt as per clause 2.2 of section II, BEC & Evaluation Methodolgy of Commercial Volume I of II.

8. PRICE BID OPENING & EVALUATION

Price bid opening took place via video conferencing with the above mentioned fourteen (14) bidders on 07.02.2022. Price bid evaluations of all price bid offers were taken up for evaluation as per terms and conditions of the bid document and same is described in Clause 8.1 below.

8.1 Evaluation and Comparison of price bid offer

Price Bid offers of all the bidders were taken up for detailed evaluation in line with clause 2 of Section –II "Bid Evaluation Criteria & Evaluation Methodology". The following are the findings towards evaluation of bid offers;

a) All the bidders have quoted for all the SOR line items as per tender requirement in 'figures' & 'words'

b) There is no discrepancy between the prices indicated in both words and figures.

c) All the bidders have quoted GST @18%.

d) Price bid offers of M/s. AMP Infra Pvt. Ltd. and M/s. Vichitra Constructions Pvt. are taken for evaluation for both Part A and Part B with reference to note of Clause 7 above.

e) M/s. AMP Infra Pvt. Ltd. emerged as L1 bidder for Part A only.

f) M/s. Vichitra Constructions Pvt. Ltd. is not L1 bidder in both the Parts and the ranking of the bidder is mentioned in the table below.

g) In the price bid offer submitted by M/s. AMP Infra Pvt. Ltd for both Part A and Part B, Unit rate is mentioned as INR 0.00 against Extended stay compensation. Same is dealt as per clause 2.3 c) of section II, BEC & Evaluation methodology, which states that *"……In case schedule of rates for extended stay is not enclosed or the prices are left blank, it will be considered that prices towards extended stay if any, are included in quoted price as per provision of the tender."* Thus, extended stay compensation as quoted by the bidder has been considered as included in the quoted price.

h) In the initial bid offer submitted by M/s. ZAK Venture Pvt. Ltd., bidder has indicated "Quoted" for Part B and "Not Quoted" for Part A. Accordingly, techno-commercial evaluation was carried out for Part B and bid offer was qualified for Part B only. During evaluation of Part B price bid offer, bidder has mentioned "Not quoted" in the "Name of the bidder/bidding firm/company". However, bidder has selected "Yes" against "Do you want to quote for this sheet?" and has quoted unit rates for all SOR line items of Part B. Therefore, bidder's price has been considered for evaluation for Part B.

Detailed Evaluation Sheets for Price Evaluation & Comparison of evaluated prices of bidders are attached as Annexure I & II. Same is reproduced below:

Part A

Sr. No	Name of the bidder	Total Quoted Prices including Extended Stay Compensation and GST (In INR)	Status	Total Evaluated Prices including Extended Stay Compensation and GST (In INR)	Status	Difference between Quoted and evaluated price including Extended Stay Compensation and GST (In INR)
		(a)		(b)		(c) = (a) – (b)
1.	M/S. AMP Infra Pvt. Ltd.	26,29,51,341.60	L1	26,29,51,341.60	L1	0.00
2.	M/S. Techno Global Services Pvt. Ltd.	29,30,59,000.30	L2	29,30,59,000.30	L2	0.00
3.	M/S. Enprocon Enterprise Ltd.	29,64,11,976.20	L3	29,64,11,976.20	L3	0.00
4.	M/S. Jaihind Projects Limited	30,30,88,475.44	L4	30,30,88,475.44	L4	0.00
5.	M/S. Tolani Projects Private Limited	31,28,91,827.88	L5	31,28,91,827.88	L5	0.00
6.	M/S. Vichitra Constructions Pvt. Ltd.	31,52,86,651.45	L6	31,52,86,651.45	L6	0.00
7.	M/S. Corrtech Energy Limited	34,01,91,166.82	L7	34,01,91,166.82	L7	0.00
8.	M/S. Shakti Engineers	39,22,45,039.00	L8	39,22,45,039.00	L8	0.00
9.	M/S. Potaliya Enterprises	40,32,50,126.10	L9	40,32,50,126.10	L9	0.00
10.	M/S. NOPS Infrastructure Private Limited	45,84,21,553.56	L10	45,84,21,553.56	L10	0.00

Part B

Sr. No	Name of the bidder	Total Quoted Prices including Extended Stay Compensation and GST (In INR)	Status	Total Evaluated Prices including Extended Stay Compensation and GST (In INR)	Status	Difference between Quoted and evaluated price including Extended Stay Compensation and GST (In INR)
		(a)		(b)		(c) = (a) – (b)
1.	M/s. ZAK Venture Pvt. Ltd.	12,22,11,487.26	L1	12,22,11,487.26	L1	0.00
2.	M/s. Adorn Infra Energy Pvt. Ltd.	13,19,31,045.78	L2	13,19,31,045.78	L2	0.00
3.	M/s. Enprocon Enterprise Ltd.	14,70,91,991.40	L3	14,70,91,991.40	L3	0.00
4.	M/s. Oval Projects Engineering Pvt. Ltd.	15,00,33,093.61	L4	15,00,33,093.61	L4	0.00
5.	M/s. AMP Infra Pvt. Ltd.	15,20,48,262.80	L5	15,20,48,262.80	L5	0.00
6.	M/s. Shree Balaji Engineering Services	15,34,36,196.50	L6	15,34,36,196.50	L6	0.00
7.	M/s. Corrtech Energy Ltd.	16,08,32,576.92	L7	16,08,32,576.92	L7	0.00
8.	M/s. Shakti Engineers	16,26,86,836.00	L8	16,26,86,836.00	L8	0.00
9.	M/s. Vichitra Constructions Pvt. Ltd.	16,30,66,776.24	L9	16,30,66,776.24	L9	0.00
10.	M/s. Jaihind Projects Ltd.	18,61,31,068.57	L10	18,61,31,068.57	L10	0.00
11.	M/s. Tolani Projects Pvt. Ltd.	18,92,30,738.94	L11	18,92,30,738.94	L11	0.00
12.	M/s. Potaliya Enterprises	19,12,37,590.90	L12	19,12,37,590.90	L12	0.00

Above evaluated prices are inclusive of extended stay compensation quoted by bidders with GST for one month as per Clause 2.3. (c) of Section II-Bid Evaluation Criteria and Evaluation Methodology.

9. COMPARISON OF L1 BIDDER'S EVALUATED PRICE WITH TRACTEBEL COST ESTIMATE

The details of comparison of L1 bidder's evaluated price with TRACTEBEL cost estimate are provided in Annexure-IV and same is reproduced hereunder:

Sl No.	Description	M/s. Tractebel Cost Estimate	L1 Bidder's price	Name of the L1 Bidder	%age Variation (L 1 Bidder Price – Tractebel Cost Estimate)/ Tractebel Cost Estimate
		Total Price for complete scope of work inclusive of Extended Stay Compensation and including GST in INR	Total evaluated Price for complete scope of work inclusive of Extended Stay Compensation and including GST in INR		
1.	Part A	32,22,29,872.59	26,29,51,341.60	**M/s. AMP Infra Pvt. Ltd.**	(-)18.40%
2	Part B	14,03,51,599.40	12,22,11,487.26	**M/s. ZAK Venture Pvt. Ltd.**	(-) 12.92%

Note:

1. Overall evaluated price of L1 bidders for complete scope of work and Extended Stay Compensation is lower by 18.40% and 12.92% for Part A and Part B respectively from Tractebel estimate. Same are acceptable.

2. It is noted in TRACTEBEL Cost estimate for Part B that unit rate of Item no.464 also includes unit rate of item no. 465. However, this has no impact on the overall cost estimate which remains same. Updated Cost estimate with above effect for Part B is attached as Annexure - III. There is no change in cost estimate for Part A. (Same is attached for reference as Annexure - III)

10. PUBLIC PROCUREMENT POLICY FOR MSE

Since this is a works package tender, this clause is not applicable.

11. PUBLIC PROCUREMENT POLICY FOR PURCHASE PREFERENCE (LOCAL–CONTENT)

This clause is not applicable as all the fourteen (14) techno-commercially qualified bidders are Class-I Local Suppliers.

12. BID VALIDITY

Bid offers of all the bidders are valid for 3 months from the date of scheduled bid submission (18.01.2022), so bid validity of all the bids are till 17.04.2022.

13. EVALUATION OF AHR ITEMS

Part A:

While comparing the unit rates of L1 bidders with TRACTEBEL cost estimate, it is observed that unit rates quoted for 109 of 292 nos (37.33%) SOR line items is more than 50 % of the corresponding unit rate of TRACTEBEL cost estimate. Hence these are falling under AHR category.

The total value of AHR items works out to Rs. 5,85,74,900**/-** which is 26.29**%** of total evaluated L1 bidder's price exclusive of GST.

Part B:

While comparing the unit rates of L1 bidder with Tractebel cost estimate, it is observed that unit rates quoted for 73 of 296 nos (24.66%) SOR line items is more than 50 % of the corresponding unit rate of TRACTEBEL cost estimate. Hence these are falling under AHR category.

The total value of AHR items works out to Rs. 4,58,43,875**/-** which is 44.57**%** of total evaluated L1 bidder's price exclusive of GST.

Payment for AHR items beyond the SOR stipulated quantities shall be made in line with ITB clause No. 41.0 of the Tender.

14. CONCLUSION

The price of L1 bidder for Part A and Part B is 18.40% and 12.92% lower than Tractebel Cost Estimate respectively. Rates are bit aggressive but workable.

15. RECOMMENDATION

In line with Clause 35.0 of ITB, Tractebel recommends GAIL to award the works to the following bidders whose bid are substantially responsive, techno-commercially acceptable and determined lowest for Part A and Part B as below:

Part A:

The complete works of Laying & Associated works for Part A is recommended to be awarded to M/s. AMP Infra Pvt. Ltd. for a total value of Rs. 22,28,40,120/- (Rupees Twenty two Crores twenty Eight Lakhs forty Thousand one Hundred twenty only) which includes Extended Stay Compensation, all taxes and duties but excluding GST. GST is payable extra. Present rate of GST is 18%. GST amount works out to be Rs. 4,01,11,221.60 (Rupees Four Crores One Lakhs Eleven Thousand two hundred twenty one and Paise Sixty only).

Note: As bidder has quoted zero in Extended Stay Compensation, as per Clause no. 2.3 c) of section II, BEC & Evaluation methodology, this is considered to be included in the total Award price and not payable separately.

Part B:

The complete works of Laying & Associated works for Part B is recommended to be awarded to M/s. ZAK Venture Pvt. Ltd. for a total value of Rs. 10,28,49,057/- (Rupees Ten Crores twenty eight Lakhs forty nine Thousand Fifty seven only) which includes all taxes and duties but excluding GST. GST is payable extra. Present rate of GST is 18%. GST amount works out to be Rs. 1,85,12,830.25 (Rupees One Crore Eighty Five Lakhs twelve Thousand eight hundred thirty and Paise twenty five only).

Extended Stay Compensation if applicable, is recommended to be paid @ Rs.7,20,000/- (Rupees Seven lakhs twenty thousand only) per month excluding GST.

TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**			**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL**	**Rev.00** **Date-11.02.2022**
				Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**

M/s. AMP INFRA PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
				UNIT RATE	TOTAL RATE
1	**SECTION-A (MAIN LINE WORKS)**				
2	**CH.0.00 KM to CH.23.436 KM**				
3	**MAINLINE, PIPING AND MECHNICAL**				
4	**PIPELINE LAYING / INSTALLATION** Laying/ installation of coated line pipe, associated fittings and accessories, etc. as per specifications, drawings, other provisions of Contract and instructions of Engineer-in-Charge, including but not limited to carrying out the following: "Receiving and taking-over", handling, loading, transportation and unloading of Owner supplied coated and bare line pipes and other Free Issue Materials from Contractor's own stock-yard to Work site including stringing on the pipeline Right-of-Use (ROU), Arrangement of all additional land required for Contractor's storage, Performing the additional survey wherein survey data is not sufficient in the opinion of Contractor, arrangement of working RoU if RoU width is not sufficient for equipment/ vehicle movement etc., access for construction (other than Owner provided ROU; Developing necessary access way to the worksite, including earth filling, levelling, etc.; supply of all materials (except Owner supplied materials), supply of all materials, consumables, equipment, labour, etc.; fabrication, Staking and installation of construction markers, clearing, grubbing, grading (as required) of Right of Use; clearing and grading of ROU; Cutting/ uprooting of shrubs, plants, vegetation within ROU; , Trenching to all depths and to a width to accommodate the pipeline with optical fiber cable (inside HDPE Duct) by excavation in all types of soil (in case of hard rock, additional payment for hard rock breaking will be paid as per separate SOR line item), including additional trenching for seismic and other areas as specified,(Rate for laying of optical fibre cable and HDPE Duct not be included here and same to be quoted against separate SOR item); Carrying out repairs of pipe and coating defects not attributable to Owner; Thorough internal cleaning of all pipes by suitable methods to remove debris, shots, grits etc.; Stringing of line pipes along ROU including providing straw bags, soft padding/sand padding; Aligning, cold field bending, cutting and beveling (as required) of pipes for welding and field adjustments, NDT & NDT of re-beveled area, welding, carrying out destructive & non- destructive testing of welds required as per approved NDT specifications (including radiography) and providing all requisite equipment, labour, supervision, materials, films, consumables etc.; carrying out repairs of weld joints as required, carrying out re- radiography and other non-destructive tests on repaired joints, etc.; Installation of carrier pipe including concrete coated pipes (wherever required),				
5	(Concrete Coating on pipes, covered separately) at all crossings including roads/ canals/ nala/ water crossings etc. (supply and installation of casing pipe by open cut or by Jacking/ boaring method covered separately) including pre-testing as required; Carrying out installation of carrier pipe in the casing pipe at cased crossings; Coating of all field weld joints, long radius bends (fabrication of Cold field bends covered here and fabrication of 6D bends by induction heating covered separately), buried fittings etc.; Supply & Installation of warning tape along the entire length of Pipeline including Crossing. Lowering the pipelines in trench, providing required padding over and around the pipeline with sand/graded material (in rocky areas), backfilling with available approved excavated material and/or other suitable soil (supply and providing of soft soil for pre & post padding in Rocky area); Supply and installation of slope breaker as per specifications and drawings in steep slope areas, wherever required; Carrying out hydrostatic testing including air cleaning, flushing, filling, gauging, pressurization of complete pipeline in various test sections as approved by Engineer-In-Charge to the specified test pressure, providing all equipment, pumps, fittings, instruments, dead weight tester, all types of pigs etc., and services, supervision, labour, consumables, arranging water required for hydrostatic testing including supply of corrosion inhibitor, air, etc. as required, locating of leaks and rectification of defects attributable to Contractor, re-testing after rectification, successful completion of hydro-testing of pipeline (De-watering covered else where in the SOR); including all tie-in(s) with the pipeline/ piping installed by others including cutting of test header, re- beveling as required; Carrying out all temporary, ancillary, auxiliary works and all incidental works required to make the pipeline ready for pre- commissioning; Carrying out EGP for the entire stretch of completed pipeline, Repair of defects recorded during EGP/gauge plate run or otherwise including cutting, beveling, welding, NDT, field joint coating etc.; as applicable, Final clean-up and restoration of right of use including obtaining NOC from respective statutory authorities as required and disposal of debris and returning all surplus material to designated disposal areas/storage yard, as directed by Engineer-In-Charge; Restoration of land, facilities and boundary wall etc. at associated facilities dismantled/damaged by the Contractor during construction; Obtaining work permits/ NOC from various statutory authorities having jurisdiction and complying with all stipulation/conditions/recommendation of the said authorities; Preparation of as-built drawings, pipe-book and other records. SOR shall be read in conjunction with Project drawings, scope of work, specifications, standards and other provisions of contract document. The work includes the Survey data & site preparation, Stringing/Chainges in direction, Beveling of pipe element, Welding Procedure Qualification & Welders Qualification, Welding of pipe element, Inspection & testing of production welds, Field joint coating, controlled blasting, chiseling, etc., Material hand over & material handling, Lowering-in & ballasting, All crossings except HDD as mentioned in Crossing List (including installation of carrier pipe inside the Casing at cased crossing) , Backfilling (for all depths in all types of soil, soft /hard rock) , including trench padding with sand, graded earth in rocky areas & rock shield(if required as per specs) reinstatement (restoration) and preparation of As-built Alignment & Crossing drawings.				

Prepared Checked Approved

TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. AMP INFRA PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
6	All above works shall be executed in accordance with scope of work, GTS, PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. 1. Supply and Installation of OFC and HDPE Ducts along the entire pipeline route, adjacent to the new pipeline, along with all required accessories, fittings and associated items, is covered separately in the SOR. All above works for buried pipeline (including hook-up pipeline from Tap Off Point inside ONGC GCS, Bokaro upto proposed plot for GAIL DT), as per following details :				
7	ND12", API5L X70 - 6.4 mm	6500	M	2,800.00	1,82,00,000.00
8	ND12", API5L X70 - 7.1 mm	15850	M	2,800.00	4,43,80,000.00
9	ND12", API5L X70 - 8.7 mm	150	M	2,800.00	4,20,000.00
10	**Concrete slabs (Mechanical Protection) as per technical specifications** Supply, fabrication and installation of reinforced concrete weights. Reinforced steel size should be 8 mm. top and bottom at a rate of 200 mm c/c of precasted RCC 1:2:4 on pipeline of wall thickness of 75 mm thick and size as per specifications & Standard drawings and instructions of Owner/ Owner's representative including supply of consumables, materials, equipment, labor, supervision, all associated civil works.	382	M	2,800.00	10,69,600.00
11	**Continuous Concrete Coating** Supply of all consumables and materials, equipments, manpower, submission of application procedure with calculations for anti-buoyancy, design mix procedure qualification and application of continuous concrete weight coating thickness mentioned below (higher also, in case design requirements) on pipeline of all thickness, concrete weight coating of the field joints thereof, and performing all works as per specifications and instructions of Owner/Owner's representative and other provisions of CONTRACT DOCUMENT.				
12	35 mm thick	12	M	5,500.00	66,000.00
13	50 mm thick	12	M	5,500.00	66,000.00
14	**GEO TEXTILE BAGS FOR ANTI-BUOYANCY**				
15	Additional works over and above item no. 4 to 9 for design, manufacture and supply of Non-biodegradable geo-textile bags and installation of geo-textile bags duly filled with gravel/ stone ballast on pipelines of all wall thicknesses for anti-buoyancy, drawings, scope of work and instructions of Engineer-in-Charge and other provisions of the Contract document. Note: This item shall be applicable for Some crossings as per instructions of Engineer-incharge.				
16	ND12" (for all thicknesses)	12	M	5,000.00	60,000.00
17	**Permanent Markers** Supply, fabrication and installation of following types of permanent markers along the pipeline route including all associated civil works such as excavation in all types of soil, construction of pedestals and grouting with concrete, clearing, supply & application of approved color and quality of primer and paint, stencil letter cutting for numbers, direction, chainage, etc. restoration of area to original condition and performing all works as per drawings, specifications and instruction of Owner/Owner's Representative.				
18	Pipeline Warning Signs	35	Nos	5,600.00	1,96,000.00
19	Right-of-way boundary markers	94	Nos	1,200.00	1,12,800.00
20	Kilometer Markers	19	Nos	5,600.00	1,06,400.00
21	Aerial Markers	4	Nos	5,600.00	22,400.00
22	Navigable Waterway Markers	8	Nos	5,600.00	44,800.00
23	Directional Markers	297	Nos	4,000.00	11,88,000.00
	Repair of Defects in Pipe Coating (Attributable to OWNER)				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. AMP INFRA PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
25	**Repair of Line Pipe Coating:** Supply of all coating repair materials as per the requirements of the relevant specifications, supply of all consumables, utilities, equipment, and all manpower required, pipe cleaning and surface preparation, repairing of coating defects (resulting in holiday in coating) and testing including all handling, transportation, etc. for line pipes, performing all works necessary for the completion of the works strictly in accordance with the relevant specifications and instructions of OWNER.				
26	**Repair of Holidays in Coating**	40	Nos	1,000.00	40,000.00
27	Repair of Cosmetic Defects in Coating: Description of same as in 25 above, but for repair of cosmetic defects in coating.	80	m2	1,000.00	80,000.00
28	Repair of Defects in Line Pipes				
29	Repair of OWNER supplied pipes of all wall thicknesses, recorded at the time of taking-over by CONTRACTOR at all places of work.				
30	Cutting and rebevelling	25	Nos	1,000.00	25,000.00
31	Jack out method	25	Nos	1,000.00	25,000.00
32	All works for locating burst (occurred during hydrostatic testing and tightness test attributable to Owner issued materials) including detecting burst, necessary repairing/replacing defective pipe lengths, including cutting out and removing the defective pipe, pretesting the replacement pipe, welding of replacement pipe into mainline and NDT of welding, repair and re-testing of defective welds, coating of welded joints, cleanup, retesting including providing all labor, materials, consumables and inputs other than OWNER supplied materials and performing all works as per drawings, specifications and directions of Owner/ Owner's representative. In case of pinhole leaks not easily detectable all works for locating leak (occurred during mechanical resistance test and tightness test attributable to Owner issued materials) including detecting leak, The Payment will be made as per actual efforts and based on Equipment and manpower Rate provided in SCC . Further replacement & retesting will be paid as above.	2	Per burst	10,000.00	20,000.00
33	**LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER) (FOR TERMINAL PIPING)** **LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER DUE TO FIM)** All works for leak/burst (occurring during hydrostatic testing) by necessary repair/replacement of defective pipe length, including cutting and removing out defective pipes, welding, NDT of welds, repair and re-testing of defective welds, painting of welded joints, clean-up, re hydro testing of the pipe segment including providing all necessary equipment, labour, materials, consumables and inputs other than Owner supplied materials and performing all works as per drawings, scope of work, specifications, standards enclosed with the Contract and directions of Engineer-in-Charge. Note: 1. This rate shall be applicable for manufacturing defects in Company supplied materials only.	18	Inch-meter	1,000.00	18,000.00
34	**IDLE TIME PRESERVATION OF PIPELINE** Preservation of complete pipeline and associated facilities and its maintenance including supply of all consumables, all equipment, man- power, etc., complete as per the requirements of specifications, scope of work, standards, other provisions of Contract document and instructions of Engineer-in- Charge. By filling and pressurizing with nitrogen including supply and maintenance of nitrogen as per following details:				
35	Pipe OD - 12 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - 3 MONTH	23800	M	40.00	9,52,000.00
36	Pipe OD - 12 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - FOR EVERY ADDITIONAL MONTH BEYOND INITIAL 3 MONTHS	23800	M	40.00	9,52,000.00

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37	PRE-COMMISSIONING FOR NATURAL GAS PIPELINES SYSTEM, Carrying out pre-commissioning activities and pre-commissioning checks to the specified acceptance criteria, making the entire pipeline system ready for commissioning (It includes cleaning including magnetic cleaning, Electrical Geometrical Pigging survey, dewatering, swabbing,, pre-drying activity, Golden-tie ins connecting the stations),, supply of all equipment, man-power, consumables, including all type of pigs and required quantity of nitrogen, materials for all temporary works and performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.				
38	Pipe OD - 12 INCH	23800	M	20.00	4,76,000.00
39	**Commissioning Assistance**				
40	**OVERALL COMMISSIONING OF ENTIRE PIPELINE SYSTEM** Overall commissioning including system checks, inertisation (as required) and charging of entire pipeline system, including all stations and all associated facilities including notifying the Company that the pipeline system is ready for commissioning; Review of status jointly with the Company and obtaining final clearance for start of commissioning; Development and submission of commissioning procedures, obtaining Company approval thereupon, carrying out overall commissioning of the total pipeline system including all facilities and all necessary coordination/ liaison with other Contractor(s) operations; Carrying out commissioning; Supply of all equipment like Nitrogen vapourisers (as required), along with all piping and instruments, temporary venting/ flaring/draining facilities as applicable, man-power, consumables including pigs and required quantity of Nitrogen (as required); Performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.				
41	Pipe OD - 12 INCH	23800	M	20.00	4,76,000.00
42	PIPELINE INFORMATION MANAGEMENT SYSTEM Providing pipeline information management system using web based software for monitoring pipeline construction progress and providing all "As Built" data & drawings for entire length of pipeline as per specifications enclosed with the tender document.	1	LS	10,00,000.00	10,00,000.00
43	VIDEO FILM & PHOTOGRAPHY OF CONSTRUCTION ACTIVITIES Preparation of high resolution video films with audio commentary and Industrial photography covering all aspects/activities of pipeline construction annotated as required, conversion of same to video DVD/Blue Ray format, submitting three (3) sets of the same as per details in scope of work document	1	LS	5,00,000.00	5,00,000.00
44	**FABRICATION OF LR BENDS :**				
45	Fabrication of 6D bend / LR (Induction) bends as per the relevant standard & Specification attached with the tender document from free issue linepipes (mother pipe) including but not limited to the following: "Receiving and taking over of free issue linepipes" from GAIL Dump Yard location as mentioned in Scope of Work, carrying out inspection of line pipe at the time of receive taking over in the presence of Company representative, carrying out repair of pipe defects attributable to Contractor after taking over, including supply of consumables & equipments; handling, hauling, transportation and loading/unloading required to transport the mother pipes between place of issue, LR bend fabricator/ manufacturer, intermediate storage as required, and final delivery of fabricated LR Bends to the worksite(s), as per requirement, Manufacturing/ fabricating of LR Bends, as per project requirements and Specifications. LR bends exact angle(s) shall be as per pipeline alignment. Note:- 1. Rate for repairing of defects in linepipes identified and recorded at the time of receiving & taking over i.e. defects attributable to Company shall be quoted separately in the applicable items of the SOR. 2.Loading of Pipe into installation contractor trailer shall be carried out by the GAIL Dumpyard maintenance agency already engaged by the Company.				
46	Bare Pipe ND12", API5L X70 - 7.1 mm	18	Nos	1,50,000.00	27,00,000.00
47	Bare Pipe ND12", API5L X70 - 8.7 mm	22	Nos	1,50,000.00	33,00,000.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

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48	**SUPPLY AND INSTALLATION OF CASING PIPE & 6 INCH CS CONDUIT:** Supply and installation of casing pipe and 6 inch CS conduit for OFC by jacking / boring or open cut for rail, road or canal crossings wherever required in all types of soils and terrain separately for carrier pipes and fibre optic cable inside HDPE duct, supply of casing pipes and all other Contractor supplied materials viz. casing insulators and casing end seals as per enclosed drawing, materials for casing vents and drains, etc. including transportation, supply of all other materials, equipments, consumables, man-power, welding including visual inspection of all weld joints, installation of casing insulators, end seals, vents and drain-off pipes, backfilling and restoration as original of the facility crossed and performing all works as per drawings, specifications including PTS and GTS and instructions of Engineer-in Charge and provisions of Contract document.				
49	Supply and installation of Casing pipe by Boring / Jacking as per item no. 48 (Other than Railway Crossings) Casing Pipe Details: (Pipe 18" , 6.4 mm Thick, API 5L GR.B)	100	M	12,000.00	12,00,000.00
50	Supply and installation of 6 inch CS Conduit by Boring/Jacking as per item no. 48 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	100	M	7,000.00	7,00,000.00
51	Supply and installation of Casing pipe by open cut as per item no. 48 Casing Pipe Details: (Pipe 18" , 6.4 mm Thick, API 5L GR.B)	100	M	11,000.00	11,00,000.00
52	Supply and installation of 6 inch CS Conduit by open cut as per item no. 48 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	100	M	4,000.00	4,00,000.00
53	**HDD CROSSING**				
54	**Generalities**				
55	Topographic / Bathymetry, Geotech Investigation and Hydrological data collection				
56	Site preparation				
57	Design & stress calculations as per requirement				
58	Material hand-over and material handling				
59	Site reinstatement				
60	Final dossier including all notes & calculations as required in the specification				
61	**Installation of 6 inch CS Conduit**				
62	Teletransmission--Separate Drilling for 6 inch CS Conduit for OFC installation				

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63	Installation of HDPE duct & OFC cable inside 6 inch CS conduit				
64	Drilling & Pulling of 6 inch CS Conduit shall be done before mainline HDD.				
65	**Pipeline string**				
66	Beveling & welding				
67	Inspection & testing of welds				
68	Field joint coating				
69	Temporary support (roller)				
70	Control of pipeline string				
71	Hydrotesting & leak test				
72	**Drilling operation**				
73	Earthwork entry / exit points including grading erection of embankment etc..				
74	Supply & clearing out of all material needed for drilling				
75	Drilling of washer pipe, reaming & cleaning of drill opening, supply and preparation of bentonite				
76	Pull back of the pipe string				
77	Disposal of surplus of soil & bentonite				
78	Control of the integrity of the coating				
79	**Work at entry point**				
80	Changes in direction				
81	Beveling & welding				
82	Inspection & testing of welds				
83	Field joint coating & coating of all bare section of pipe				

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84	Earthwork				
85	Lowering-in				
86	backfilling as required				
87	**Work at exit point**				
88	Changes in direction				
89	Beveling & welding				
90	Inspection & testing of welds				
91	Field joint coating & coating of all bare section of pipe				
92	Earthwork				
93	Lowering-in				
94	backfilling as required				
95	Complete work for the water/ Road/ Rail crossings, including taking over and handling of linepipes from Contractor Storage Yard to worksite, Arrangement of all additional land required for Contractor's storage, fabrication, access for construction; construction design calculation and engineering of the crossing, mobilization and demobilization at site(s), supply of all materials as per "Scope of Supply" and all consumables, equipment, manpower and other resources, and acquiring the required land for site preparations, and execution of, but not limited to, the following works in accordance with specifications, drawings, and as per provisions of the Contract document and instructions of the Company/ Engineer-in- Charge: Carry out all surveys required for collecting data relevant to design and construction of the crossing, preparation of all necessary construction drawings for Company's approval as per the provisions of the Contractor document, Preparation of detailed construction method statement and calculations including Scour Depth calculations for river/ canal crossings, Strings preparation including welding, 100% Radiography of welds, NDT of welds and re-beveled areas, radiography, weld repair and re-test, pre-testing of completed string, corrosion coating of field joints with Dirax or equivalent, inspection of corrosion coating and repair of defects, Preconstruction surveys and collection of all necessary data, Installation of pipeline and CS conduit (6 Inch CS Conduit shall be installed through Seperate Drilling) , horizontal directional drilling to the correct profile as per approved drawings and specification, Post-installation hydrotest including leaks and repair of defects and retesting, etc. for defects attributed to Contractor's faulty work, Supply, fabrication and construction of protective fencing as required, Hydrotesting, Supply, fabrication and erection of pipeline markers, Restoration and clean-up etc., Preparation of as-built drawings and other records etc., All other works not specifically listed herein, but required as per specifications, drawings, provision of contract document, calculations, and construction method statements, leading to successful completion of works.				
96	Linepipe details:- (Pipe 12" dia, Wall Thickness: 7.1 mm, Pipe Grade: API 5L GR.X-70 PSL 2, External Coating: 3LPE) CS Conduit details: (Pipe 6" dia, 6.4mm Thick, API 5L GR.B) Note: 1. CS Conduit shall be supplied by the Contractor. Radiography & Hydrostatic testing is not required to be done for CS Conduit. (6 Inch CS Conduit shall be installed through Seperate Drilling) Contractor shall quote accordingly. 2. The rate shall be applicable for the drilled length of the HDDs.	1300	M	10,000	1,30,00,000.00

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97	All above works shall be executed in accordance with scope of work, GTS,PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. This line item is applicable for HDD crossing mentioned in the Crossing List with prior approval of Engineer - In-Charge during Construction.				
98	**SUPPLY & INSTALLATION OF OPTICAL FIBBE CABLE AND HDPE DUCT**				
99	Suppy of 24 Fibre Composite armoured Optical Fibre Cable drum (6 fibre G-655 & 18 fibre G-652) of 4 km +/-5% Cable drum length with fiber terminal closure, inspection chamber, electronic route marker all along pipeline route, Two number electronic locater as per PTS-Optical Fibre cable and Scope of Work C&I along with all required accessories and fitments not mentioned seperately.	26200	M	105	27,51,000.00
100	Inspection/Jointing Chamber (fabricated or readymade)	8	Nos	16,000	1,28,000.00
101	Blowing Pit (fabricated or readymade)	25	Nos	16,000	4,00,000.00
102	Supply of jointing closure 24 Fiber, 2 way including all accessories (3M, Siemens, Reychem make only)	10	Nos	5,500	55,000.00
103	Supply of End to End OFC termination of wall mounted FTC with pig tails other accessories for termination of OFC - 24 Fibre in the Telecom Room at Bokaro & SV1	2	Nos	24,000	48,000.00
104	Electronic marker	8	Nos	4,000.00	32,000.00
105	Electronic Locator	1	Nos	4,00,000.00	4,00,000.00
106	Supply of 50mm OD permanently lubricated HDPE telecom duct along with all the required accessories as per PTS-Optical Fibre cable and Scope of Work C&I	26700	M	105.00	28,03,500.00
107	Laying of HDPE Duct : Laying of 50mm HDPE Ducts in same pipeline trench direct buried, or inside 6 inch CS conduit at various crossings as per Specification in all type of soil & terrain, excavated as required, padding, backfilling, etc. including supply of accessories required for HDPE Duct installation, including plastic couplers, end plugs, cable sealing plugs, end caps, etc. suitable & sufficient for above supplied ducts, cleaning and sealing of ducts at the end laid drum lengths, preparation and supply of cable blowing pit at each Km jointing of HDPE duct, testing of HDPE Duct and accessories after laying preparation of report and final drawing and documents as per specification, joint location marking, erection accessories, as-built, etc.	22500	M	10.00	2,25,000.00
108	Blowing of Optical Fibre Cable inside HDPE Duct : All activities pertaining to Blowing of Optical Fibre Cable in same pipeline trench directly (after testing drum at site), inside HDPE duct along the pipeline and at crossing, sealing using all materials required as per specification	22500	M	50.00	11,25,000.00
109	Installation of FTC & Wire mesh, termination of OFC on FTC / DDF inside telecom room, splicing with steet fibre, fibre test, OTDR test, power testing of laid OFC, identification of fault, rectification, earthing, final testing and commissioning, preparation of reports, etc. work complete in all respect with all necessary accessories for all location till final Handing Over and Taking Over by Owner of laid OFC.	1	LS	5,000.00	5,000.00
110	**TRANSPORTATION OF COATED AND BARE LINEPIPES FROM GAIL DUMPYARDS (ANY LOCATIONIN INDIA) TO CONTRACTOR STORAGE YARD:**				
111	"Receiving and taking over" of "free issue" Linepipes from GAIL Dump Yard location (any location in India); Carrying out inspection of Linepipes at the time of receiving and taking-over, recording of pipe & coating defects at the time of taking over in the presence of Company's representative, carrying out repair of coating defects & pipe defects attributable to Company; including supply of materials, consumables & equipments; handling, hauling and transportation from designated place of issue to Contractor Storage Yard; unloading and stacking of the linepipes at Contractor Storage Yard; including arranging all equipments, trailers, trucks & manpower; all works as per Scope of Work, drawings, PTS, GTS and other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, Provision of Contract & instructions of Engineer InCharge.				

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112	Linepipe Details:- Coated and Bare Line Pipe 12" diameter API 5L Gr. X-70 PSL-2 Wall Thickness - 6,4mm / 7.1mm / 8.7 mm External Coating - 3LPE, Internal Coating - Liquid Epoxy 1) Loading of Pipes into Installation contractor's trailer shall be carried out by the contractor. 2) Development & Maintenance of Contractor Storage Yard adequate to store the linepipes including arrangement of all Lifting & Handling equipment at Contractor's Storage Yard shall be done by the Contractor. Rate for the same shall be quoted in applicable items. 3) Rate for repairing of coating defects in linepipes identified and recorded at the time of receiving & taking over i.e. coating-defects attributable to Company shall be included in this item. 4) Rate for repairing of pipe-defects identified and recorded at the time of receiving & taking over i.e. pipe-defects attributable to Company shall be quoted separately in the applicable items of the SOR. 5) Transportation of line pipe from Contractor's Storage Yard to work site is included in SOR item 1 above, No separate payment will be applicable for the same.	220000	Ton-Km	20.00	44,00,000.00
113	**TRANSPORTATION OF FREE ISSUE PIPING ITEMS (OTHER THAN LINE PIPE) FROM GAIL STORAGE YARDS (ANY LOCATION IN INDIA) TO CONTRACTORS YARD / WORKSITE(S) :** "Receiving and taking-over", handling, lifting, loading, transportation and unloading of Company supplied "free-issue materials" (Other than line pipe) viz. Metering Filtering and PRS Skid, Scrapper Launcher/ Receiver & accessories, Valves with or without Actuators, Insulation Joints, Flow Tee, Pig Signallers, fittings, flanges etc. from GAIL Storage yards location (any location in India) to Contractor's Storage Yard / work-site(s). Note:- 1) Location of GAIL Storage Yard shall be anywhere in India. Contractor shall quote accordingly. 2) Transportation of FIM from Contractor's Storage Yard to work site, is included in SOR item 121 below, No separate payment will be applicable for the same.	15000	Ton-Km	25.00	3,75,000.00
114	**DEVELOPMENT OF CONTRACTOR STORAGE YARD:**				
115	Development of the Contractor Storage Yard including fencing, illumination etc., including deployment of all lifting and handling equipments, manpower required to stack, unload and load all Free Issue Material (FIM) including Line Pipes and all bought out items, as required; storage of all Free Issue Material and bought out items for the required duration as per project requirement, all works as per Scope of Work, drawings, other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, PTS, GTS and Provision of Contract & instructions of Engineer In-Charge. The storage yard shall be used for storage of all Free Issue Line pipes, all other Free Issure Material (FIM) and all bought out items required for the project. Notes:- 1) Development of contractor storage yard adequate to store all the material required for Project, including all Free Issue Material (FIM) and bought out items. (Rate for the same shall be captured in this item) 2) Maintenance of contractor storage yard for the entire project period is included in the scope of contractor. No separate payment shall be applicable for the same.	1	LS	6,00,000.00	6,00,000.00
116	Hard Rock breaking by controlled blasting / chiseling method (rate will be applicable in case when prior approval for rock breaking is obtained by the contractor from GAIL / PMC)	100	M3	5,500.00	5,50,000.00
117	Clean Agent Fire Supression System as per Scope of Work	1	LS	2,50,000.00	2,50,000.00
118	Restoration of underground utilities (pipes & cables) during excavation at ONGC, GCS Bokaro and Receiving Station (which is inside SV-01 Premises)	10	Nos	50,000.00	5,00,000.00
119	**Sub-Total Section A**				**10,75,43,500.00**
	SECTION-B [MECHANICAL (PIPING & TERMINAL WORKS)]				

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	M/s. AMP INFRA PVT. LTD.				
S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
121	**PIPING WORKS AT DESPATCH AND RECEIVING STATIONS AND HOOK-UP WITH ONGC GCS, BOKARO** All works for installation of all piping at all elevations for Despatch and Receiving Stations as indicated in Drawings, Scope document, including supply of all consumables, Gaskets, nuts, bolts Studs, manpower, materials and equipment (except Company supplied free-issue materials), aligning, grouting, tie-in with pipeline and carrying out all mechanical works of underground and above ground piping including fabrication, welding, installation of all pipes, valves (manual & actuated), flanges, fittings, flow tees, pig signalers, insulating joints, corrosion monitoring probes /corrosion coupons, installation of instruments (pressure/temperature gauges, vents, drains-off, safety relief valves, electro hydraulic valves etc.) as indicated in P& IDs and GADs. 100% Radiography of weld joints of piping above 1.5 inch, Magnetic particle & Die penetration test for piping 1.5 inch & below, all NDT of welds, weld repairs/retesting, hydrostatic testing, cleaning/flushing, functional testing, de-pressurizing , Drying and dewatering, cutting and re-beveling (as required), hookup of all pipeline/utilities at the battery limit with the pipeline/utilities installed by others, obtaining all statutory clearances, approvals and permissions for the work (wherever required), excavation and filling in all types of soils including soft/hard rock for installation of piping/ pipe supports; corrosion coating and external painting (as required), finishing, clean-up and restoration of site, preparation of as- built drawings, documents and project records and performing all works as per drawings, specifications, other provisions of Contract document and instructions of Engineer-in-Charge. Civil/ structural works for piping supports will be paid separately as per unit rate provided elsewhere in the contract. Cost of Transportation of all materials (Including FIM mentioned above) for station works, from Contractor's own stock-yard to Work site, to be included in this SOR item. No separate payment will be applicable for the same.				
122	Fabrication and Erection of piping as per item no.110, (For Pipe Size 2 Inch and above, 100% Radiography) Note: 1. Rate for Handling, Fabrication and erection of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item. Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor.Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes 2" & above, shall also be part of this item. Contractor shall quote accordingly.	1900	Inch Dia Meter	800.00	15,20,000.00
123	Fabrication & Erection of Piping as per item no.110 (For Pipe Size Below 2 inch, Magnetic particle & Dye Penetration Test as per the requirement of specification)	50	Inch Dia Meter	600.00	30,000.00
124	Painting of Piping (Pipe, Fittings, Flanges, Valves, Equipments, etc.) as per item no. 110	1950	Inch Meter	75.00	1,46,250.00
125	Hydrostatic testing, cleaning / flushing, functional testing, de-pressurizing, dewatering & drying of Piping as per item no. 110 (for all size upto 12").	1950	Inch Meter	100.00	1,95,000.00
126	**INSTALLATION OF COMPANY SUPPLIED FIM (FML SKID AND PIG LAUNCHER/RECEIVER SYSTEM) AT DESPATCH TERMINAL AND RECEIVING TERMINAL**				
127	Installation of Company supplied Filtering, Metering and PRS Skid and Scrapper Launcher/ Receiver with accessories, at stations including all handling and installation works; as per drawings, specifications enclosed with the Contract and directions of Engineer-in-Charge. Cost of Transportation of above Free issue items, from Contractor's own stock-yard to Work site for station works, to be included in this SOR item. No separate payment will be applicable for the same.	1	LS	1,50,000.00	1,50,000.00
128	**CONTRACTOR SUPPLIED ITEMS:(Supply of Items as per attached PTS,GTS,Data Sheet,QAP and PMS)**				
129	**Station pipe -Seamless**				
130	1" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, PE, SEAMLESS	6	Meter	800.00	4,800.00
131	2" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	90	Meter	1,100.00	99,000.00
132	4" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	120	Meter	1,800.00	2,16,000.00
133	10" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	12	Meter	2,500.00	[illegible]00.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**			**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**
	M/s. AMP INFRA PVT. LTD.				
S. NO.	**WORK DESCRIPTION AND SUPPLY**	**UNIT**	**QTY**	**PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR**	
134	12" pipe, 7.1mm thk, ANSI B 36.10, API 5L X 70,HFERW	84	Meter	2,800.00	2,35,200.00
135	**Supply of fittings & Flanges**				
136	1 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 350 LF2,CL1, BW, ANSI B16.25	4	Nos	500.00	2,000.00
137	1" WNRF FLANGES, 6C1, SCH. 160 / 600#, WNRF, B-16.5, ASTM A350 LF2, CL1, BW-ANSI B16.25 RF	4	Nos	650.00	2,600.00
138	1", BLIND FLANGES, 6C1, 600#, RF, B-16.5, ASTM A350 LF2, CL1, RF	4	Nos	800.00	3,200.00
139	3/4" EQUAL TEES, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25,	2	Nos	9,500.00	19,000.00
140	3/4", CUP THREADED 6C1, 6000#, ANSI B16-11, ASTM A 350 LF2, CL1 , BW - ANSI B16.25, ANSI B1.20.1,	3	Nos	800.00	2,400.00
141	**WELDOLETS (MAINLINE x BRANCH SIZE)**				
142	4" x 1", WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	4	Nos	3,500.00	14,000.00
143	12" x 2" WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 7.1 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 694 F70	5	Nos	3,500.00	17,500.00
144	12" x 2", WELDOLETS (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 7.1 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	35	Nos	3,500.00	1,22,500.00
145	**GASKETS**				
146	GASKETS, 6C1, 600#, RF, ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 1"	12	Nos	85.00	1,020.00
147	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 2"	210	Nos	120.00	25,200.00
148	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 4"	30	Nos	350.00	10,500.00
149	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 10"	2	Nos	350.00	700.00
150	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 12"	44	Nos	600.00	26,400.00
151	**NIPPLES**				
152	NIPPLES, 6C1, Sch 160 /600#, ANSI B 36.10, ASTM A333 GR.6, BOTH ENDS PLAIN, SEAMLESS-LG=100mm, 3/4"	10	Nos	450.00	4,500.00
153	NIPPLES, 6C1, Sch 160 / 600#, ANSI B 36.11, ASTM A333 GR.7, ONE END THRD -MNPT SEAMLESS- LG=100mm, 3/4"	8	Nos	450.00	3,600.00
154	**Supply of following Valves as Per attached PTS,GTS,Data Sheet,QAP,PMS & MTO**				
155	1",BALL VALVE - FULL BORE (RF) (ABOVE GROUND),6C1	6	Nos	14,000.00	84,000.00
156	3/4", CHECK VALVE (RF) (AG), 6C1	2	Nos	7,000.00	14,000.00
157	**3/4",NEEDLE VALVE, 6C1**	5	Nos	4,500.00	22,500.00
158	Note (Applicable for all items of SOR item No 128 to 157): 1. Before procurement of any of the above materials Contractor will take prior approval from GAIL / PMC. 2. Payment will be made for actual quantity used.				
159	**Sub-Total Section B**				**30,01,870.00**
160	**SECTION-C [CIVIL / STRUCTURAL & ARCHITECTURAL]**				

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M/s. AMP INFRA PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
161	**CIVIL , STRUCTURAL & ARCHITECTURAL**				
162	**Earthwork excavation in soil**				
163	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	2900	cum	250.00	7,25,000.00
164	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth beyond 1.5m and upto and inclusive of 3.0m including Removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	70	cum	350.00	24,500.00
165	**Earthwork excavation in soft rock**				
166	Earth work in EXCAVATION below ground level for all kinds of works in SOFT ROCK and HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as irected including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	255	cum	2,500.00	6,37,500.00
167	**Backfilling after execution of work**				
168	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps within a LEAD OF 100M,including re-excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/ mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	1150	cum	350.00	4,02,500.00
169	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps beyond a LEAD OF 100M AND UPTO & INCLUSIVE OF 500M including re- excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	490	cum	400.00	1,96,000.00
170	**Transporting & Disposing the SURPLUS EARTH AND DEBRIS**				
171	Transporting and disposing the SURPLUS EARTH AND DEBRIS including shrubs and vegetations from construction areas to areas ANYWHERE OUTSIDE THE PLANT BOUNDARY, including re-excavating the deposited soil excavated earlier, loading, transportation, unloading, laying at all depths and heights, stacking,levelling and dressing both the area (viz. from where the earth is transported and where it is deposited) to required levels and slopes complete with all lifts as directed. For carting on the basis of truck measurements (volume of truck reduced by 30% for voids). DISPOSAL AREAS OUTSIDE PLANT BOUNDARY TO BE ARRANGED BY THE CONTRACTOR. Royalty as applicable for disposal outside plant limits to be borne by the Contractor	1310	cum	400.00	5,24,000.00
172	**EARTH WORK FILLING BY EXCAVATION**				
173	EARTHWORK IN FILLING by excavating the earth from BORROW AREAS arranged by CONTRACTOR for all leads, transporting the earth from borrow area including cleaning & stripping the earth at borrow areas, breaking clods, loading, unloading and laying at all depths and heights in layers of thickness not exceeding 15 cms., watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% of the maximum laboratory dry density, ressing, trimming, levelling the top surface etc. in foundations, plinths, trenches etc. all complete.	9555	cum	350.00	33,44,250.00
174	**PLAIN & REINFORCED CEMENT CONCRETE: (REFER SPECIFICATION NO. (Z/02/0004)**				
	PLAIN CEMENT CONCRETE - PCC				

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M/s. AMP INFRA PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
176	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:4:8 (1 cement : 4 coarse sand (Zone-III) : 8 graded stone aggregate 40 mm nominal size)	160	cum	5,500.00	8,80,000.00
177	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:3:6 (1 cement : 3 coarse sand (Zone-III) : 6 graded stone aggregate 40 mm nominal size)	22	cum	7,000.00	1,54,000.00
178	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:2:4 (1 cement : 2 coarse sand (Zone-III) : 4 graded stone aggregate 20 mm nominal size)	150	cum	7,200.00	10,80,000.00
179	Providing and laying PLAIN CEMENT CONCRETE for all depths below and upto plinth level in foundations, drains, fillings, non-suspended floors, pavements & ramps or any other works etc. including shuttering, tamping, ramming, vibrating, curing, etc. all as specified in any shape, position, thickness and finishing the top surface rough or smooth as specified and directed all complete for concrete grade M20 with 20mm and down size graded crushed stone aggregates/Gravels. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR	26	cum	7,500.00	1,95,000.00
180	**RCC WORKS**				
181	**SUBSTRUCTURE**				
182	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUBSTRUCTURE INCLUDING CENTERING & SHUTTERING) e.g. foundations, raft, beams, pile caps, Retaining walls, counterforts, buttresses, pedestals, pipe sleepers, columns, suspended floors, staircases, landings, steps, brackets etc., including equipment/ machine foundations & pedestals viz. compressors, generators, etc. (including single pour concreting as specified on the drawing), applying cement wash on concrete surface (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering, etc., wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT)for all depths below and upto plinth level in any shape, position and thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	1220	cum	8,000.00	97,60,000.00
183	**SUPER STRUCTURE- EXCLUDING CONTROL ROOM BUILDING, GUARD ROOM & BOUNDARY WALL**				
184	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUPER STRUCTURE INCLUDING CENTERING & SHUTTERING in suspended floors, slabs, beams, columns, walls including counterforts, staircases, landings, steps, facias, fins, mouldings, gutters, shelves, window sills, canopies, lintels, girders, ducts, brackets, chajjas with drip moulds, pedestals, posts, struts, equipment/ machine foundations, ramps etc. (including single pour concreting as specified on the drawing), providing cement wash (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT) FOR ALL HEIGHTS UPTO & INCLUSIVE OF 20 m ABOVE PLINTH LEVEL in any shape, position, thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	70	cum	8,000.00	5,60,000.00
185	**CONTROL ROOM BUILDING (SUPERSTRUCTURE)**				
186	Construction of Control Room Building as per drawings and specification. Building work for all Superstructure works INCLUDING CENTERING & SHUTTERING , Reinforcement , masonry work, partition wall, Plastering & pointing, flooring, Floor finishes, Door & windows, rolling shutter, false ceiling, all finishes, painting, roof treatment complete in all respect etc.)	215	m2	30,000.00	64,50,000.00
187	**GUARD ROOM (SUPERSTRUCTURE)**				
188	Guard Room as per drawings and specification. Building work for all superstructure works including (Reinforcement, masonry work Plastering & pointing, flooring, Floor finishes, Door & windows, painting, roof treatment, all finishes, water supply and sanitary work complete in all respect etc.)	17	m2	24,000.00	4,08,000.00
189	**HYD Bars / MS Bars**				

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				Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**
M/s. AMP INFRA PVT. LTD.					
S. NO.	**WORK DESCRIPTION AND SUPPLY**	**UNIT**	**QTY**	**PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR**	
190	Supplying and placing in position HIGH YIELD STRENGTH DEFORMED STEEL BARS REINFORCEMENT of Grade Fe500D TMT conforming to IS:1786, for RCC work (excluding control room building & Guard room & boundary wall superstructure) including transporting the Steel, straightening, cleaning, decoiling, cutting, bending to required shapes and lengths as per details, binding with 18 SWG black soft annealed binding wire at every intersection, supplying and placing with proper cover blocks, supports, chairs, overlaps, welding, spacers, fanhooks etc. for all heights and depths etc. all complete as directed. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE	136	MT	75,000.00	1,02,00,000.00
191	**BOUNDARY WALL (SUPERSTRUCTURE)**				
192	compound wall (Superstructure)with RCC columns, beam, coping and Brick masonry (3.0m high) with an additional 0.6m high barbed wire & concertina coil (dia. 600mm) overhead on 'Y' shape structural steel frame. (SUPERSTRUCTURE) works included (masonry work, Plastering ,painting, CENTERING & SHUTTERING complete in all respect etc.)with gate and supplying, fixing and tensioning in position 2.5mm(12 gauge), 2 ply, 4 points, GI Barbed wire designation A-1 conforming to IS:278 in horizontal rows and cross diagonals for compound wall "Y" shaped overhang etc. with necessary GI staples, clips and pins, GI straining bolts and binding wire with all labour and materials etc. complete as per drawings, specifications and directions of Engineer-in-Charge.(The barbed wire shall be measured in linear length of the barbed wire actually fixed) Supplying, fabricating and fixing in position structural steel line posts, straining posts, struts for 'Y' shaped overhang etc. conforming to IS:2062 over brick/stone Masonry/ RCC compound walls/ columns, cutting to required size as per drawings and specifications, welding where necessary, embedding in position, holding to correct level and line, any auxiliary structure for dummy supports, drilling holes and painting as per painting specification attached with tender, cutting brick/rubble/concrete surfaces if necessary, grouting with M20 grade concrete including cost of grout with all labour and material etc. complete as per drawings, specifications and directions of Engineer-in-Charge.(All materials including cement shall be supplied by contractor).	285	RM	6,000.00	17,10,000.00
193	**STRUCTURAL STEEL WORKS (REFER TE SPECIFICATION)**				
194	Supplying, fabricating and erecting of structural steel and applying COATING (Post-erection/ Field) of approved quality and shade as per TE Specification or Job Specifications, wherever applicable) over the coat of shop primer already applied, including storage, surface preparation, degreasing, cleaning, drying, providing necessary arrangement for access, testing etc. including touching up of shop for steel structures (Including Wicket Gate, Main Gate and emergency gate, excluding ladders, spiral stairways & hand rails) at all location & levels, all complete as specified, for UNIT (INLAND) areas considering environment classification as INDUSTRIAL. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE. (Unit rate based on Structural steel weight)	19.5	MT	1,00,000.00	19,50,000.00
195	MISCELLANEOUS STEEL WORKS (REFER TE - SPECIFICATIONS)				
196	**MS Chequered Plates**				
197	Supplying, fabricating and erecting in position at all levels and locations bolted, screwed and/or welded M.S. CHEQUERED PLATES of any thickness in walkways, platforms, stairtreads or any other place as directed, etc. cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing, welding, preparation and submission of fabrication drawings and preparing the surfaces for painting and applying shop primer as per TE Specification after fabrication and return of unused/ scrap/ unserviceable chequered plates to Owner's store and material reconciliation etc. all complete as specified and directed	1.5	MT	1,00,000.00	1,50,000.00
198	**Anchor Bolts**				
199	Supplying, fabricating, fixing and keeping in position at all levels and locations THREADED ANCHOR BOLTS of all diameters and nomenclature including nuts, washers, anchor plates, pipe sleeves etc. in foundations, columns, pedestals, slabs, beams, walls etc. or any other place as directed including handling & transporting, straightening if required, turning from relevant size M.S. rounds to required diameter, threading, welding, providing necessary templates and auxiliary dummy structures, if any, necessary tying and welding with reinforcement, adjustment of shuttering & reinforcement/any other fixture, greasing exposed metal surfaces, covering bolts and packing the sleeves with jute cloth etc. all complete as specified and directed.(SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1	MT	1,00,000.00	1,00,000.00
200	**MS Metal Inserts**				
201	Supplying, transporting, storing, fabricating and fixing in position M.S. METAL INSERT (with lugs) of any shape made out of flats, plates, rolled sections, pipes etc. providing necessary templates, staging, cutting,straightening, if required, bolting, welding as required and embedding in position on both Plain and Reinforced Cement concrete members inclusive of adjusting shuttering & reinforcement/ any other fixture, welding where necessary, tying and holding to correct level, line and position, any auxiliary dummy structures to support the heavy inserts, painting exposed surfaces with a coat of primer as per TE Specification all complete for all depths and heights as specified and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	0.55	MT	1,00,000.00	55,000.00
202	**MS Grating**				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. AMP INFRA PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
203	Supplying, fabricating and erecting in position at all levels and locations ELECTROFORGED GALVANISED GRATING (purchased from approved manufacturer by the Contractor) conforming to TE STANDARD (in walkways, platforms, stair treads etc.) including cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing with manufacturer's supplied galvanised clamps, preparation and submission of fabrication drawings, all complete as specified and directed (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.7	MT	1,00,000.00	1,70,000.00
204	**Hand Railing 1000mm**				
205	Supplying, fabricating and fixing in position at all locations 1000mm high INCLINED HAND RAILING (for staircases) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade M.S. Tubes conforming to IS:1239 including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE SPEC. preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	RM	2,500.00	25,000.00
206	Supplying, fabricating and fixing in position at all locations 1000mm high HORIZONTAL HAND RAILING (for platforms, walkways, etc. or any other location as directed) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade MS Tubes conforming to IS:1239 and 100x5 MS Toe Plate confirming to IS:2062 (Grade A/B), including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE standard drawing & specification, preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	2,500.00	25,000.00
207	**CHAIN LINK FENCING**				
208	Supplying, fabricating and fixing G.I. chain link fencing with 3.5mm dia. wire, 50x50mm diamond mesh chain link fence fabric conforming to IS:2721 fixed to steel/RCC posts/struts above ground level, including supply of chain link fencing fabric in 1.9 metre wide rolls, stretcher bars, staples, etc. required for fixing the fencing, fixing of chain link fencing between straining posts, fixing of bottom of fencing in cement concrete 1:2:4 blocks and painting with synthetic enamel etc. , including supply and fixing line wires, complete as per drawings, specifications and directions of Engineer -in-Charge (All materials shall be supplied by Contractor). (The measurement of chain link fencing shall be on linear basis for 1.9 m wide fencing fabric)	10	M	4,500.00	45,000.00
209	**ROADS & FLEXIBLE PAVEMENT (UPTO WBM LAYER)**				
210	Preparation and consolidation of sub-grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth outside the property boundary in the un-disputed areas as directed by Engineer-In-Charge.	2400	M2	800.00	19,20,000.00
211	Supplying and laying of stone aggregate of 63mm down to 45mm size for WBM layer Base Course, tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 75mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding material of plasticity index upto 6%, including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts etc. complete as per drawings, specifications and directions of Engineer-in-Charge	7200	M2	800.00	57,60,000.00
212	**CONCRETE PAVEMENTS**				
213	Construction of dry lean cement concrete (DLC) sub base over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in- charge.	240	cum	1,200.00	2,88,000.00
214	Providing and laying Reinforced Cement Concrete with 20mm and down size graded crushed stone aggregates in flooring, pavements etc. including leaving pockets, if necessary, making recess/drains, laying in alternate panels, etc. for all depths including shuttering, tamping, curing, providing dowel bars with sleeves/tie bars etc where ever required at site. as specified in any shape, thickness, position and finishing the top surface smooth etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For RCC of M-30 grade concrete (all materials including cement but excluding cost of providing & fixing reinforcement and joint sealing shall be supplied by the contractor).	600	cum	5,500.00	33,00,000.00
215	Providing 20mm wide Expansion Joints in pavement slabs as per general technical specification including cleaning the joints of all loose material, filling with 20mm thick impregnated fibre boards for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved Joint Sealing Compound as per IS:1834 Type-B etc. all complete as per drawings, specifications and directions of Engineer-in-Charge	1100	M	4,500.00	49,50,000.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. AMP INFRA PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
216	Sealing joint around pedestal and column etc. 20mm wide x 150 mm deep including filling with 20mm thick impregnated fire board for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved joint sealing compound as per IS:1834 Type-B.	300	M	4,000.00	12,00,000.00
217	**RCC PIPE CULVERTS & ELECTRICAL ROAD CROSSINGS ETC. (as per drawing & TE specification)**				
218	Supplying and laying in position RCC pipes with collars conforming to IS:458 for pipe culverts, cable crossings etc. including cutting the pipe if necessary, lowering, laying in position to proper levels, slopes etc. caulking the joints with spun yarn soaked in neat cement slurry and finishing with cement mortar 1:2 (1 cement : 2 sand) curing etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For following Class and Internal PIPE DIA (MM). (Dia (internal) - 500 mm, Pipe Class - NP3)	20	M	1,200.00	24,000.00
219	**U/G AND A/G G.I. PIPELINE SYSTEM - WATER SERVICES tender specification**				
220	Supplying and laying mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ ASTM A105 (Galvanized) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, earthwork in excavation for trenches, valve pits, etc. in all types of soil excluding soft and hard rock including laying of pipes in trenches, joining the pipes and fittings with threaded connections, hydrostatic testing of the piping, backfilling the trenches with selected/approved earth fill material, cutting of roads wherever required, making good the road surface after laying, disposal of surplus earth within a lead of 500 m, etc. including supply of necessary fittings etc. complete as per specifications, drawings and directions of Engineer-in-Charge. For following Nom.Size in mm. (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	800.00	8,000.00
221	Supplying and laying above ground mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ASTM A 105 (GALVANISED) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, including laying of pipes on sleeper, walls, including erecting piping on columns, etc. for pump station, overhead tanks, etc. including joining the pipes and fittings with threaded connections, hydrostatic testing of the piping including supply of necessary fittings etc & pipe supports. complete as per specifications, drawings and instructions of Cement Supplied by contractor (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	800.00	8,000.00
222	**MISC. CIVIL AND STRUCTURAL WORKS FOR U/G PIPING AND OTHER CIVIL WORKS**				
223	Providing and laying brick masonry with locally available bricks of specified class (Brick of class lower than specified shall not be accepted) in cement mortar 1:4 (1 cement : 4 Coarse sand) in one or more brick thickness and in any shape in foundation and plinth for valve pits, drains, circular/square manholes, wing walls, etc. including providing recesses, openings, etc. including curing, finishing the joints flush below ground level and raking out joints in plinth with all labour and material, etc. complete as per drawings, specifications and direction of Engineering-Charge. For following Brick Class. All materials including cement supplied by the Contractor and. (Brick Class - 5)	418	cum	7,500.00	31,35,000.00
224	Providing 13mm thick average cement plaster in cement mortar 1:3 (1 cement: 3 sand) on brick walls/stone masonry/pitching or on concrete surfaces for manholes, valves pits, culverts, wing walls, etc. including cleaning and preparation of the surface, scaffolding, curing etc. for all depths and heights complete as per drawings specifications and direction of Engineer-in-Charge. All materials including cement supplied by the Contractor.	775	M2	7,500.00	58,12,500.00
225	**UNDERGROUND SEWER SYSTEM - RCC PIPES**				
226	Supplying and laying underground R.C.C. pipes sewers with socket and spigot ends conforming to IS:458 of approved make, to proper grade and alignment, including earthwork in excavation in all types of soil except soft and hard rock for pipe trenches, etc. including dewatering, shoring and shuttering if necessary, dressing of sides, leveling, grading and ramming of bottoms, cutting the R.C.C. pipes to required lengths, lowering the pipes, jointing, including connecting the pipes to manholes and grouting the pipe body with manhole wall using cement mortar 1:2 (1 cement : 2 sand), testing, draining of water and cleaning of pipe after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness , watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, including cutting of roads wherever required and making good the same, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit etc. complete for all depths as per drawings, specifications and instructions of Engineer-in-Charge.(All material shall be supplied by contractor) For following Pipe size (mm) and Class(The following pipe sizes are all internal diameter of the pipes)				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. AMP INFRA PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
227	(Dia (Internal) - 100 mm, Piping Material Class - NP2)	15	M	1,500.00	22,500.00
228	(Dia (Internal) - 150 mm, Piping Material Class - NP1)	15	M	2,000.00	30,000.00
229	(Dia (Internal) - 450 mm, Piping Material Class - NP2)	70	M	2,500.00	1,75,000.00
230	**UNDERGROUND SEWER SYSTEM-HDPE PIPES**				
231	UNDERGROUND SEWER SYSTEM-HDPE PIPES :- Supplying and laying HDPE pipes conforming to IS:4984 of approved make to proper grade and alignment, including earthwork in excavation for trenches etc. in all types of soil except soft and hard rock including dewatering till completion of subsequent works, shoring and strutting, if necessary, dressing the sides, leveling, grading and ramming the bottom, jointing the pipes using hot plates as per manufacturer's recommendation, lowering, providing and laying 1:5:10 (1 cement : 5 sand : 10 aggregate) plain cement concrete of minimum 100mm thickness on bottom and side of pipe as directed, connecting the pipes to manholes and grouting the pipes to manhole/valve chamber walls, including supplying and fixing the specials and fittings, such as bends, reducers, tees, elbows, caps etc. conforming to IS:8008 or fabricated from pipes as per specification, supplying and fixing of flanges, fixing of online valves, including fixing of bolts, nuts and gaskets etc. as per specifications, testing, draining of water and cleaning of pipes after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness, watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit, cutting of road wherever required, making good the same etc. complete for all depths as per drawings, specification and instruction of Engineer-in- Charge. For the following nominal diameter (mm) Pressure Rating(Kg/Cm2). (Dia (Internal) - 80 mm, Pressure Rating - 2.5 Kg/sqcm)	50	RM	2,000.00	1,00,000.00
232	**PLUMBING AND BUILDING DRAINAGE**				
233	Supplying and fixing approved quality Cast Iron soil/waste pipe conforming to IS:1729 below ground with necessary specials, bends such as Y-junction, T- junction (both single and double) including plugs, shoes, cowls, jointing with lead caulked joints and testing, cutting in floors, earth work in excavation, encasing the pipe in 50mm THK, PCC M20, backfilling and removal of surplus earth upto a lead of 50M etc. complete as per drawings, specifications and directions of Engineer-in-Complete				
234	100mm dia (All materials including cement supplied by contractor)	10	RM	2,500.00	25,000.00
235	80mm dia (All materials including cement supplied by contractor)	10	RM	2,000.00	20,000.00
236	Supplying and fixing gun metal globe valve conforming to IS:778, complete as per specifications and directions of Engineer-in-Charge.				
237	Dia - 50 mm	2	Nos	3,500.00	7,000.00
238	Constructing of brick masonry valve chamber in 1:4 Cement mortar(1 cement: 4 sand) with CI frame & cover fixed on M-20 grade cement concrete , necessary excavation, M-20 grade foundation concrete, 13mm thick 1:3 cement plaster on inside & all exposed surfaces, backfilling, removal of surplus earth for all leads within the complex limit etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge. For following Valve size and Brick Class (All materials including Cement supplied by contractor)				
239	Dia - 50 mm, Brick Class - 5)	2	EACH	7,500.00	15,000.00
240	Providing and fixing approved stone ware 100mmx100mm dia. gully trap as per tender specification, including grating with CI frame and cover 300mmx300mm including brick masonry (brick class shall be as mentioned below) chamber in 1:4 cement mortar(1 cement: 4 sand) on M-20 grade cement concrete foundation, plastered inside and outside surfaces with 1:3 cement mortar (1 cement: 3 sand) with 13mm average thickness including providing and fixing light duty CI frame and cover, painting CI frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat, earth work in excavation, backfilling, removal of surplus earth, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry etc. all complete as per drawings, specifications and directions of Engineer-in-Charge				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. AMP INFRA PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
241	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	8,500.00	17,000.00
242	Construction as per(Design basis & general technical specification) of brick masonry (brick class shall be as mentioned below) inspection chambers/manholes of 750mmx750mm internal size 1000mm deep(Max.) in cement mortar 1:4 (1 cement: 4 sand) with CI frame and cover 500mm clear dia, (circular Medium duty of grade MD-10) conforming to IS:1726 fixed on RCC slab of M-30 grade, necessary excavation, supplying, fixing 4 Nos. 16mm dia M.S. rungs, M-20 grade foundation concrete 1:3 cement mortar(1 cement: 3 sand) plastering of 13mm average thickness for inside & 16mm avg. thickness for outside exposed surfaces, backfilling, disposal of surplus earth upto a lead of 100M, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry, painting the C.I.frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat etc. all complete as per drawings, specifications and directions of Engineer-in-Charge.				
243	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	7,500.00	15,000.00
244	Construction, supplying, installation, testing and commissioning of septic tank as per standards and IS:2470 Part-I , with all necessary accessories like inlet, outlet vent pipes, manhole covers, rungs etc. including earthwork in excavation in all type of soil except soft and hard rock, backfilling and disposal of surplus earth for all leads etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge				
245	All material including cement supplied by contractor for (Users - 10 NOS)	1	Nos	1,50,000.00	1,50,000.00
246	**MISCELLANEOUS ITEMS**				
247	Supplying and fixing in position entrance gate in complex boundary wall fencing manufactured out of steel frame work and square MS bars of 20 mm at 100 c/c and horizontal name plate band at lock rail level suitably hinged with box type steel post embedded in cement concrete i.e. providing the tension bar for smooth operation and locking arrangement etc. complete as per tender specification, including painting with two coats of anti-corrosive paint and two coats of approved aluminium/synthetic enamel paint etc. complete as per drawings, specifications and directions of Engineer-in-Charge.				
248	4.0M clear opening width of gate in two panels.	3	Nos	70,000.00	2,10,000.00
249	Supplying & Laying interlocking Paver Blocks for roads, footpaths and any other place etc. including providing 50 mm thick sand filling below Paver Blocks including compaction of sand layer, filling the joints by dry sand, providing precast kerb stone of PCC M-20 at edges, including preparation of compacted sub-grade etc. all complete as per drawing, standard and directions of Engineer-in-Charge. (All material including cement supplied by contractor, paver blocks shall confirm to IS: 15658. cloour and shape of paver block shall be as per owner requirements for following thickness of paver blocks				
250	(Thickness - 60 mm)	385	M2	1,200.00	4,62,000.00
251	Supply and installation on terrace, high density polyethylene drinking water circular tank as per IS:12701 and ISI marked including supply and installation of all fittings, cover with suitable locking arrangement, float valve, making necessary holes for inlet, outlet and overflow connection and vent pipe etc. and the base supports for tank including supply of all necessary material all complete as per specifications and directions of Engineer-in-charge. (Sintex or equivalent having valid ISI license) for following capacities.				
252	capacity - 500 litre	2	Nos	5,000.00	10,000.00
253	Supplying, installation, testing and commissioning of Upflow Anaerobic Filter with bleaching tank as per TE Std. Drawing with all necessary accessories like, Upstream inlet CI piping from septic tank, Downstream outlet RCC NP2 class piping up to surface storm water drains, CI pipes for filter chamber, CI valve, RCC pre-cast pit covers, steps, perforated pre-cast slabs etc., inlet chamber, Filter chamber, deluding chamber including earthwork in excavation in all type of soil including soft rock, backfilling with murrum or approved soil arranged by the contractor, disposal of surplus earth etc. complete as per drawings, specification and direction of Engineering-Charge (All materials including cement shall be supplied by the contractor, Brick Class lower than 5.0 shall not be used). - Upto 10 Nos. user	1	Nos	1,50,000.00	1,50,000.00
254	**DEMOLISHING AND DISMANTLING**				
255	**Brickwork**				

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256	Demolishing BRICKWORK (taking all necessary safety precautions) for all depths below plinth level including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	3,500.00	35,000.00
257	Demolishing BRICKWORK (taking all necessary safety precautions) for all heights above plinth level including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	3,500.00	35,000.00
258	**RCC**				
259	Demolishing RCC WORK (taking all necessary safety precautions) for all depths below plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	4,500.00	45,000.00
260	Demolishing RCC WORK (taking all necessary safety precautions) for all heights above plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	4,500.00	45,000.00
261	**PCC**				
262	Demolishing PLAIN CEMENT CONCRETE work (taking all necessary safety precautions) for all depths below plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc. disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation and backfilling shall be paid separately under relevant items)	10	cum	3,500.00	35,000.00
263	**MISCELLANEOUS ITEMS (REFER TE SPECIFICATION)**				
264	Sand Filling				
265	Supplying and filling approved SAND of specified quality under floors, in foundations, plinths, tank foundations etc. for all depths and heights including cost of sand,royalties,transportation to site for all leads and lifts, including loading, unloading, spreading in layers of loose thickness not exceeding 150 mm,watering,ramming,compacting with mechanical compactors and/or other equipment to the specified levels to achieve 85% relative density as per IS:2720 Part XIV,including preparation of subgrade to the required slope, providing testing apparatus and testing the degree of consolidation all complete as per drawings, specifications and direction of Engineer-in-charge. The rates shall be inclusive of the cost of all labour,material,equipments etc. all complete .	120	cum	400.00	48,000.00
266	**SAND GRAVEL MIX**				
267	Supplying and filling sand gravel mix (1:1) with approved aggregate below road, RCC pavement, manholes, pits, foundations, bedding of UG piping etc. in layers of 150 mm loose thickness (maximum) including watering, ramming, rolling, compacting to achieve 85% relative density as per IS 2720 Part-XIV, quarrying, royalties, transportation, handling, etc. all complete as per drawings, specifications and directions of Engineer-in- Charge. (The rate shall be inclusive of the cost of all labour, material, equipment etc. all complete)	122	cum	2,500.00	3,05,000.00
268	**GROUTING WITH NON-SHRINKABLE COMPOUND**				
269	Providing and laying manually or by pumping at all positions a ready mix non-shrink cementitious grout of compressive strength specified below for specified works e.g. pipe support, base grouting of rotating equipment and other installation complete in all respects as per scope of work, detailed construction drawings , technical specifications and directions of the Engineer-In-Charge.				
270	Having compressive strength of 30 N/mm2 , Per bag of 25 Kg	100	Bags	1,500.00	1,50,000.00
271	Having compressive strength 45 N/mm2 , Per bag of 25 Kg	20	Bags	2,500.00	50,000.00

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272	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains, SS trench of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.	10	SQM	6,000.00	60,000.00
273	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, leve and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	17	M3	6,000.00	1,02,000.00
274	Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M-25, of size 1000x450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos. cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of the Engineer-In-Charge.	630	EACH	2,500.00	15,75,000.00
275	**Borewell and recharge well**				
276	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job all complete as per drawing, direction of Engineer -in-charge, in all types of soil :	130	M	1,800.00	2,34,000.00
277	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge.	130	M	1,000.00	1,30,000.00
278	Providing and fixing Bail plug/ Bottom plug of required diameter to the bottom of pipe assembly of tubewell as per IS:2800 (Part-I). :150mm dia	3	EACH	500.00	1,500.00
279	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	1,100.00	5,500.00
280	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	1,500.00	7,500.00
281	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	2,500.00	12,500.00
282	Gravel packing in tubewell construction in accordance with IS:4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of the Engineer-In-Charge.	3	M3	1,500.00	4,500.00
283	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS:4270, of reputed & approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size dia having minimum wall thickness 5.00 mm	5	M	2,500.00	12,500.00
284	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	60	M	1,000.00	60,000.00
285	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/ 3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS:8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	25	M	2,500.00	62,500.00
286	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of 150 mm diameter	1	Nos	500.00	500.00
287	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS:2800 (Part-I), including necessary bolts & nuts of required size complete 150 mm diameter.	1	Nos	2,000.00	2,000.00

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288	Supply, Installation and commissioning of 1.5HP Borwell Submersible Pump	1	EACH	35,000.00	35,000.00
289	Supply and Installation of 3Cx10Sqmm Copper Flat Cable	200	M	700.00	1,40,000.00
290	**LANDSCAPING**				
291	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment).	810	M3	500.00	4,05,000.00
292	Fine dressing of the ground.	2700	M2	300.00	8,10,000.00
293	Providing & laying Selection no. 1 grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden and than rolling the surface with light roller make the surface smoothen and light watering the same maintenance for 30 days or more till the grass establish properly,as per direction of officer in charge	2700	M2	1,200.00	32,40,000.00
294	Conducting topographical ground/land survey in the specified area as shown in the tender drawings by conventional/GPS or any other standard method, covering details of physical features like Rivers, Nallahs, Lakes, Ponds, wells, pits, Forest, Trees, Roads, culverts, transmission lines, telegraph/ telephone and electric poles, underground or any other services, cross drainage works including cross sectional details of nallah etc. including establishing high flood level with source of information, identification of any monument, historical structure, wild life sanctuary in the vicinity, storm water disposal point with levels, cross-section details of nallah, recording spot levels, top level of nearest state highway or National Highway, including providing in tabulation girth wise no. of trees etc as specified, plotting and developing topographical contour maps, showing true north including establishing survey reference stations, key plan etc. including all equipment's, instruments, personnel's, clearing of bushes as per requirement for intervisibility to carry out survey work etc. , complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of drawings/map and supply of electronic files. Note: Survey work shall be carried out by survey agency approved by Contractor and sample spot witness of levels cordinates by PMC, and shall be submitted to PMC/Owner for review.Survey drawing will be provided in A0 size with clear visibility of all the spots/levels/ contoure and Bench marks. Permanaet bench mark will be stabished at site in a 450x450 mm size 600mm high bick masonry piller.	6950	M2	500.00	34,75,000.00
295	**GEO TECHNICAL INVESTIGATION (Z/02/0022)**				
296	Conducting soil investigation with boring including all field tests and laboratory tests, mobilization and demobilization of equipments & personnel etc. for soil investigation for each borehole location. complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of Reports & recommendations and supply of electronic files.	5	Nos	40,000.00	2,00,000.00
297	**ANTI-TERMITE TREATMENT**				
298	Supplying chemical emulsion in sealed containers including delivery as specified in the Technical Specifications.				
299	**Chlorpyriphos/ Lindane emulsifiable concentrate of 20%**	200	LITRE	350.00	70,000.00
300	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
301	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc. as per Techinal specifications and direction of engineering in charge: With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	80	METRE	250.00	20,000.00
302	Treatment of soil under floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the floor:				
303	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	250	SQM	250.00	62,500.00
304	Supply and installation 60mm dia GI pipe for column support of gate	15	M	800.00	12,000.00
305	Supply and installation 100mm dia MS pipe	15	M	800.00	)00.00

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306	Supply and installation 50mm dia MS pipe	15	M	800.00	12,000.00
307	Supply and installation of U-PVC pipes (working pressure 4 kg / cm²) Single socketed pipe 75 mm dia for weep holes	300	M	1,200.00	3,60,000.00
308	**Sub-Total Section C**				**7,94,56,250.00**
309	**SECTION-D [CATHODIC PROTECTION WORKS]**				
310	**Cathodic Protection system**				
311	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning & Monitoring of the temporary cathodic protection [TCP] system using galvanic anodes to protect the external surface of the pipeline against soil-side corrosion for minimum 2 year or till commissioning of permanent CP system whichever is later . All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard drawings and vendor list as attached with this tender and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	60,00,000.00	60,00,000.00
312	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning of permanent cathodic protection system for 40 years. The scope of work also includes post commssoning surveys and repair of coating/ rectification of cathodic protection system based on the post commissioning surveys. In additon to the same, AC Interference study on the pipelines to be performed and mitigation measures takes to the satisfaction of Owner/ CONSULTANT. All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard and vendor list attached and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	40,00,000.00	40,00,000.00
313	**Sub-Total Section D**				**1,00,00,000.00**
314	**SECTION-E [ELECTRICAL WORKS]**				
315	**ELECTRICAL**				
316	**SWITCH BOARDS / UPS SYSTEM/ PANEL**				
317	Supply , Installation, testing and commissioning of LT Switch-boards, AC UPS system with UPS Distribution board & Ni-Cd Battery banks , distribution boards, cubicles with electrical equipment, misc. electrical panels etc., including transportation from store/yard to site at the place of installation, unpacking, assembly, including mounting and wiring of loose parts supplied by equipment vendor, interconnection of shipping sections and requisite inter-panel wiring between shipping sections, including supply of all wiring materials, installation on foundations or fixing to wall or steel structures, aligning, levelling, grouting, including all labour and materials, as per approved drawings, specifications of this tender and directions of Engineer-in-Charge.				
318	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted MEDB	2	Nos	4,50,000.00	9,00,000.00
319	Supply , erection , termination , earthing and commissioning of wall mounted OLDB as per single line diagram of DT stations	1	Nos	2,50,000.00	2,50,000.00
320	Supply , erection , termination , earthing and commissioning of wall mounted ILDB as per Single line diagram of DT stations	1	Nos	2,50,000.00	2,50,000.00
321	Supply , erection , termination, earthing and commissioning of wall mounted SSDB as per Single line diagram of DT stations	1	Nos	2,50,000.00	2,50,000.00
322	Supply , erection , termination , earthing and commissioning of wall mounted AC DB as per Single line diagram of DT stations	1	Nos	2,50,000.00	2,50,000.00
323	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 6 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of DT stations	1	SET	4,50,000.00	4,50,000.00
324	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for DT stations.	1	SET	5,00,000.00	5,00,000.00

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325	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 1 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of RT stations	1	SET	2,50,000.00	2,50,000.00
326	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for RT stations.	1	SET	3,00,000.00	3,00,000.00
327	Supply , erection , and commissioning of 415 V SFU as per Single line diagram of DT stations including liasioning with SEB as per Tender specification and direction of Engineer- In charge.	1	Nos	2,00,000.00	2,00,000.00
328	**POWER AND CONTROL CABLE**				
329	Supply , laying , termination , erection and testing of 1.1 KV Power and control FRLS PVC Outersheath, XLPE insulated, armored Cables . Outdoor cable will be laid in buried cable trench and in Indoor cable will be laid in Cable trench by provision of Cable tray and supports inside the trench as per PTS - Electrical package P.017110 G 11077 E002				
330	3.5C x 95 sqmm AL FRLS XLPE	300	M	1,500.00	4,50,000.00
331	3.5C x 70 sqmm AL FRLS XLPE	100	M	1,200.00	1,20,000.00
332	3.5C x 50 sqmm AL FRLS XLPE	50	M	540.00	27,000.00
333	3.5C x 25 sqmm AL FRLS XLPE	100	M	**350.00**	35,000.00
334	4C x 16 sqmm CU FRLS XLPE	100	M	1,000.00	1,00,000.00
335	3C x 2.5 sqmm CU FRLS XLPE	170	M	600.00	1,02,000.00
336	3C x 6 sqmm CU FRLS XLPE	250	M	650.00	1,62,500.00
337	4C x 6 sqmm CU FRLS XLPE	350	M	500.00	1,75,000.00
338	2C x 6 sq.mm CU FRLS XLPE	100	M	400.00	40,000.00
339	2.5 sqmm Cu. Wire	1800	M	210.00	3,78,000.00
340	6 sqmm Cu. Wire	600	M	250.00	1,50,000.00
341	**Earthing & Lightning**				
342	Supply , Installation , testing and comissioning of GI Earth electrodes & Cu plate type earth pit complete with earth pit as per IS 3043, PTS-Electrical package and all necessary material including exacavation of earth pit , filling with charcol and salt , back filling, brick work , connections including all labour and materials as approved drawing and specification of this tender and direction of Engineer-In charge.				
343	**GI Earth Electrodes**				
344	65mm dia x 3000 mm L GI pipe electrode type Earth pit	15	Nos	20,000.00	3,00,000.00
345	**Cu plate Earth Electrode**				

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346	600x600x3mm Cu plate type Earth pit	8	Nos	30,000.00	2,40,000.00
347	**Earth strip and wire**				
348	50x 6 mm GI Flat strip	850	M	280.00	2,38,000.00
349	25 x 6 mm Cu Flat strip	50	M	280.00	14,000.00
350	2.5 Sqmm Cu wire	250	M	200.00	50,000.00
351	25 x 6 mm GI Flat strip	200	M	200.00	40,000.00
352	10 Sq.mm earthing cable	250	M	220.00	55,000.00
353	GI Earth Bus 50x 6 Sq.mm with all installation assesories	3	Nos	4,000.00	12,000.00
354	Cu. Earth Bus 50x 6 Sq.mm with all installation assesories (in control room)	4	Nos	4,000.00	16,000.00
355	25x3 mm GI Flat for Lightning as well as down conductors for DT station as per overall earthing layout and GGNG-E-20713-3007	80	M	2,000.00	1,60,000.00
356	Other lightning assesories like 20mm dia copper rod, hollosphere ,200x200x6mm ms plate ,anchor/fastner ,test links for DT station as per overall earthing layout and GGNG-E-20713-3007	1	LOT	1,50,000.00	1,50,000.00
357	**OUTDOOR Lighting**				
358	Supply , erection , Testing & commissioning of Outdoor area lighting system including with supply of flameproof / weather proof light fixture , pole , junction box and earthing including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender & Overall outdoor lighting layout of DT & RT station and directions of Engineer- In charge.				
359	100W FLP LED Fixture & FLP Junction box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	4	Nos	1,50,000.00	6,00,000.00
360	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	2	Nos	1,50,000.00	3,00,000.00
361	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in RT Stations.	7	Nos	1,50,000.00	10,50,000.00
362	1x160W FLOOD LED Fixture with weather proof junction box & 9 mtr high pole with all assesories for open area	9	Nos	20,000.00	1,80,000.00
363	1x70 W Solar type Street LED Fixture with weather proof junction box, VRLA Battery (72 hrs backup time) & 9 mtr high pole for street lighting	6	Nos	1,50,000.00	9,00,000.00
364	1x27 W Post Top Lantran LED Fixture for Gate with weather proof junction box for Gate lamp	2	Nos	35,000.00	70,000.00
365	1x36 W LED industrial fixture suitable to building parapet /wall with all assesories like weather proof junction box/clamp/reducer/	2	Nos	35,000.00	70,000.00
366	**INDOOR Lighting**				
367	Supply, erection, Testing & commissioning of Indoor building area lighting system including with supply of light fixture, point wiring including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender and directions of Engineer- In charge.				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
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368	2x20 W LED recessed decorative fixture for control room	5	Nos	8,000.00	40,000.00
369	2x20W LED Industrial Fixture for Electrical room	2	Nos	8,000.00	16,000.00
370	1x40W LED Flameproof Fixture for Battery room	1	Nos	8,000.00	8,000.00
371	2x18W LED Industrial Fixture for Varanda/Toilet/ water cooler area/ Guard room	6	Nos	8,000.00	48,000.00
372	1x36W LED Industrial Fixture	4	Nos	8,000.00	32,000.00
373	2x20 W LED recessed decorative fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) control room.	2	Nos	8,000.00	16,000.00
374	2x20W LED Industrial Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Electrical room	2	Nos	8,000.00	16,000.00
375	1x40W LED Flameproof Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Battery room	1	Nos	8,000.00	8,000.00
376	**Switch socket**				
377	Supply and Installation of single/ three phase Switch socket as per Indoor Illumination layout for DT & RT and PTS-Electrical Package and directions of Engineer-In Charge				
378	5/15A surface type switch socket (1 Ph)	7	Nos	2500	17,500.00
379	5A flush type switch socket (1 Ph)	4	Nos	1,500.00	6,000.00
380	16A Switch socket (I Ph)	3	Nos	2,500.00	7,500.00
381	20A Switch socket for AC (1 Ph)	4	Nos	2,500.00	10,000.00
382	Flame proof Junction box for Exhaust fan in Battery room	2	Nos	8,000.00	16,000.00
383	32A Switch socket for welding receptacles (3 Ph)	1	Nos	8,000.00	8,000.00
384	Modular switch board	12	Nos	1,500.00	18,000.00
385	**FANS and Exhaust FAN**				
386	Supply ,Installation and testing of Ceiling Fan and Exhaust fan with louvers including all labours and materials as per Indoor Illumination layout for DT and PTS-Electrical Package and directions of Engineer-In Charge				
387	Ceiling Fan 230V AC 1200 mm sweep	3	Nos	3,500.00	10,500.00
388	450 mm FLP Exhaust Fan for Battery room	2	Nos	6,500.00	13,000.00
389	200 mm Exhaust Fan for Toilet	1	Nos	6,000.00	6,000.00

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390	300 mm Exhaust Fan for Electrical room/ CO2 room	3	Nos	6,000.00	18,000.00
391	**Air conditioning unit**				
392	Supply ,Installation and testing of Five star 1.5 Ton Split AC with outdoor compressor unit including all labours and materials as per Typical Indoor Illumination layout for DT and directions of Engineer-In Charge				
393	Split Air condition Five star 1.5 Ton	4	Nos	70,000.00	2,80,000.00
394	**Hardware and other Accessories**				
395	Supply and Installation of Hardware and other accessories including all labours and materials as per Tender specification PTS-Electrical Package P.017110 G 11077 E002 and directions of Engineer-In Charge				
396	Rubber mat	15	M	2,500.00	37,500.00
397	Rubber hand gloves	1	PAIR	2,500.00	2,500.00
398	Warning Marker	1	Nos	3,500.00	3,500.00
399	PVC Conduit with bend ,tee and other required assesories	1	LOT	3,500.00	3,500.00
400	CAUTION Board & Sock treatment chart	1	Nos	2,500.00	2,500.00
401	Cable route marker as per Standard drawing TE-IN-STD-G-0327	1	LS	10,000.00	10,000.00
402	Fire extingusher and SAND Bucket with Stand	1	SET	10,000.00	10,000.00
403	Ladder type Cable tray - hot dip Galvanized Prefabricated 450 mm wide	55	MTR	2,000.00	1,10,000.00
404	Perforated type Cable tray hot dip Galvanized Prefabricated 450 mm wide	35	MTR.	2,000.00	70,000.00
405	**Cable Glands**				
406	Cable Glands : Flame proof IIA/IIB double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
407	Cables with upto OD 20 mm & above OD 20 mm as per Single line diagram of DT & RT station	1	LOT	5,000.00	5,000.00
408	Cable Glands : Weather proof double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
409	Cables with upto OD 20 mm to 40 mm as per Single line diagram of DT & RT station	1	LOT	5,000.00	5,000.00
410	**Sub-Total Section E**				**1,06,38,500.00**
411	**SECTION-F [INSTRUMENTATION WORKS]**				

Prepared Checked Approved

TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. AMP INFRA PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
412	**INSTRUMENTATION**				
413	**SUPPLY**				
414	Supply of Pressure Transmitter along with 2 valve manifolds with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	35,000.00	1,75,000.00
415	Supply of Pressure gauge including high range along with 2 valve manifolds with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	18	Nos	25,000.00	4,50,000.00
416	Supply of Pressure gauge including Low Range along with 2 valve manifolds, gauge saver with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	3	Nos	25,000.00	75,000.00
417	Supply of temperature element (RTD) along with flanged thermowell mounted for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	20,000.00	1,00,000.00
418	Supply of Temperature Transmitter with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	7	Nos	35,000.00	2,45,000.00
419	Supply of skin type temperature element (RTD) for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I003), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	2	Nos	35,000.00	70,000.00
420	Supply of Local control panel with all accessories as per Data sheet (P.017110 G 11087 I011), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, SAT of local control panel,supports/ frame fabrication, earthing and screwing plug for unused entries, painting and integration with RTU. Termination of all Other panel SCADA hard wired signal including RS-485 signals through LCP for RTU/SCADA by Bidder. 1. Digital Barriers 2. Analog Barries 3. Relays 4. three poisition selector switch 5. LED indication lamps 6. Push buttons 7. terminal blocks 8. internal wiring 9. MCBs 10. Door switches 11. cooling Fan 12. LED lights	2	Nos	15,00,000.00	30,00,000.00
421	Supply of Ex-proof junction box with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, iincluding Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.	4	Nos	25,000.00	1,00,000.00
422	Supply of Corrosion Monitoring system with corrosion coupon, Corrosion probe, transmitter and digital indicator (mounted in LCP) as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. AMP INFRA PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
423	Corrosion coupon along with accessories.	2	Nos	18,000.00	36,000.00
424	Corrosion probe along with transmitter, digital indicator, barriers and accessories.	2	Nos	35,000.00	70,000.00
425	Supply of Conventional Type Microprocessor based fire detection system along with smoke detector, heat detector, cabinet, manual call point, Independent 24 Hrs battery backup with 15 min in alarm state, repeater panel and Electrical Operated Siren, exit signs and cables fromsensor ,MCP, siren, hooter to controller as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
426	Controller along with cabinet along with cabling	1	Nos	3,50,000.00	3,50,000.00
427	Multisensor (smoke & heat)	10	Nos	25,000.00	2,50,000.00
428	WP IP 65 Manual call points	6	Nos	10,000.00	60,000.00
429	Ex Proof and WP IP 65 Manual call point	1	Nos	25,000.00	25,000.00
430	WP Hooter & Flasher	1	Nos	25,000.00	25,000.00
431	Repeater panel	1	Nos	1,50,000.00	1,50,000.00
432	Exist sign	6	Nos	8,000.00	48,000.00
433	Electrical siren Exd	1	Nos	35,000.00	35,000.00
434	24 Hrs battery backup	1	Nos	35,000.00	35,000.00
435	Supply of Conventional type gas detection system along with controller, ex proof point gas detectors, beacon hooter, flasher, , cabinet, portable gas detector, calibration kit, alignment kit as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
436	Controller with cabinet	1	Nos	15,00,000.00	15,00,000.00
437	Point gas detectors	12	Nos	18,000.00	2,16,000.00
438	Panel Mounted hooter	2	Nos	25,000.00	50,000.00
439	Dual tone Hooter & Beacon Ex"d" with reset push button	2	Nos	25,000.00	50,000.00
440	Portable gas detecotrs	1	Nos	1,20,000.00	1,20,000.00
441	Calibration kit	1	Nos	75,000.00	75,000.00
442	Ex d Junction Box	2	Nos	22,000.00	44,000.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. AMP INFRA PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
443	Supply of Universal type Hand Held Configurators for transmitters with carrying case, rechargeable batteries (one working and one standby), and battery charger as per Data sheet,PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work	1	Nos	6,50,000.00	6,50,000.00
444	Supply of Instrumentation signal cable, control cable, communication cable/LAN cable, Power cables along with all sizes cable glands (WP & Exd), PVC hood, lug, ferrule, etc including Cable laying (buried as well as tray) along with termination, glanding, meggering and loop checking including supply of ferrule, lugs, cable tie, cable clamp, cable marker etc. as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.				

Prepared Checked Approved

TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. AMP INFRA PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
445	1Px 1.5mm2	500	MTRS	120.00	60,000.00
446	12Px 0.5mm2	900	MTRS	300.00	2,70,000.00
447	1Qx1.5mm2	30	MTRS	300.00	9,000.00
448	12Tx1.5mm2	200	MTRS	1,200.00	2,40,000.00
449	1Tx1.5mm2	180	MTRS	300.00	54,000.00
450	6Px0.5mm2	200	MTRS	350.00	70,000.00
451	2Px1.5mm2	200	MTRS	3,500.00	7,00,000.00
452	Cat 5 (LAN)	160	MTRS	500.00	80,000.00
453	3C x 2.5mm2	240	MTRS	400.00	96,000.00
454	Supply & laying of Instruments cable tray with tray cover (Branch Cable tray (50mm x 50mm), Main cable tray 900 mm, cable tray 300mm, cable tray 150 mm.) as per requirement, instruments/ PGD, CCTV/ mounting poles, instrument protection sun sheds, angles, channels, MS plates & all the erection materials and as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including installation of support, cable clamping, installation of tray cover and support painting.	1	LS	2,50,000.00	2,50,000.00
455	Supply , installation & laying of tubes and fittings as per requirement and as per PTS-Instrumentation with appendices and Scope of Work C&I. SS 316L TEE (1/2", Class 3000#, Screwed, NPTF, Seamless) ,SS316L GLOBE/BALL VALVE (1/2", Class 800#, Screwed, NPTF, Seamless), SS316L PLUG (1/2", Screwed, NPTM, Hex head, class 3000#), SS316L PIPE NIPPLE (½" NPTM, seamless, schedule #160) Length of the pipe nipple as per requirement, SS316L MALE CONNECTOR (1/2" OD x 1/2" NPTM), SS316L FEMALE CONNECTOR (1/2"OD x 1/2" NPTF), SS316L UNION (1/2" OD), SS316L TUBE (1/2" OD x 0.065" WT), SS316L TUBE (1/4" OD x 0.035" WT)	1	LS	2,50,000.00	2,50,000.00
456	Supply of mandatory spares as per Mandatory Spare **(P.017110 G 11075 I001)**	1	LS	2,50,000.00	2,50,000.00
457	**AT Bokaro** Installation of metering skids, metering cabinet under the supervision of skid supplier, cable laying and terminal of cable from skid junction box to metering system cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	1,50,000.00	1,50,000.00
458	**AT Bokaro** Installation of gas chromatograph skid, analyser & controller cabinet under the supervision of skid supplier, cable laying and terminal of cable from analyser cabinet to controller cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	1,50,000.00	1,50,000.00
459	**AT Bokaro** Installation of H2S & Moisture analyser skids, cabinet under the supervision of skid supplier, laying and terminal of cable from skid field mounted cabinet to LCP/RTU. Including supply of all the required erection, fabrication and civil materials.	1	LS	1,50,000.00	1,50,000.00
460	**Sub-Total Section F**				**1,07,83,000.00**
461	**SECTION-G [TELECOM WORKS]**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. AMP INFRA PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
462	**AT SV 01** Supply of Input out puts cards in existing Remote Terminal unit along with internal wiring at site and configruation of new parameters in existing RTU as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, Installation of Input out puts cards in existing Remote Terminal unit along with internal wiring at site, interfacing with LCP and configuration of new parameters in existing RTU, as per Scope of Work at SV 01				
463	32 channels digital input cards	1	Nos	1,00,000.00	1,00,000.00
464	16 Channel digital output cards	1	Nos	50,000.00	50,000.00
465	12 channel Analog input cards	1	Nos	50,000.00	50,000.00
466	Supply Telecommunication system, SDH equipment STM-4 Based SDH Cabinet of (2000H x 800W x 800W along with 100 mm base frame) as per below configuration: - 2*STM-4 + 2*STM-1 + 8FE ports as per PTS-Telecommunication system (P.017110 G 11077 I002), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including erection, testing, integration with existing NMS at Noida, Commissioning and integration with existing telecom system at SV 01 additional SFP of L4.2 for SV 01 connectivity	1	Nos	2,50,000.00	2,50,000.00
467	Supply of CCTV-IP based Fixed colour camera and PTZ colour camera along with power cable, communication cable at each station as per PTS-Telecommunication system (P.017110 G 11077 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work., including erection, testing, integration with existing VMS at Noida, Commissioning and integration with existing telecom system at SV 01				
468	Fixed Camera WP IP65	1	Nos	1,50,000.00	1,50,000.00
469	PTZ camera WP IP65	1	Nos	1,75,000.00	1,75,000.00
470	Supply of one Analog phones control room, one number in guard room and one number WP IP66 in field safe area as per PTS-Telecommunication system (P.017110 G 11077 I002) , PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work				
471	Analog Phone	2	Nos	2,500.00	5,000.00
472	Analog Phone Ex Proof WP IP 65	1	Nos	65,000.00	65,000.00
473	FXO cards	1	Nos	15,000.00	15,000.00
474	FXS	1	Nos	32,000.00	32,000.00
475	Five pair armoured telephone cable, size 0.5mm2	100	MTR	250.00	25,000.00
476	**AT Bokaro** Free issue RTU by GAIL: Transportation from Gail store to site location, installation, cabling from LCP to RTU, commissioning etc. Erection, installation of RTU inside the station control room including supply of all the required erection materials, fabrication and civil works	1	LS	5,00,000.00	5,00,000.00
477	**Sub-Total Section G**				**14,17,000.00**
478	Total of Section A + B + C + D + E + F + G				**22,28,40,120.00**
479	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Total of Section A + B + C + D + E + F + G above	18	percentage		4,01,11,221.60

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. AMP INFRA PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
480	Rate of Extended Stay Compensation per month beyond the time schedule and grace period mentioned in Bidding document for reasons solely attribute to Owner (exclusive of GST) Notes:- 1;- Extended Stay Compensation shall be loaded on the quoted price as per evaluation methodology. 2;- In case, no rate for extended stay compensation is stipulated, it will be considered that extended stay compensation is not required by the Bidder and the rates quoted by them shall be valid till completion of works in all respects.	1	Nos		0.00
481	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Extended Stay Compensation at Sl. No. 480 above	18	percentage		0.00
	Grand Total				26,29,51,341.60

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	ANNEXURE - I **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**			**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL**	**Rev.00** **Date-11.02.2022**
				Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**
M/s. CORRTECH ENERGY LIMITED					
S. NO.	**WORK DESCRIPTION AND SUPPLY**	**UNIT**	**QTY**	**PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR**	
				UNIT RATE	**TOTAL RATE**
1	**SECTION-A (MAIN LINE WORKS)**				
2	**CH.0.00 KM to CH.23.436 KM**				
3	**MAINLINE, PIPING AND MECHNICAL**				
4	**PIPELINE LAYING / INSTALLATION** Laying/ installation of coated line pipe, associated fittings and accessories, etc. as per specifications, drawings, other provisions of Contract and instructions of Engineer-in-Charge, including but not limited to carrying out the following: "Receiving and taking-over", handling, loading, transportation and unloading of Owner supplied coated and bare line pipes and other Free Issue Materials from Contractor's own stock-yard to Work site including stringing on the pipeline Right-of-Use (ROU), Arrangement of all additional land required for Contractor's storage, Performing the additional survey wherein survey data is not sufficient in the opinion of Contractor, arrangement of working RoU if RoU width is not sufficient for equipment/ vehicle movement etc., access for construction (other than Owner provided ROU; Developing necessary access way to the worksite, including earth filling, levelling, etc.; supply of all materials (except Owner supplied materials), supply of all materials, consumables, equipment, labour, etc.; fabrication, Staking and installation of construction markers, clearing, grubbing, grading (as required) of Right of Use; clearing and grading of ROU; Cutting/ uprooting of shrubs, plants, vegetation within ROU; , Trenching to all depths and to a width to accommodate the pipeline with optical fiber cable (inside HDPE Duct) by excavation in all types of soil (in case of hard rock, additional payment for hard rock breaking will be paid as per separate SOR line item), including additional trenching for seismic and other areas as specified,(Rate for laying of optical fibre cable and HDPE Duct not be included here and same to be quoted against separate SOR item); Carrying out repairs of pipe and coating defects not attributable to Owner; Thorough internal cleaning of all pipes by suitable methods to remove debris, shots, grits etc.; Stringing of line pipes along ROU including providing straw bags, soft padding/sand padding; Aligning, cold field bending, cutting and beveling (as required) of pipes for welding and field adjustments, NDT & NDT of re-beveled area, welding, carrying out destructive & non- destructive testing of welds required as per approved NDT specifications (including radiography) and providing all requisite equipment, labour, supervision, materials, films, consumables etc.; carrying out repairs of weld joints as required, carrying out re- radiography and other non-destructive tests on repaired joints, etc.; Installation of carrier pipe including concrete coated pipes (wherever required),				
5	(Concrete Coating on pipes, covered separately) at all crossings including roads/ canals/ nala/ water crossings etc. (supply and installation of casing pipe by open cut or by Jacking/ boaring method covered separately) including pre-testing as required; Carrying out installation of carrier pipe in the casing pipe at cased crossings; Coating of all field weld joints, long radius bends (fabrication of Cold field bends covered here and fabrication of 6D bends by induction heating covered separately), buried fittings etc.; Supply & Installation of warning tape along the entire length of Pipeline including Crossing. Lowering the pipelines in trench, providing required padding over and around the pipeline with sand/graded material (in rocky areas), backfilling with available approved excavated material and/or other suitable soil (supply and providing of soft soil for pre & post padding in Rocky area); Supply and installation of slope breaker as per specifications and drawings in steep slope areas, wherever required; Carrying out hydrostatic testing including air cleaning, flushing, filling, gauging, pressurization of complete pipeline in various test sections as approved by Engineer-In-Charge to the specified test pressure, providing all equipment, pumps, fittings, instruments, dead weight tester, all types of pigs etc., and services, supervision, labour, consumables, arranging water required for hydrostatic testing including supply of corrosion inhibitor, air, etc. as required, locating of leaks and rectification of defects attributable to Contractor, re-testing after rectification, successful completion of hydro-testing of pipeline (De-watering covered else where in the SOR); including all tie-in(s) with the pipeline/ piping installed by others including cutting of test header, re- beveling as required; Carrying out all temporary, ancillary, auxiliary works and all incidental works required to make the pipeline ready for pre- commissioning; Carrying out EGP for the entire stretch of completed pipeline, Repair of defects recorded during EGP/gauge plate run or otherwise including cutting, beveling, welding, NDT, field joint coating etc.; as applicable, Final clean-up and restoration of right of use including obtaining NOC from respective statutory authorities as required and disposal of debris and returning all surplus material to designated disposal areas/storage yard, as directed by Engineer-In-Charge; Restoration of land, facilities and boundary wall etc. at associated facilities dismantled/damaged by the Contractor during construction; Obtaining work permits/ NOC from various statutory authorities having jurisdiction and complying with all stipulation/conditions/recommendation of the said authorities; Preparation of as-built drawings, pipe-book and other records. SOR shall be read in conjunction with Project drawings, scope of work, specifications, standards and other provisions of contract document. The work includes the Survey data & site preparation, Stringing/Chainges in direction, Beveling of pipe element, Welding Procedure Qualification & Welders Qualification, Welding of pipe element, Inspection & testing of production welds, Field joint coating, controlled blasting, chiseling, etc., Material hand over & material handling, Lowering-in & ballasting, All crossings except HDD as mentioned in Crossing List (including installation of carrier pipe inside the Casing at cased crossing) , Backfilling (for all depths in all types of soil, soft /hard rock) , including trench padding with sand, graded earth in rocky areas & rock shield(if required as per specs) reinstatement (restoration) and preparation of As-built Alignment & Crossing drawings.				

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	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010			PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
				Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022
	M/s. CORRTECH ENERGY LIMITED				
S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
6	All above works shall be executed in accordance with scope of work, GTS, PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. 1. Supply and Installation of OFC and HDPE Ducts along the entire pipeline route, adjacent to the new pipeline, along with all required accessories, fittings and associated items, is covered separately in the SOR. All above works for buried pipeline (including hook-up pipeline from Tap Off Point inside ONGC GCS, Bokaro upto proposed plot for GAIL DT), as per following details :				
7	ND12", API5L X70 - 6.4 mm	6500	M	2,514.00	1,63,41,000.00
8	ND12", API5L X70 - 7.1 mm	15850	M	2,550.00	4,04,17,500.00
9	ND12", API5L X70 - 8.7 mm	150	M	2,570.00	3,85,500.00
10	**Concrete slabs (Mechanical Protection) as per technical specifications** Supply, fabrication and installation of reinforced concrete weights. Reinforced steel size should be 8 mm. top and bottom at a rate of 200 mm c/c of precasted RCC 1:2:4 on pipeline of wall thickness of 75 mm thick and size as per specifications & Standard drawings and instructions of Owner/ Owner's representative including supply of consumables, materials, equipment, labor, supervision, all associated civil works.	382	M	4,000.00	15,28,000.00
11	**Continuous Concrete Coating** Supply of all consumables and materials, equipments, manpower, submission of application procedure with calculations for anti-buoyancy, design mix procedure qualification and application of continuous concrete weight coating thickness mentioned below (higher also, in case design requirements) on pipeline of all thickness, concrete weight coating of the field joints thereof, and performing all works as per specifications and instructions of Owner/Owner's representative and other provisions of CONTRACT DOCUMENT.				
12	35 mm thick	12	M	2,062.00	24,744.00
13	50 mm thick	12	M	3,500.00	42,000.00
14	**GEO TEXTILE BAGS FOR ANTI-BUOYANCY**				
15	Additional works over and above item no. 4 to 9 for design, manufacture and supply of Non-biodegradable geo-textile bags and installation of geo-textile bags duly filled with gravel/ stone ballast on pipelines of all wall thicknesses for anti-buoyancy, drawings, scope of work and instructions of Engineer-in-Charge and other provisions of the Contract document. Note: This item shall be applicable for Some crossings as per instructions of Engineer-incharge.				
16	ND12" (for all thicknesses)	12	M	3,000.00	36,000.00
17	**Permanent Markers** Supply, fabrication and installation of following types of permanent markers along the pipeline route including all associated civil works such as excavation in all types of soil, construction of pedestals and grouting with concrete, clearing, supply & application of approved color and quality of primer and paint, stencil letter cutting for numbers, direction, chainage, etc. restoration of area to original condition and performing all works as per drawings, specifications and instruction of Owner/Owner's Representative.				
18	Pipeline Warning Signs	35	Nos	7,500.00	2,62,500.00
19	Right-of-way boundary markers	94	Nos	500.00	47,000.00
20	Kilometer Markers	19	Nos	7,500.00	1,42,500.00
21	Aerial Markers	4	Nos	25,000.00	1,00,000.00
22	Navigable Waterway Markers	8	Nos	60,000.00	4,80,000.00
23	Directional Markers	297	Nos	7,500.00	22,27,500.00
	Repair of Defects in Pipe Coating (Attributable to OWNER)				

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M/s. CORRTECH ENERGY LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
25	**Repair of Line Pipe Coating:** Supply of all coating repair materials as per the requirements of the relevant specifications, supply of all consumables, utilities, equipment, and all manpower required, pipe cleaning and surface preparation, repairing of coating defects (resulting in holiday in coating) and testing including all handling, transportation, etc. for line pipes, performing all works necessary for the completion of the works strictly in accordance with the relevant specifications and instructions of OWNER.				
26	**Repair of Holidays in Coating**	40	Nos	1,000.00	40,000.00
27	Repair of Cosmetic Defects in Coating: Description of same as in 25 above, but for repair of cosmetic defects in coating.	80	m2	2,500.00	2,00,000.00
28	Repair of Defects in Line Pipes				
29	Repair of OWNER supplied pipes of all wall thicknesses, recorded at the time of taking-over by CONTRACTOR at all places of work.				
30	Cutting and rebevelling	25	Nos	3,500.00	87,500.00
31	Jack out method	25	Nos	3,500.00	87,500.00
32	All works for locating burst (occurred during hydrostatic testing and tightness test attributable to Owner issued materials) including detecting burst, necessary repairing/replacing defective pipe lengths, including cutting out and removing the defective pipe, pretesting the replacement pipe, welding of replacement pipe into mainline and NDT of welding, repair and re-testing of defective welds, coating of welded joints, cleanup, retesting including providing all labor, materials, consumables and inputs other than OWNER supplied materials and performing all works as per drawings, specifications and directions of Owner/ Owner's representative. In case of pinhole leaks not easily detectable all works for locating leak (occurred during mechanical resistance test and tightness test attributable to Owner issued materials) including detecting leak, The Payment will be made as per actual efforts and based on Equipment and manpower Rate provided in SCC . Further replacement & retesting will be paid as above.	2	Per burst	3,50,000.00	7,00,000.00
33	**LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER) (FOR TERMINAL PIPING)** **LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER DUE TO FIM)** All works for leak/burst (occurring during hydrostatic testing) by necessary repair/replacement of defective pipe length, including cutting and removing out defective pipes, welding, NDT of welds, repair and re-testing of defective welds, painting of welded joints, clean-up, re hydro testing of the pipe segment including providing all necessary equipment, labour, materials, consumables and inputs other than Owner supplied materials and performing all works as per drawings, scope of work, specifications, standards enclosed with the Contract and directions of Engineer-in-Charge. Note: 1. This rate shall be applicable for manufacturing defects in Company supplied materials only.	18	Inch-meter	15,000.00	2,70,000.00
34	**IDLE TIME PRESERVATION OF PIPELINE** Preservation of complete pipeline and associated facilities and its maintenance including supply of all consumables, all equipment, man- power, etc., complete as per the requirements of specifications, scope of work, standards, other provisions of Contract document and instructions of Engineer-in- Charge. By filling and pressurizing with nitrogen including supply and maintenance of nitrogen as per following details:				
35	Pipe OD - 12 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - 3 MONTH	23800	M	30.00	7,14,000.00
36	Pipe OD - 12 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - FOR EVERY ADDITIONAL MONTH BEYOND INITIAL 3 MONTHS	23800	M	30.00	7,14,000.00
37	PRE-COMMISSIONING FOR NATURAL GAS PIPELINES SYSTEM, Carrying out pre-commissioning activities and pre-commissioning checks to the specified acceptance criteria, making the entire pipeline system ready for commissioning (It includes cleaning including magnetic cleaning, Electrical Geometrical Pigging survey, dewatering, swabbing,, pre-drying activity, Golden-tie ins connecting the stations),, supply of all equipment, man-power, consumables, including all type of pigs and required quantity of nitrogen, materials for all temporary works and performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.				

M/s. CORRTECH ENERGY LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
38	Pipe OD - 12 INCH	23800	M	100.00	23,80,000.00
39	**Commissioning Assistance**				
40	**OVERALL COMMISSIONING OF ENTIRE PIPELINE SYSTEM** Overall commissioning including system checks, inertisation (as required) and charging of entire pipeline system, including all stations and all associated facilities including notifying the Company that the pipeline system is ready for commissioning; Review of status jointly with the Company and obtaining final clearance for start of commissioning; Development and submission of commissioning procedures, obtaining Company approval thereupon, carrying out overall commissioning of the total pipeline system including all facilities and all necessary coordination/ liaison with other Contractor(s) operations; Carrying out commissioning; Supply of all equipment like Nitrogen vapourisers (as required), along with all piping and instruments, temporary venting/ flaring/draining facilities as applicable, man-power, consumables including pigs and required quantity of Nitrogen (as required); Performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.				
41	Pipe OD - 12 INCH	23800	M	50.00	11,90,000.00
42	PIPELINE INFORMATION MANAGEMENT SYSTEM Providing pipeline information management system using web based software for monitoring pipeline construction progress and providing all "As Built" data & drawings for entire length of pipeline as per specifications enclosed with the tender document.	1	LS	3,00,000.00	3,00,000.00
43	VIDEO FILM & PHOTOGRAPHY OF CONSTRUCTION ACTIVITIES Preparation of high resolution video films with audio commentary and Industrial photography covering all aspects/activities of pipeline construction annotated as required, conversion of same to video DVD/Blue Ray format, submitting three (3) sets of the same as per details in scope of work document	1	LS	3,50,000.00	3,50,000.00
44	**FABRICATION OF LR BENDS :**				
45	Fabrication of 6D bend / LR (Induction) bends as per the relevant standard & Specification attached with the tender document from free issue linepipes (mother pipe) including but not limited to the following: "Receiving and taking over of free issue linepipes" from GAIL Dump Yard location as mentioned in Scope of Work, carrying out inspection of line pipe at the time of receive taking over in the presence of Company representative, carrying out repair of pipe defects attributable to Contractor after taking over, including supply of consumables & equipments; handling, hauling, transportation and loading/unloading required to transport the mother pipes between place of issue, LR bend fabricator/ manufacturer, intermediate storage as required, and final delivery of fabricated LR Bends to the worksite(s), as per requirement, Manufacturing/ fabricating of LR Bends, as per project requirements and Specifications. LR bends exact angle(s) shall be as per pipeline alignment. Note:- 1. Rate for repairing of defects in linepipes identified and recorded at the time of receiving & taking over i.e. defects attributable to Company shall be quoted separately in the applicable items of the SOR. 2.Loading of Pipe into installation contractor trailer shall be carried out by the GAIL Dumpyard maintenance agency already engaged by the Company.				
46	Bare Pipe ND12", API5L X70 - 7.1 mm	18	Nos	55,000.00	9,90,000.00
47	Bare Pipe ND12", API5L X70 - 8.7 mm	22	Nos	65,000.00	14,30,000.00
48	**SUPPLY AND INSTALLATION OF CASING PIPE & 6 INCH CS CONDUIT:** Supply and installation of casing pipe and 6 inch CS conduit for OFC by jacking / boring or open cut for rail, road or canal crossings wherever required in all types of soils and terrain separately for carrier pipes and fibre optic cable inside HDPE duct, supply of casing pipes and all other Contractor supplied materials viz. casing insulators and casing end seals as per enclosed drawing, materials for casing vents and drains, etc. including transportation, supply of all other materials, equipments, consumables, man-power, welding including visual inspection of all weld joints, installation of casing insulators, end seals, vents and drain-off pipes, backfilling and restoration as original of the facility crossed and performing all works as per drawings, specifications including PTS and GTS and instructions of Engineer-in Charge and provisions of Contract document.				

	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010			PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
				Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022
	M/s. CORRTECH ENERGY LIMITED				
S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
49	Supply and installation of Casing pipe by Boring / Jacking as per item no. 48 (Other than Railway Crossings) Casing Pipe Details: (Pipe 18" , 6.4 mm Thick, API 5L GR.B)	100	M	16,000.00	16,00,000.00
50	Supply and installation of 6 inch CS Conduit by Boring/Jacking as per item no. 48 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	100	M	12,000.00	12,00,000.00
51	Supply and installation of Casing pipe by open cut as per item no. 48 Casing Pipe Details: (Pipe 18" , 6.4 mm Thick, API 5L GR.B)	100	M	10,000.00	10,00,000.00
52	Supply and installation of 6 inch CS Conduit by open cut as per item no. 48 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	100	M	6,000.00	6,00,000.00
53	**HDD CROSSING**				
54	**Generalities**				
55	Topographic / Bathymetry, Geotech Investigation and Hydrological data collection				
56	Site preparation				
57	Design & stress calculations as per requirement				
58	Material hand-over and material handling				
59	Site reinstatement				
60	Final dossier including all notes & calculations as required in the specification				
61	**Installation of 6 inch CS Conduit**				
62	Teletransmission--Separate Drilling for 6 inch CS Conduit for OFC installation				
63	Installation of HDPE duct & OFC cable inside 6 inch CS conduit				
64	Drilling & Pulling of 6 inch CS Conduit shall be done before mainline HDD.				
65	**Pipeline string**				
66	Beveling & welding				

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	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. CORRTECH ENERGY LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
67	Inspection & testing of welds				
68	Field joint coating				
69	Temporary support (roller)				
70	Control of pipeline string				
71	Hydrotesting & leak test				
72	**Drilling operation**				
73	Earthwork entry / exit points including grading erection of embankment etc..				
74	Supply & clearing out of all material needed for drilling				
75	Drilling of washer pipe, reaming & cleaning of drill opening, supply and preparation of bentonite				
76	Pull back of the pipe string				
77	Disposal of surplus of soil & bentonite				
78	Control of the integrity of the coating				
79	**Work at entry point**				
80	Changes in direction				
81	Beveling & welding				
82	Inspection & testing of welds				
83	Field joint coating & coating of all bare section of pipe				
84	Earthwork				
85	Lowering-in				
86	backfilling as required				
87	**Work at exit point**				

	ANNEXURE - I **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**			**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL**	**Rev.00** **Date-11.02.2022**
				Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**
M/s. CORRTECH ENERGY LIMITED					
S. NO.	**WORK DESCRIPTION AND SUPPLY**	**UNIT**	**QTY**	**PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR**	
88	Changes in direction				
89	Beveling & welding				
90	Inspection & testing of welds				
91	Field joint coating & coating of all bare section of pipe				
92	Earthwork				
93	Lowering-in				
94	backfilling as required				
95	Complete work for the water/ Road/ Rail crossings, including taking over and handling of linepipes from Contractor Storage Yard to worksite, Arrangement of all additional land required for Contractor's storage, fabrication, access for construction; construction design calculation and engineering of the crossing, mobilization and demobilization at site(s), supply of all materials as per "Scope of Supply" and all consumables, equipment, manpower and other resources, and acquiring the required land for site preparations, and execution of, but not limited to, the following works in accordance with specifications, drawings, and as per provisions of the Contract document and instructions of the Company/ Engineer-in- Charge: Carry out all surveys required for collecting data relevant to design and construction of the crossing, preparation of all necessary construction drawings for Company's approval as per the provisions of the Contractor document, Preparation of detailed construction method statement and calculations including Scour Depth calculations for river/ canal crossings, Strings preparation including welding, 100% Radiography of welds, NDT of welds and re-beveled areas, radiography, weld repair and re-test, pre-testing of completed string, corrosion coating of field joints with Dirax or equivalent, inspection of corrosion coating and repair of defects, Preconstruction surveys and collection of all necessary data, Installation of pipeline and CS conduit (6 Inch CS Conduit shall be installed through Seperate Drilling) , horizontal directional drilling to the correct profile as per approved drawings and specification, Post-installation hydrotest including leaks and repair of defects and retesting, etc. for defects attributed to Contractor's faulty work, Supply, fabrication and construction of protective fencing as required, Hydrotesting, Supply, fabrication and erection of pipeline markers, Restoration and clean-up etc., Preparation of as-built drawings and other records etc., All other works not specifically listed herein, but required as per specifications, drawings, provision of contract document, calculations, and construction method statements, leading to successful completion of works.				
96	Linepipe details:- (Pipe 12" dia, Wall Thickness: 7.1 mm, Pipe Grade: API 5L GR.X-70 PSL 2, External Coating: 3LPE) CS Conduit details: (Pipe 6" dia, 6.4mm Thick, API 5L GR.B) Note: 1. CS Conduit shall be supplied by the Contractor. Radiography & Hydrostatic testing is not required to be done for CS Conduit. (6 Inch CS Conduit shall be installed through Seperate Drilling) Contractor shall quote accordingly. 2. The rate shall be applicable for the drilled length of the HDDs.	1300	M	44,000	5,72,00,000.00
97	All above works shall be executed in accordance with scope of work, GTS,PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. This line item is applicable for HDD crossing mentioned in the Crossing List with prior approval of Engineer - In-Charge during Construction.				
98	**SUPPLY & INSTALLATION OF OPTICAL FIBBE CABLE AND HDPE DUCT**				
99	Suppy of 24 Fibre Composite armoured Optical Fibre Cable drum (6 fibre G-655 & 18 fibre G-652) of 4 km +/-5% Cable drum length with fiber terminal closure, inspection chamber, electronic route marker all along pipeline route, Two number electronic locater as per PTS-Optical Fibre cable and Scope of Work C&I along with all required accessories and fitments not mentioned seperately.	26200	M	62	16,24,400.00

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	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. CORRTECH ENERGY LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
100	Inspection/Jointing Chamber (fabricated or readymade)	8	Nos	14,659	1,17,272.00
101	Blowing Pit (fabricated or readymade)	25	Nos	3,665	91,625.00
102	Supply of jointing closure 24 Fiber, 2 way including all accessories (3M, Siemens, Reychem make only)	10	Nos	3,665	36,650.00
103	Supply of End to End OFC termination of wall mounted FTC with pig tails other accessories for termination of OFC - 24 Fibre in the Telecom Room at Bokaro & SV1	2	Nos	10,994	21,988.00
104	Electronic marker	8	Nos	3,078.00	24,624.00
105	Electronic Locator	1	Nos	1,00,000.00	1,00,000.00
106	Supply of 50mm OD permanently lubricated HDPE telecom duct along with all the required accessories as per PTS-Optical Fibre cable and Scope of Work C&I	26700	M	62.00	16,55,400.00
107	Laying of HDPE Duct : Laying of 50mm HDPE Ducts in same pipeline trench direct buried, or inside 6 inch CS conduit at various crossings as per Specification in all type of soil & terrain, excavated as required, padding, backfilling, etc. including supply of accessories required for HDPE Duct installation, including plastic couplers, end plugs, cable sealing plugs, end caps, etc. suitable & sufficient for above supplied ducts, cleaning and sealing of ducts at the end laid drum lengths, preparation and supply of cable blowing pit at each Km jointing of HDPE duct, testing of HDPE Duct and accessories after laying preparation of report and final drawing and documents as per specification, joint location marking, erection accessories, as-built, etc.	22500	M	60.00	13,50,000.00
108	Blowing of Optical Fibre Cable inside HDPE Duct : All activities pertaining to Blowing of Optical Fibre Cable in same pipeline trench directly (after testing drum at site), inside HDPE duct along the pipeline and at crossing, sealing using all materials required as per specification	22500	M	50.00	11,25,000.00
109	Installation of FTC & Wire mesh, termination of OFC on FTC / DDF inside telecom room, splicing with steet fibre, fibre test, OTDR test, power testing of laid OFC, identification of fault, rectification, earthing, final testing and commissioning, preparation of reports, etc. work complete in all respect with all necessary accessories for all location till final Handing Over and Taking Over by Owner of laid OFC.	1	LS	15,000.00	15,000.00
110	**TRANSPORTATION OF COATED AND BARE LINEPIPES FROM GAIL DUMPYARDS (ANY LOCATIONIN INDIA) TO CONTRACTOR STORAGE YARD:**				
111	"Receiving and taking over" of "free issue" Linepipes from GAIL Dump Yard location (any location in India); Carrying out inspection of Linepipes at the time of receiving and taking-over, recording of pipe & coating defects at the time of taking over in the presence of Company's representative, carrying out repair of coating defects & pipe defects attributable to Company; including supply of materials, consumables & equipments; handling, hauling and transportation from designated place of issue to Contractor Storage Yard; unloading and stacking of the linepipes at Contractor Storage Yard; including arranging all equipments, trailers, trucks & manpower; all works as per Scope of Work, drawings, PTS, GTS and other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, Provision of Contract & instructions of Engineer InCharge.				

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	ANNEXURE - I **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL**	**Rev.00** **Date-11.02.2022**
		Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
112	Linepipe Details:- Coated and Bare Line Pipe 12" diameter API 5L Gr. X-70 PSL-2 Wall Thickness - 6,4mm / 7.1mm / 8.7 mm External Coating - 3LPE, Internal Coating - Liquid Epoxy 1) Loading of Pipes into Installation contractor's trailer shall be carried out by the contractor. 2) Development & Maintenance of Contractor Storage Yard adequate to store the linepipes including arrangement of all Lifting & Handling equipment at Contractor's Storage Yard shall be done by the Contractor. Rate for the same shall be quoted in applicable items. 3) Rate for repairing of coating defects in linepipes identified and recorded at the time of receiving & taking over i.e. coating-defects attributable to Company shall be included in this item. 4) Rate for repairing of pipe-defects identified and recorded at the time of receiving & taking over i.e. pipe-defects attributable to Company shall be quoted separately in the applicable items of the SOR. 5) Transportation of line pipe from Contractor's Storage Yard to work site is included in SOR item 1 above, No separate payment will be applicable for the same.	220000	Ton-Km	20.00	44,00,000.00
113	**TRANSPORTATION OF FREE ISSUE PIPING ITEMS (OTHER THAN LINE PIPE) FROM GAIL STORAGE YARDS (ANY LOCATION IN INDIA) TO CONTRACTORS YARD / WORKSITE(S) :** "Receiving and taking-over", handling, lifting, loading, transportation and unloading of Company supplied "free-issue materials" (Other than line pipe) viz. Metering Filtering and PRS Skid, Scrapper Launcher/ Receiver & accessories, Valves with or without Actuators, Insulation Joints, Flow Tee, Pig Signallers, fittings, flanges etc. from GAIL Storage yards location (any location in India) to Contractor's Storage Yard / work-site(s). Note:- 1) Location of GAIL Storage Yard shall be anywhere in India. Contractor shall quote accordingly. 2) Transportation of FIM from Contractor's Storage Yard to work site, is included in SOR item 121 below, No separate payment will be applicable for the same.	15000	Ton-Km	40.00	6,00,000.00
114	**DEVELOPMENT OF CONTRACTOR STORAGE YARD:**				
115	Development of the Contractor Storage Yard including fencing, illumination etc., including deployment of all lifting and handling equipments, manpower required to stack, unload and load all Free Issue Material (FIM) including Line Pipes and all bought out items, as required; storage of all Free Issue Material and bought out items for the required duration as per project requirement, all works as per Scope of Work, drawings, other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, PTS, GTS and Provision of Contract & instructions of Engineer In-Charge. The storage yard shall be used for storage of all Free Issue Line pipes, all other Free Issure Material (FIM) and all bought out items required for the project. Notes:- 1) Development of contractor storage yard adequate to store all the material required for Project, including all Free Issue Material (FIM) and bought out items. (Rate for the same shall be captured in this item) 2) Maintenance of contractor storage yard for the entire project period is included in the scope of contractor. No separate payment shall be applicable for the same.	1	LS	10,00,000.00	10,00,000.00
116	Hard Rock breaking by controlled blasting / chiseling method (rate will be applicable in case when prior approval for rock breaking is obtained by the contractor from GAIL / PMC)	100	M3	1,500.00	1,50,000.00
117	Clean Agent Fire Supression System as per Scope of Work	1	LS	25,00,000.00	25,00,000.00
118	Restoration of underground utilities (pipes & cables) during excavation at ONGC, GCS Bokaro and Receiving Station (which is inside SV-01 Premises)	10	Nos	10,000.00	1,00,000.00
119	**Sub-Total Section A**				**14,79,99,203.00**
	SECTION-B [MECHANICAL (PIPING & TERMINAL WORKS)]				

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	ANNEXURE - I **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**			**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**
	M/s. CORRTECH ENERGY LIMITED				
S. NO.	**WORK DESCRIPTION AND SUPPLY**	**UNIT**	**QTY**	**PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR**	
121	**PIPING WORKS AT DESPATCH AND RECEIVING STATIONS AND HOOK-UP WITH ONGC GCS, BOKARO** All works for installation of all piping at all elevations for Despatch and Receiving Stations as indicated in Drawings, Scope document, including supply of all consumables, Gaskets, nuts, bolts Studs, manpower, materials and equipment (except Company supplied free-issue materials), aligning, grouting, tie-in with pipeline and carrying out all mechanical works of underground and above ground piping including fabrication, welding, installation of all pipes, valves (manual & actuated), flanges, fittings, flow tees, pig signalers, insulating joints, corrosion monitoring probes /corrosion coupons, installation of instruments (pressure/temperature gauges, vents, drains-off, safety relief valves, electro hydraulic valves etc.) as indicated in P& IDs and GADs. 100% Radiography of weld joints of piping above 1.5 inch, Magnetic particle & Die penetration test for piping 1.5 inch & below, all NDT of welds, weld repairs/retesting, hydrostatic testing, cleaning/flushing, functional testing, de-pressurizing , Drying and dewatering, cutting and re-beveling (as required), hookup of all pipeline/utilities at the battery limit with the pipeline/utilities installed by others, obtaining all statutory clearances, approvals and permissions for the work (wherever required), excavation and filling in all types of soils including soft/hard rock for installation of piping/ pipe supports; corrosion coating and external painting (as required), finishing, clean-up and restoration of site, preparation of as- built drawings, documents and project records and performing all works as per drawings, specifications, other provisions of Contract document and instructions of Engineer-in-Charge. Civil/ structural works for piping supports will be paid separately as per unit rate provided elsewhere in the contract. Cost of Transportation of all materials (Including FIM mentioned above) for station works, from Contractor's own stock-yard to Work site, to be included in this SOR item. No separate payment will be applicable for the same.				
122	Fabrication and Erection of piping as per item no.110, (For Pipe Size 2 Inch and above, 100% Radiography) Note: 1. Rate for Handling, Fabrication and erection of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item. Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor.Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes 2" & above, shall also be part of this item. Contractor shall quote accordingly.	1900	Inch Dia Meter	750.00	14,25,000.00
123	Fabrication & Erection of Piping as per item no.110 (For Pipe Size Below 2 inch, Magnetic particle & Dye Penetration Test as per the requirement of specification)	50	Inch Dia Meter	1,500.00	75,000.00
124	Painting of Piping (Pipe, Fittings, Flanges, Valves, Equipments, etc.) as per item no. 110	1950	Inch Meter	550.00	10,72,500.00
125	Hydrostatic testing, cleaning / flushing, functional testing, de-pressurizing, dewatering & drying of Piping as per item no. 110 (for all size upto 12").	1950	Inch Meter	375.00	7,31,250.00
126	**INSTALLATION OF COMPANY SUPPLIED FIM (FML SKID AND PIG LAUNCHER/RECEIVER SYSTEM) AT DESPATCH TERMINAL AND RECEIVING TERMINAL**				
127	Installation of Company supplied Filtering, Metering and PRS Skid and Scrapper Launcher/ Receiver with accessories, at stations including all handling and installation works; as per drawings, specifications enclosed with the Contract and directions of Engineer-in-Charge. Cost of Transportation of above Free issue items, from Contractor's own stock-yard to Work site for station works, to be included in this SOR item. No separate payment will be applicable for the same.	1	LS	5,00,000.00	5,00,000.00
128	**CONTRACTOR SUPPLIED ITEMS:(Supply of Items as per attached PTS,GTS,Data Sheet,QAP and PMS)**				
129	**Station pipe -Seamless**				
130	1" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, PE, SEAMLESS	6	Meter	850.00	5,100.00
131	2" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	90	Meter	1,200.00	1,08,000.00
132	4" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	120	Meter	2,000.00	2,40,000.00
133	10" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	12	Meter	4,000.00	[illegible]000.00

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	M/s. CORRTECH ENERGY LIMITED				
S. NO.	**WORK DESCRIPTION AND SUPPLY**	**UNIT**	**QTY**	**PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR**	
134	12" pipe, 7.1mm thk, ANSI B 36.10, API 5L X 70,HFERW	84	Meter	5,000.00	4,20,000.00
135	**Supply of fittings & Flanges**				
136	1 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 350 LF2,CL1, BW, ANSI B16.25	4	Nos	850.00	3,400.00
137	1" WNRF FLANGES, 6C1, SCH. 160 / 600#, WNRF, B-16.5, ASTM A350 LF2, CL1, BW-ANSI B16.25 RF	4	Nos	450.00	1,800.00
138	1", BLIND FLANGES, 6C1, 600#, RF, B-16.5, ASTM A350 LF2, CL1, RF	4	Nos	450.00	1,800.00
139	3/4" EQUAL TEES, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25,	2	Nos	500.00	1,000.00
140	3/4", CUP THREADED 6C1, 6000#, ANSI B16-11, ASTM A 350 LF2, CL1 , BW - ANSI B16.25, ANSI B1.20.1,	3	Nos	500.00	1,500.00
141	**WELDOLETS (MAINLINE x BRANCH SIZE)**				
142	4" x 1", WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	4	Nos	1,000.00	4,000.00
143	12" x 2" WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 7.1 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 694 F70	5	Nos	5,000.00	25,000.00
144	12" x 2", WELDOLETS (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 7.1 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	35	Nos	12,000.00	4,20,000.00
145	**GASKETS**				
146	GASKETS, 6C1, 600#, RF, ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 1"	12	Nos	95.00	1,140.00
147	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 2"	210	Nos	150.00	31,500.00
148	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 4"	30	Nos	300.00	9,000.00
149	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 10"	2	Nos	680.00	1,360.00
150	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 12"	44	Nos	1,500.00	66,000.00
151	**NIPPLES**				
152	NIPPLES, 6C1, Sch 160 /600#, ANSI B 36.10, ASTM A333 GR.6, BOTH ENDS PLAIN, SEAMLESS-LG=100mm, 3/4"	10	Nos	150.00	1,500.00
153	NIPPLES, 6C1, Sch 160 / 600#, ANSI B 36.11, ASTM A333 GR.7, ONE END THRD -MNPT SEAMLESS- LG=100mm, 3/4"	8	Nos	150.00	1,200.00
154	**Supply of following Valves as Per attached PTS,GTS,Data Sheet,QAP,PMS & MTO**				
155	1",BALL VALVE - FULL BORE (RF) (ABOVE GROUND),6C1	6	Nos	12,000.00	72,000.00
156	3/4", CHECK VALVE (RF) (AG), 6C1	2	Nos	7,000.00	14,000.00
157	**3/4",NEEDLE VALVE, 6C1**	5	Nos	7,000.00	35,000.00
158	Note (Applicable for all items of SOR item No 128 to 157): 1. Before procurement of any of the above materials Contractor will take prior approval from GAIL / PMC. 2. Payment will be made for actual quantity used.				
159	**Sub-Total Section B**				**53,16,050.00**
160	**SECTION-C [CIVIL / STRUCTURAL & ARCHITECTURAL]**				

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. CORRTECH ENERGY LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
161	**CIVIL , STRUCTURAL & ARCHITECTURAL**				
162	**Earthwork excavation in soil**				
163	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	2900	cum	300.00	8,70,000.00
164	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth beyond 1.5m and upto and inclusive of 3.0m including Removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	70	cum	450.00	31,500.00
165	**Earthwork excavation in soft rock**				
166	Earth work in EXCAVATION below ground level for all kinds of works in SOFT ROCK and HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as irected including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	255	cum	1,000.00	2,55,000.00
167	**Backfilling after execution of work**				
168	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps within a LEAD OF 100M,including re-excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/ mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	1150	cum	100.00	1,15,000.00
169	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps beyond a LEAD OF 100M AND UPTO & INCLUSIVE OF 500M including re- excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	490	cum	150.00	73,500.00
170	**Transporting & Disposing the SURPLUS EARTH AND DEBRIS**				
171	Transporting and disposing the SURPLUS EARTH AND DEBRIS including shrubs and vegetations from construction areas to areas ANYWHERE OUTSIDE THE PLANT BOUNDARY, including re-excavating the deposited soil excavated earlier, loading, transportation, unloading, laying at all depths and heights, stacking,levelling and dressing both the area (viz. from where the earth is transported and where it is deposited) to required levels and slopes complete with all lifts as directed. For carting on the basis of truck measurements (volume of truck reduced by 30% for voids). DISPOSAL AREAS OUTSIDE PLANT BOUNDARY TO BE ARRANGED BY THE CONTRACTOR. Royalty as applicable for disposal outside plant limits to be borne by the Contractor	1310	cum	250.00	3,27,500.00
172	**EARTH WORK FILLING BY EXCAVATION**				
173	EARTHWORK IN FILLING by excavating the earth from BORROW AREAS arranged by CONTRACTOR for all leads, transporting the earth from borrow area including cleaning & stripping the earth at borrow areas, breaking clods, loading, unloading and laying at all depths and heights in layers of thickness not exceeding 15 cms., watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% of the maximum laboratory dry density, ressing, trimming, levelling the top surface etc. in foundations, plinths, trenches etc. all complete.	9555	cum	550.00	52,55,250.00
174	**PLAIN & REINFORCED CEMENT CONCRETE: (REFER SPECIFICATION NO. (Z/02/0004)**				
	PLAIN CEMENT CONCRETE - PCC				

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	M/s. CORRTECH ENERGY LIMITED				
S. NO.	**WORK DESCRIPTION AND SUPPLY**	**UNIT**	**QTY**	**PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR**	
176	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:4:8 (1 cement : 4 coarse sand (Zone-III) : 8 graded stone aggregate 40 mm nominal size)	160	cum	5,000.00	8,00,000.00
177	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:3:6 (1 cement : 3 coarse sand (Zone-III) : 6 graded stone aggregate 40 mm nominal size)	22	cum	5,500.00	1,21,000.00
178	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:2:4 (1 cement : 2 coarse sand (Zone-III) : 4 graded stone aggregate 20 mm nominal size)	150	cum	5,600.00	8,40,000.00
179	Providing and laying PLAIN CEMENT CONCRETE for all depths below and upto plinth level in foundations, drains, fillings, non-suspended floors, pavements & ramps or any other works etc. including shuttering, tamping, ramming, vibrating, curing, etc. all as specified in any shape, position, thickness and finishing the top surface rough or smooth as specified and directed all complete for concrete grade M20 with 20mm and down size graded crushed stone aggregates/Gravels. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR	26	cum	5,700.00	1,48,200.00
180	**RCC WORKS**				
181	**SUBSTRUCTURE**				
182	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUBSTRUCTURE INCLUDING CENTERING & SHUTTERING) e.g. foundations, raft, beams, pile caps, Retaining walls, counterforts, buttresses, pedestals, pipe sleepers, columns, suspended floors, staircases, landings, steps, brackets etc., including equipment/ machine foundations & pedestals viz. compressors, generators, etc. (including single pour concreting as specified on the drawing), applying cement wash on concrete surface (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering, etc., wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT)for all depths below and upto plinth level in any shape, position and thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	1220	cum	9,000.00	1,09,80,000.00
183	**SUPER STRUCTURE- EXCLUDING CONTROL ROOM BUILDING, GUARD ROOM & BOUNDARY WALL**				
184	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUPER STRUCTURE INCLUDING CENTERING & SHUTTERING in suspended floors, slabs, beams, columns, walls including counterforts, staircases, landings, steps, facias, fins, mouldings, gutters, shelves, window sills, canopies, lintels, girders, ducts, brackets, chajjas with drip moulds, pedestals, posts, struts, equipment/ machine foundations, ramps etc. (including single pour concreting as specified on the drawing), providing cement wash (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT) FOR ALL HEIGHTS UPTO & INCLUSIVE OF 20 m ABOVE PLINTH LEVEL in any shape, position, thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	70	cum	10,000.00	7,00,000.00
185	**CONTROL ROOM BUILDING (SUPERSTRUCTURE)**				
186	Construction of Control Room Building as per drawings and specification. Building work for all Superstructure works INCLUDING CENTERING & SHUTTERING , Reinforcement , masonry work, partition wall, Plastering & pointing, flooring, Floor finishes, Door & windows, rolling shutter, false ceiling, all finishes, painting, roof treatment complete in all respect etc.)	215	m2	12,000.00	25,80,000.00
187	**GUARD ROOM (SUPERSTRUCTURE)**				
188	Guard Room as per drawings and specification. Building work for all superstructure works including (Reinforcement, masonry work Plastering & pointing, flooring, Floor finishes, Door & windows, painting, roof treatment, all finishes, water supply and sanitary work complete in all respect etc.)	17	m2	12,000.00	2,04,000.00
189	**HYD Bars / MS Bars**				

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190	Supplying and placing in position HIGH YIELD STRENGTH DEFORMED STEEL BARS REINFORCEMENT of Grade Fe500D TMT conforming to IS:1786, for RCC work (excluding control room building & Guard room & boundary wall superstructure) including transporting the Steel, straightening, cleaning, decoiling, cutting, bending to required shapes and lengths as per details, binding with 18 SWG black soft annealed binding wire at every intersection, supplying and placing with proper cover blocks, supports, chairs, overlaps, welding, spacers, fanhooks etc. for all heights and depths etc. all complete as directed. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE	136	MT	1,00,000.00	1,36,00,000.00
191	**BOUNDARY WALL (SUPERSTRUCTURE)**				
192	compound wall (Superstructure)with RCC columns, beam, coping and Brick masonry (3.0m high) with an additional 0.6m high barbed wire & concertina coil (dia. 600mm) overhead on 'Y' shape structural steel frame. (SUPERSTRUCTURE) works included (masonry work, Plastering ,painting, CENTERING & SHUTTERING complete in all respect etc.)with gate and supplying, fixing and tensioning in position 2.5mm(12 gauge), 2 ply, 4 points, GI Barbed wire designation A-1 conforming to IS:278 in horizontal rows and cross diagonals for compound wall "Y" shaped overhang etc. with necessary GI staples, clips and pins, GI straining bolts and binding wire with all labour and materials etc. complete as per drawings, specifications and directions of Engineer-in-Charge.(The barbed wire shall be measured in linear length of the barbed wire actually fixed) Supplying, fabricating and fixing in position structural steel line posts, straining posts, struts for 'Y' shaped overhang etc. conforming to IS:2062 over brick/stone Masonry/ RCC compound walls/ columns, cutting to required size as per drawings and specifications, welding where necessary, embedding in position, holding to correct level and line, any auxiliary structure for dummy supports, drilling holes and painting as per painting specification attached with tender, cutting brick/rubble/concrete surfaces if necessary, grouting with M20 grade concrete including cost of grout with all labour and material etc. complete as per drawings, specifications and directions of Engineer-in-Charge.(All materials including cement shall be supplied by contractor).	285	RM	6,000.00	17,10,000.00
193	**STRUCTURAL STEEL WORKS (REFER TE SPECIFICATION)**				
194	Supplying, fabricating and erecting of structural steel and applying COATING (Post-erection/ Field) of approved quality and shade as per TE Specification or Job Specifications, wherever applicable) over the coat of shop primer already applied, including storage, surface preparation, degreasing, cleaning, drying, providing necessary arrangement for access, testing etc. including touching up of shop for steel structures (Including Wicket Gate, Main Gate and emergency gate, excluding ladders, spiral stairways & hand rails) at all location & levels, all complete as specified, for UNIT (INLAND) areas considering environment classification as INDUSTRIAL. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE. (Unit rate based on Structural steel weight)	19.5	MT	1,10,000.00	21,45,000.00
195	MISCELLANEOUS STEEL WORKS (REFER TE - SPECIFICATIONS)				
196	**MS Chequered Plates**				
197	Supplying, fabricating and erecting in position at all levels and locations bolted, screwed and/or welded M.S. CHEQUERED PLATES of any thickness in walkways, platforms, stairtreads or any other place as directed, etc. cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing, welding, preparation and submission of fabrication drawings and preparing the surfaces for painting and applying shop primer as per TE Specification after fabrication and return of unused/ scrap/ unserviceable chequered plates to Owner's store and material reconciliation etc. all complete as specified and directed	1.5	MT	1,10,000.00	1,65,000.00
198	**Anchor Bolts**				
199	Supplying, fabricating, fixing and keeping in position at all levels and locations THREADED ANCHOR BOLTS of all diameters and nomenclature including nuts, washers, anchor plates, pipe sleeves etc. in foundations, columns, pedestals, slabs, beams, walls etc. or any other place as directed including handling & transporting, straightening if required, turning from relevant size M.S. rounds to required diameter, threading, welding, providing necessary templates and auxiliary dummy structures, if any, necessary tying and welding with reinforcement, adjustment of shuttering & reinforcement/any other fixture, greasing exposed metal surfaces, covering bolts and packing the sleeves with jute cloth etc. all complete as specified and directed.(SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1	MT	1,12,000.00	1,12,000.00
200	**MS Metal Inserts**				
201	Supplying, transporting, storing, fabricating and fixing in position M.S. METAL INSERT (with lugs) of any shape made out of flats, plates, rolled sections, pipes etc. providing necessary templates, staging, cutting,straightening, if required, bolting, welding as required and embedding in position on both Plain and Reinforced Cement concrete members inclusive of adjusting shuttering & reinforcement/ any other fixture, welding where necessary, tying and holding to correct level, line and position, any auxiliary dummy structures to support the heavy inserts, painting exposed surfaces with a coat of primer as per TE Specification all complete for all depths and heights as specified and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	0.55	MT	1,10,000.00	60,500.00
202	**MS Grating**				

Prepared Checked Approved

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203	Supplying, fabricating and erecting in position at all levels and locations ELECTROFORGED GALVANISED GRATING (purchased from approved manufacturer by the Contractor) conforming to TE STANDARD (in walkways, platforms, stair treads etc.) including cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing with manufacturer's supplied galvanised clamps, preparation and submission of fabrication drawings, all complete as specified and directed (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.7	MT	1,25,000.00	2,12,500.00
204	**Hand Railing 1000mm**				
205	Supplying, fabricating and fixing in position at all locations 1000mm high INCLINED HAND RAILING (for staircases) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade M.S. Tubes conforming to IS:1239 including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE SPEC. preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	RM	10,000.00	1,00,000.00
206	Supplying, fabricating and fixing in position at all locations 1000mm high HORIZONTAL HAND RAILING (for platforms, walkways, etc. or any other location as directed) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade MS Tubes conforming to IS:1239 and 100x5 MS Toe Plate confirming to IS:2062 (Grade A/B), including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE standard drawing & specification, preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	8,000.00	80,000.00
207	**CHAIN LINK FENCING**				
208	Supplying, fabricating and fixing G.I. chain link fencing with 3.5mm dia. wire, 50x50mm diamond mesh chain link fence fabric conforming to IS:2721 fixed to steel/RCC posts/struts above ground level, including supply of chain link fencing fabric in 1.9 metre wide rolls, stretcher bars, staples, etc. required for fixing the fencing, fixing of chain link fencing between straining posts, fixing of bottom of fencing in cement concrete 1:2:4 blocks and painting with synthetic enamel etc. , including supply and fixing line wires, complete as per drawings, specifications and directions of Engineer -in-Charge (All materials shall be supplied by Contractor). (The measurement of chain link fencing shall be on linear basis for 1.9 m wide fencing fabric)	10	M	10,000.00	1,00,000.00
209	**ROADS & FLEXIBLE PAVEMENT (UPTO WBM LAYER)**				
210	Preparation and consolidation of sub-grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth outside the property boundary in the un-disputed areas as directed by Engineer-In-Charge.	2400	M2	6,000.00	1,44,00,000.00
211	Supplying and laying of stone aggregate of 63mm down to 45mm size for WBM layer Base Course, tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 75mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding material of plasticity index upto 6%, including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts etc. complete as per drawings, specifications and directions of Engineer-in-Charge	7200	M2	3,000.00	2,16,00,000.00
212	**CONCRETE PAVEMENTS**				
213	Construction of dry lean cement concrete (DLC) sub base over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in- charge.	240	cum	12,000.00	28,80,000.00
214	Providing and laying Reinforced Cement Concrete with 20mm and down size graded crushed stone aggregates in flooring, pavements etc. including leaving pockets, if necessary, making recess/drains, laying in alternate panels, etc. for all depths including shuttering, tamping, curing, providing dowel bars with sleeves/tie bars etc where ever required at site. as specified in any shape, thickness, position and finishing the top surface smooth etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For RCC of M-30 grade concrete (all materials including cement but excluding cost of providing & fixing reinforcement and joint sealing shall be supplied by the contractor).	600	cum	11,500.00	69,00,000.00
215	Providing 20mm wide Expansion Joints in pavement slabs as per general technical specification including cleaning the joints of all loose material, filling with 20mm thick impregnated fibre boards for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved Joint Sealing Compound as per IS:1834 Type-B etc. all complete as per drawings, specifications and directions of Engineer-in-Charge	1100	M	600.00	6,60,000.00

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216	Sealing joint around pedestal and column etc. 20mm wide x 150 mm deep including filling with 20mm thick impregnated fire board for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved joint sealing compound as per IS:1834 Type-B.	300	M	350.00	1,05,000.00
217	**RCC PIPE CULVERTS & ELECTRICAL ROAD CROSSINGS ETC. (as per drawing & TE specification)**				
218	Supplying and laying in position RCC pipes with collars conforming to IS:458 for pipe culverts, cable crossings etc. including cutting the pipe if necessary, lowering, laying in position to proper levels, slopes etc. caulking the joints with spun yarn soaked in neat cement slurry and finishing with cement mortar 1:2 (1 cement : 2 sand) curing etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For following Class and Internal PIPE DIA (MM). (Dia (internal) - 500 mm, Pipe Class - NP3)	20	M	3,850.00	77,000.00
219	**U/G AND A/G G.I. PIPELINE SYSTEM - WATER SERVICES tender specification**				
220	Supplying and laying mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ ASTM A105 (Galvanized) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, earthwork in excavation for trenches, valve pits, etc. in all types of soil excluding soft and hard rock including laying of pipes in trenches, joining the pipes and fittings with threaded connections, hydrostatic testing of the piping, backfilling the trenches with selected/approved earth fill material, cutting of roads wherever required, making good the road surface after laying, disposal of surplus earth within a lead of 500 m, etc. including supply of necessary fittings etc. complete as per specifications, drawings and directions of Engineer-in-Charge. For following Nom.Size in mm. (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	650.00	6,500.00
221	Supplying and laying above ground mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ASTM A 105 (GALVANISED) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, including laying of pipes on sleeper, walls, including erecting piping on columns, etc. for pump station, overhead tanks, etc. including joining the pipes and fittings with threaded connections, hydrostatic testing of the piping including supply of necessary fittings etc & pipe supports. complete as per specifications, drawings and instructions of Cement Supplied by contractor (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	1,000.00	10,000.00
222	**MISC. CIVIL AND STRUCTURAL WORKS FOR U/G PIPING AND OTHER CIVIL WORKS**				
223	Providing and laying brick masonry with locally available bricks of specified class (Brick of class lower than specified shall not be accepted) in cement mortar 1:4 (1 cement : 4 Coarse sand) in one or more brick thickness and in any shape in foundation and plinth for valve pits, drains, circular/square manholes, wing walls, etc. including providing recesses, openings, etc. including curing, finishing the joints flush below ground level and raking out joints in plinth with all labour and material, etc. complete as per drawings, specifications and direction of Engineering-Charge. For following Brick Class. All materials including cement supplied by the Contractor and. (Brick Class - 5)	418	cum	7,200.00	30,09,600.00
224	Providing 13mm thick average cement plaster in cement mortar 1:3 (1 cement: 3 sand) on brick walls/stone masonry/pitching or on concrete surfaces for manholes, valves pits, culverts, wing walls, etc. including cleaning and preparation of the surface, scaffolding, curing etc. for all depths and heights complete as per drawings specifications and direction of Engineer-in-Charge. All materials including cement supplied by the Contractor.	775	M2	650.00	5,03,750.00
225	**UNDERGROUND SEWER SYSTEM - RCC PIPES**				
226	Supplying and laying underground R.C.C. pipes sewers with socket and spigot ends conforming to IS:458 of approved make, to proper grade and alignment, including earthwork in excavation in all types of soil except soft and hard rock for pipe trenches, etc. including dewatering, shoring and shuttering if necessary, dressing of sides, leveling, grading and ramming of bottoms, cutting the R.C.C. pipes to required lengths, lowering the pipes, jointing, including connecting the pipes to manholes and grouting the pipe body with manhole wall using cement mortar 1:2 (1 cement : 2 sand), testing, draining of water and cleaning of pipe after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness , watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, including cutting of roads wherever required and making good the same, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit etc. complete for all depths as per drawings, specifications and instructions of Engineer-in-Charge.(All material shall be supplied by contractor) For following Pipe size (mm) and Class(The following pipe sizes are all internal diameter of the pipes)				

	ANNEXURE - I **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL**	**Rev.00** **Date-11.02.2022**
		Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**

M/s. CORRTECH ENERGY LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
227	(Dia (Internal) - 100 mm, Piping Material Class - NP2)	15	M	600.00	9,000.00
228	(Dia (Internal) - 150 mm, Piping Material Class - NP1)	15	M	700.00	10,500.00
229	(Dia (Internal) - 450 mm, Piping Material Class - NP2)	70	M	1,200.00	84,000.00
230	**UNDERGROUND SEWER SYSTEM-HDPE PIPES**				
231	UNDERGROUND SEWER SYSTEM-HDPE PIPES :- Supplying and laying HDPE pipes conforming to IS:4984 of approved make to proper grade and alignment, including earthwork in excavation for trenches etc. in all types of soil except soft and hard rock including dewatering till completion of subsequent works, shoring and strutting, if necessary, dressing the sides, leveling, grading and ramming the bottom, jointing the pipes using hot plates as per manufacturer's recommendation, lowering, providing and laying 1:5:10 (1 cement : 5 sand : 10 aggregate) plain cement concrete of minimum 100mm thickness on bottom and side of pipe as directed, connecting the pipes to manholes and grouting the pipes to manhole/valve chamber walls, including supplying and fixing the specials and fittings, such as bends, reducers, tees, elbows, caps etc. conforming to IS:8008 or fabricated from pipes as per specification, supplying and fixing of flanges, fixing of online valves, including fixing of bolts, nuts and gaskets etc. as per specifications, testing, draining of water and cleaning of pipes after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness, watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit, cutting of road wherever required, making good the same etc. complete for all depths as per drawings, specification and instruction of Engineer-in- Charge. For the following nominal diameter (mm) Pressure Rating(Kg/Cm2). (Dia (Internal) - 80 mm, Pressure Rating - 2.5 Kg/sqcm)	50	RM	2,500.00	1,25,000.00
232	**PLUMBING AND BUILDING DRAINAGE**				
233	Supplying and fixing approved quality Cast Iron soil/waste pipe conforming to IS:1729 below ground with necessary specials, bends such as Y-junction, T- junction (both single and double) including plugs, shoes, cowls, jointing with lead caulked joints and testing, cutting in floors, earth work in excavation, encasing the pipe in 50mm THK, PCC M20, backfilling and removal of surplus earth upto a lead of 50M etc. complete as per drawings, specifications and directions of Engineer-in-Complete				
234	100mm dia (All materials including cement supplied by contractor)	10	RM	2,500.00	25,000.00
235	80mm dia (All materials including cement supplied by contractor)	10	RM	2,000.00	20,000.00
236	Supplying and fixing gun metal globe valve conforming to IS:778, complete as per specifications and directions of Engineer-in-Charge.				
237	Dia - 50 mm	2	Nos	10,000.00	20,000.00
238	Constructing of brick masonry valve chamber in 1:4 Cement mortar(1 cement: 4 sand) with CI frame & cover fixed on M-20 grade cement concrete , necessary excavation, M-20 grade foundation concrete, 13mm thick 1:3 cement plaster on inside & all exposed surfaces, backfilling, removal of surplus earth for all leads within the complex limit etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge. For following Valve size and Brick Class (All materials including Cement supplied by contractor)				
239	Dia - 50 mm, Brick Class - 5)	2	EACH	2,50,000.00	5,00,000.00
240	Providing and fixing approved stone ware 100mmx100mm dia. gully trap as per tender specification, including grating with CI frame and cover 300mmx300mm including brick masonry (brick class shall be as mentioned below) chamber in 1:4 cement mortar(1 cement: 4 sand) on M-20 grade cement concrete foundation, plastered inside and outside surfaces with 1:3 cement mortar (1 cement: 3 sand) with 13mm average thickness including providing and fixing light duty CI frame and cover, painting CI frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat, earth work in excavation, backfilling, removal of surplus earth, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry etc. all complete as per drawings, specifications and directions of Engineer-in-Charge				

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241	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	2,500.00	5,000.00
242	Construction as per(Design basis & general technical specification) of brick masonry (brick class shall be as mentioned below) inspection chambers/manholes of 750mmx750mm internal size 1000mm deep(Max.) in cement mortar 1:4 (1 cement: 4 sand) with CI frame and cover 500mm clear dia, (circular Medium duty of grade MD-10) conforming to IS:1726 fixed on RCC slab of M-30 grade, necessary excavation, supplying, fixing 4 Nos. 16mm dia M.S. rungs, M-20 grade foundation concrete 1:3 cement mortar(1 cement: 3 sand) plastering of 13mm average thickness for inside & 16mm avg. thickness for outside exposed surfaces, backfilling, disposal of surplus earth upto a lead of 100M, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry, painting the C.I.frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat etc. all complete as per drawings, specifications and directions of Engineer-in-Charge.				
243	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	4,700.00	9,400.00
244	Construction, supplying, installation, testing and commissioning of septic tank as per standards and IS:2470 Part-I , with all necessary accessories like inlet, outlet vent pipes, manhole covers, rungs etc. including earthwork in excavation in all type of soil except soft and hard rock, backfilling and disposal of surplus earth for all leads etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge				
245	All material including cement supplied by contractor for (Users - 10 NOS)	1	Nos	2,50,000.00	2,50,000.00
246	**MISCELLANEOUS ITEMS**				
247	Supplying and fixing in position entrance gate in complex boundary wall fencing manufactured out of steel frame work and square MS bars of 20 mm at 100 c/c and horizontal name plate band at lock rail level suitably hinged with box type steel post embedded in cement concrete i.e. providing the tension bar for smooth operation and locking arrangement etc. complete as per tender specification, including painting with two coats of anti-corrosive paint and two coats of approved aluminium/synthetic enamel paint etc. complete as per drawings, specifications and directions of Engineer-in-Charge.				
248	4.0M clear opening width of gate in two panels.	3	Nos	5,00,000.00	15,00,000.00
249	Supplying & Laying interlocking Paver Blocks for roads, footpaths and any other place etc. including providing 50 mm thick sand filling below Paver Blocks including compaction of sand layer, filling the joints by dry sand, providing precast kerb stone of PCC M-20 at edges, including preparation of compacted sub-grade etc. all complete as per drawing, standard and directions of Engineer-in-Charge. (All material including cement supplied by contractor, paver blocks shall confirm to IS: 15658. cloour and shape of paver block shall be as per owner requirements for following thickness of paver blocks				
250	(Thickness - 60 mm)	385	M2	2,650.00	10,20,250.00
251	Supply and installation on terrace, high density polyethylene drinking water circular tank as per IS:12701 and ISI marked including supply and installation of all fittings, cover with suitable locking arrangement, float valve, making necessary holes for inlet, outlet and overflow connection and vent pipe etc. and the base supports for tank including supply of all necessary material all complete as per specifications and directions of Engineer-in-charge. (Sintex or equivalent having valid ISI license) for following capacities.				
252	capacity - 500 litre	2	Nos	18,500.00	37,000.00
253	Supplying, installation, testing and commissioning of Upflow Anaerobic Filter with bleaching tank as per TE Std. Drawing with all necessary accessories like, Upstream inlet CI piping from septic tank, Downstream outlet RCC NP2 class piping up to surface storm water drains, CI pipes for filter chamber, CI valve, RCC pre-cast pit covers, steps, perforated pre-cast slabs etc., inlet chamber, Filter chamber, deluding chamber including earthwork in excavation in all type of soil including soft rock, backfilling with murrum or approved soil arranged by the contractor, disposal of surplus earth etc. complete as per drawings, specification and direction of Engineering-Charge (All materials including cement shall be supplied by the contractor, Brick Class lower than 5.0 shall not be used). - Upto 10 Nos. user	1	Nos	2,00,000.00	2,00,000.00
254	**DEMOLISHING AND DISMANTLING**				
255	**Brickwork**				

	ANNEXURE - I **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. CORRTECH ENERGY LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
256	Demolishing BRICKWORK (taking all necessary safety precautions) for all depths below plinth level including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	250.00	2,500.00
257	Demolishing BRICKWORK (taking all necessary safety precautions) for all heights above plinth level including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	300.00	3,000.00
258	**RCC**				
259	Demolishing RCC WORK (taking all necessary safety precautions) for all depths below plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	2,000.00	20,000.00
260	Demolishing RCC WORK (taking all necessary safety precautions) for all heights above plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	2,500.00	25,000.00
261	**PCC**				
262	Demolishing PLAIN CEMENT CONCRETE work (taking all necessary safety precautions) for all depths below plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc. disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation and backfilling shall be paid separately under relevant items)	10	cum	3,000.00	30,000.00
263	**MISCELLANEOUS ITEMS (REFER TE SPECIFICATION)**				
264	Sand Filling				
265	Supplying and filling approved SAND of specified quality under floors, in foundations, plinths, tank foundations etc. for all depths and heights including cost of sand,royalties,transportation to site for all leads and lifts, including loading, unloading, spreading in layers of loose thickness not exceeding 150 mm,watering,ramming,compacting with mechanical compactors and/or other equipment to the specified levels to achieve 85% relative density as per IS:2720 Part XIV,including preparation of subgrade to the required slope, providing testing apparatus and testing the degree of consolidation all complete as per drawings, specifications and direction of Engineer-in-charge. The rates shall be inclusive of the cost of all labour,material,equipments etc. all complete .	120	cum	2,850.00	3,42,000.00
266	**SAND GRAVEL MIX**				
267	Supplying and filling sand gravel mix (1:1) with approved aggregate below road, RCC pavement, manholes, pits, foundations, bedding of UG piping etc. in layers of 150 mm loose thickness (maximum) including watering, ramming, rolling, compacting to achieve 85% relative density as per IS 2720 Part-XIV, quarrying, royalties, transportation, handling, etc. all complete as per drawings, specifications and directions of Engineer-in- Charge. (The rate shall be inclusive of the cost of all labour, material, equipment etc. all complete)	122	cum	2,000.00	2,44,000.00
268	**GROUTING WITH NON-SHRINKABLE COMPOUND**				
269	Providing and laying manually or by pumping at all positions a ready mix non-shrink cementitious grout of compressive strength specified below for specified works e.g. pipe support, base grouting of rotating equipment and other installation complete in all respects as per scope of work, detailed construction drawings , technical specifications and directions of the Engineer-In-Charge.				
270	Having compressive strength of 30 N/mm2 , Per bag of 25 Kg	100	Bags	1,000.00	1,00,000.00
271	Having compressive strength 45 N/mm2 , Per bag of 25 Kg	20	Bags	1,200.00	24,000.00

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	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010			PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
				Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
272	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains, SS trench of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.	10	SQM	8,500.00	85,000.00
273	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, leve and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	17	M3	8,000.00	1,36,000.00
274	Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M-25, of size 1000x450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos. cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of the Engineer-In-Charge.	630	EACH	3,500.00	22,05,000.00
275	**Borewell and recharge well**				
276	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job all complete as per drawing, direction of Engineer -in-charge, in all types of soil :	130	M	1,400.00	1,82,000.00
277	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge.	130	M	400.00	52,000.00
278	Providing and fixing Bail plug/ Bottom plug of required diameter to the bottom of pipe assembly of tubewell as per IS:2800 (Part-I). :150mm dia	3	EACH	5,000.00	15,000.00
279	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	4,000.00	20,000.00
280	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	3,500.00	17,500.00
281	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	3,200.00	16,000.00
282	Gravel packing in tubewell construction in accordance with IS:4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of the Engineer-In-Charge.	3	M3	3,000.00	9,000.00
283	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS:4270, of reputed & approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size dia having minimum wall thickness 5.00 mm	5	M	5,000.00	25,000.00
284	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	60	M	450.00	27,000.00
285	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/ 3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS:8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	25	M	500.00	12,500.00
286	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of 150 mm diameter	1	Nos	15,000.00	15,000.00
287	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS:2800 (Part-I), including necessary bolts & nuts of required size complete 150 mm diameter.	1	Nos	1,500.00	1,500.00

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				Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022
	M/s. CORRTECH ENERGY LIMITED				
S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
288	Supply, Installation and commissioning of 1.5HP Borwell Submersible Pump	1	EACH	65,000.00	65,000.00
289	Supply and Installation of 3Cx10Sqmm Copper Flat Cable	200	M	150.00	30,000.00
290	**LANDSCAPING**				
291	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment).	810	M3	850.00	6,88,500.00
292	Fine dressing of the ground.	2700	M2	120.00	3,24,000.00
293	Providing & laying Selection no. 1 grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden and than rolling the surface with light roller make the surface smoothen and light watering the same maintenance for 30 days or more till the grass establish properly,as per direction of officer in charge	2700	M2	1,500.00	40,50,000.00
294	Conducting topographical ground/land survey in the specified area as shown in the tender drawings by conventional/GPS or any other standard method, covering details of physical features like Rivers, Nallahs, Lakes, Ponds, wells, pits, Forest, Trees, Roads, culverts, transmission lines, telegraph/ telephone and electric poles, underground or any other services, cross drainage works including cross sectional details of nallah etc. including establishing high flood level with source of information, identification of any monument, historical structure, wild life sanctuary in the vicinity, storm water disposal point with levels, cross-section details of nallah, recording spot levels, top level of nearest state highway or National Highway, including providing in tabulation girth wise no. of trees etc as specified, plotting and developing topographical contour maps, showing true north including establishing survey reference stations, key plan etc. including all equipment's, instruments, personnel's, clearing of bushes as per requirement for intervisibility to carry out survey work etc. , complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of drawings/map and supply of electronic files. Note: Survey work shall be carried out by survey agency approved by Contractor and sample spot witness of levels cordinates by PMC, and shall be submitted to PMC/Owner for review.Survey drawing will be provided in A0 size with clear visibility of all the spots/levels/ contoure and Bench marks. Permanaet bench mark will be stabished at site in a 450x450 mm size 600mm high bick masonry piller.	6950	M2	50.00	3,47,500.00
295	**GEO TECHNICAL INVESTIGATION (Z/02/0022)**				
296	Conducting soil investigation with boring including all field tests and laboratory tests, mobilization and demobilization of equipments & personnel etc. for soil investigation for each borehole location. complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of Reports & recommendations and supply of electronic files.	5	Nos	2,50,000.00	12,50,000.00
297	**ANTI-TERMITE TREATMENT**				
298	Supplying chemical emulsion in sealed containers including delivery as specified in the Technical Specifications.				
299	**Chlorpyriphos/ Lindane emulsifiable concentrate of 20%**	200	LITRE	350.00	70,000.00
300	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
301	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc. as per Techinal specifications and direction of engineering in charge: With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	80	METRE	200.00	16,000.00
302	Treatment of soil under floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the floor:				
303	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	250	SQM	480.00	1,20,000.00
304	Supply and installation 60mm dia GI pipe for column support of gate	15	M	1,500.00	22,500.00
305	Supply and installation 100mm dia MS pipe	15	M	1,000.00	)00.00

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. CORRTECH ENERGY LIMITED

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306	Supply and installation 50mm dia MS pipe	15	M	700.00	10,500.00
307	Supply and installation of U-PVC pipes (working pressure 4 kg / cm²) Single socketed pipe 75 mm dia for weep holes	300	M	800.00	2,40,000.00
308	**Sub-Total Section C**				**10,64,10,950.00**
309	**SECTION-D [CATHODIC PROTECTION WORKS]**				
310	**Cathodic Protection system**				
311	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning & Monitoring of the temporary cathodic protection [TCP] system using galvanic anodes to protect the external surface of the pipeline against soil-side corrosion for minimum 2 year or till commissioning of permanent CP system whichever is later . All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard drawings and vendor list as attached with this tender and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	31,92,697.00	31,92,697.00
312	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning of permanent cathodic protection system for 40 years. The scope of work also includes post commssoning surveys and repair of coating/ rectification of cathodic protection system based on the post commissioning surveys. In additon to the same, AC Interference study on the pipelines to be performed and mitigation measures takes to the satisfaction of Owner/ CONSULTANT. All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard and vendor list attached and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	37,60,004.00	37,60,004.00
313	**Sub-Total Section D**				**69,52,701.00**
314	**SECTION-E [ELECTRICAL WORKS]**				
315	**ELECTRICAL**				
316	**SWITCH BOARDS / UPS SYSTEM/ PANEL**				
317	Supply , Installation, testing and commissioning of LT Switch-boards, AC UPS system with UPS Distribution board & Ni-Cd Battery banks , distribution boards, cubicles with electrical equipment, misc. electrical panels etc., including transportation from store/yard to site at the place of installation, unpacking, assembly, including mounting and wiring of loose parts supplied by equipment vendor, interconnection of shipping sections and requisite inter-panel wiring between shipping sections, including supply of all wiring materials, installation on foundations or fixing to wall or steel structures, aligning, levelling, grouting, including all labour and materials, as per approved drawings, specifications of this tender and directions of Engineer-in-Charge.				
318	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted MEDB	2	Nos	3,33,333.00	6,66,666.00
319	Supply , erection , termination , earthing and commissioning of wall mounted OLDB as per single line diagram of DT stations	1	Nos	1,11,111.00	1,11,111.00
320	Supply , erection , termination , earthing and commissioning of wall mounted ILDB as per Single line diagram of DT stations	1	Nos	55,556.00	55,556.00
321	Supply , erection , termination, earthing and commissioning of wall mounted SSDB as per Single line diagram of DT stations	1	Nos	55,556.00	55,556.00
322	Supply , erection , termination , earthing and commissioning of wall mounted AC DB as per Single line diagram of DT stations	1	Nos	77,778.00	77,778.00
323	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 6 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of DT stations	1	SET	7,77,778.00	7,77,778.00
324	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for DT stations.	1	SET	8,88,889.00	8,88,889.00

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				Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022
	M/s. CORRTECH ENERGY LIMITED				
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325	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 1 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of RT stations	1	SET	2,22,222.00	2,22,222.00
326	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for RT stations.	1	SET	3,33,333.00	3,33,333.00
327	Supply , erection , and commissioning of 415 V SFU as per Single line diagram of DT stations including liasioning with SEB as per Tender specification and direction of Engineer- In charge.	1	Nos	55,556.00	55,556.00
328	**POWER AND CONTROL CABLE**				
329	Supply , laying , termination , erection and testing of 1.1 KV Power and control FRLS PVC Outersheath, XLPE insulated, armored Cables . Outdoor cable will be laid in buried cable trench and in Indoor cable will be laid in Cable trench by provision of Cable tray and supports inside the trench as per PTS - Electrical package P.017110 G 11077 E002				
330	3.5C x 95 sqmm AL FRLS XLPE	300	M	477.00	1,43,100.00
331	3.5C x 70 sqmm AL FRLS XLPE	100	M	361.00	36,100.00
332	3.5C x 50 sqmm AL FRLS XLPE	50	M	307.00	15,350.00
333	3.5C x 25 sqmm AL FRLS XLPE	100	M	**196.00**	19,600.00
334	4C x 16 sqmm CU FRLS XLPE	100	M	489.00	48,900.00
335	3C x 2.5 sqmm CU FRLS XLPE	170	M	82.00	13,940.00
336	3C x 6 sqmm CU FRLS XLPE	250	M	251.00	62,750.00
337	4C x 6 sqmm CU FRLS XLPE	350	M	348.00	1,21,800.00
338	2C x 6 sq.mm CU FRLS XLPE	100	M	86.00	8,600.00
339	2.5 sqmm Cu. Wire	1800	M	97.00	1,74,600.00
340	6 sqmm Cu. Wire	600	M	323.00	1,93,800.00
341	**Earthing & Lightning**				
342	Supply , Installation , testing and comissioning of GI Earth electrodes & Cu plate type earth pit complete with earth pit as per IS 3043, PTS-Electrical package and all necessary material including exacavation of earth pit , filling with charcol and salt , back filling, brick work , connections including all labour and materials as approved drawing and specification of this tender and direction of Engineer-In charge.				
343	**GI Earth Electrodes**				
344	65mm dia x 3000 mm L GI pipe electrode type Earth pit	15	Nos	16,667.00	2,50,005.00
345	**Cu plate Earth Electrode**				

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346	600x600x3mm Cu plate type Earth pit	8	Nos	20,000.00	1,60,000.00
347	**Earth strip and wire**				
348	50x 6 mm GI Flat strip	850	M	389.00	3,30,650.00
349	25 x 6 mm Cu Flat strip	50	M	889.00	44,450.00
350	2.5 Sqmm Cu wire	250	M	356.00	89,000.00
351	25 x 6 mm GI Flat strip	200	M	778.00	1,55,600.00
352	10 Sq.mm earthing cable	250	M	278.00	69,500.00
353	GI Earth Bus 50x 6 Sq.mm with all installation assesories	3	Nos	5,000.00	15,000.00
354	Cu. Earth Bus 50x 6 Sq.mm with all installation assesories (in control room)	4	Nos	6,111.00	24,444.00
355	25x3 mm GI Flat for Lightning as well as down conductors for DT station as per overall earthing layout and GGNG-E-20713-3007	80	M	500.00	40,000.00
356	Other lightning assesories like 20mm dia copper rod, hollosphere ,200x200x6mm ms plate ,anchor/fastner ,test links for DT station as per overall earthing layout and GGNG-E-20713-3007	1	LOT	27,778.00	27,778.00
357	**OUTDOOR Lighting**				
358	Supply , erection , Testing & commissioning of Outdoor area lighting system including with supply of flameproof / weather proof light fixture , pole , junction box and earthing including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender & Overall outdoor lighting layout of DT & RT station and directions of Engineer- In charge.				
359	100W FLP LED Fixture & FLP Junction box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	4	Nos	24,444.00	97,776.00
360	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	2	Nos	1,72,222.00	3,44,444.00
361	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in RT Stations.	7	Nos	1,72,222.00	12,05,554.00
362	1x160W FLOOD LED Fixture with weather proof junction box & 9 mtr high pole with all assesories for open area	9	Nos	34,444.00	3,09,996.00
363	1x70 W Solar type Street LED Fixture with weather proof junction box, VRLA Battery (72 hrs backup time) & 9 mtr high pole for street lighting	6	Nos	1,38,889.00	8,33,334.00
364	1x27 W Post Top Lantran LED Fixture for Gate with weather proof junction box for Gate lamp	2	Nos	9,444.00	18,888.00
365	1x36 W LED industrial fixture suitable to building parapet /wall with all assesories like weather proof junction box/clamp/reducer/	2	Nos	10,556.00	21,112.00
366	**INDOOR Lighting**				
367	Supply, erection, Testing & commissioning of Indoor building area lighting system including with supply of light fixture, point wiring including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender and directions of Engineer- In charge.				

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368	2x20 W LED recessed decorative fixture for control room	5	Nos	5,000.00	25,000.00
369	2x20W LED Industrial Fixture for Electrical room	2	Nos	4,444.00	8,888.00
370	1x40W LED Flameproof Fixture for Battery room	1	Nos	23,333.00	23,333.00
371	2x18W LED Industrial Fixture for Varanda/Toilet/ water cooler area/ Guard room	6	Nos	3,556.00	21,336.00
372	1x36W LED Industrial Fixture	4	Nos	3,000.00	12,000.00
373	2x20 W LED recessed decorative fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) control room.	2	Nos	25,000.00	50,000.00
374	2x20W LED Industrial Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Electrical room	2	Nos	25,000.00	50,000.00
375	1x40W LED Flameproof Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Battery room	1	Nos	35,333.00	35,333.00
376	**Switch socket**				
377	Supply and Installation of single/ three phase Switch socket as per Indoor Illumination layout for DT & RT and PTS-Electrical Package and directions of Engineer-In Charge				
378	5/15A surface type switch socket (1 Ph)	7	Nos	2556	17,892.00
379	5A flush type switch socket (1 Ph)	4	Nos	2,333.00	9,332.00
380	16A Switch socket (I Ph)	3	Nos	2,222.00	6,666.00
381	20A Switch socket for AC (1 Ph)	4	Nos	3,000.00	12,000.00
382	Flame proof Junction box for Exhaust fan in Battery room	2	Nos	5,000.00	10,000.00
383	32A Switch socket for welding receptacles (3 Ph)	1	Nos	10,556.00	10,556.00
384	Modular switch board	12	Nos	1,667.00	20,004.00
385	**FANS and Exhaust FAN**				
386	Supply ,Installation and testing of Ceiling Fan and Exhaust fan with louvers including all labours and materials as per Indoor Illumination layout for DT and PTS-Electrical Package and directions of Engineer-In Charge				
387	Ceiling Fan 230V AC 1200 mm sweep	3	Nos	2,889.00	8,667.00
388	450 mm FLP Exhaust Fan for Battery room	2	Nos	20,000.00	40,000.00
389	200 mm Exhaust Fan for Toilet	1	Nos	2,222.00	? ?22.00

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390	300 mm Exhaust Fan for Electrical room/ CO2 room	3	Nos	5,000.00	15,000.00
391	**Air conditioning unit**				
392	Supply ,Installation and testing of Five star 1.5 Ton Split AC with outdoor compressor unit including all labours and materials as per Typical Indoor Illumination layout for DT and directions of Engineer-In Charge				
393	Split Air condition Five star 1.5 Ton	4	Nos	61,111.00	2,44,444.00
394	**Hardware and other Accessories**				
395	Supply and Installation of Hardware and other accessories including all labours and materials as per Tender specification PTS-Electrical Package P.017110 G 11077 E002 and directions of Engineer-In Charge				
396	Rubber mat	15	M	2,778.00	41,670.00
397	Rubber hand gloves	1	PAIR	1,667.00	1,667.00
398	Warning Marker	1	Nos	1,667.00	1,667.00
399	PVC Conduit with bend ,tee and other required assesories	1	LOT	55,556.00	55,556.00
400	CAUTION Board & Sock treatment chart	1	Nos	2,778.00	2,778.00
401	Cable route marker as per Standard drawing TE-IN-STD-G-0327	1	LS	44,444.00	44,444.00
402	Fire extingusher and SAND Bucket with Stand	1	SET	72,222.00	72,222.00
403	Ladder type Cable tray - hot dip Galvanized Prefabricated 450 mm wide	55	MTR	1,056.00	58,080.00
404	Perforated type Cable tray hot dip Galvanized Prefabricated 450 mm wide	35	MTR.	1,944.00	68,040.00
405	**Cable Glands**				
406	Cable Glands : Flame proof IIA/IIB double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
407	Cables with upto OD 20 mm & above OD 20 mm as per Single line diagram of DT & RT station	1	LOT	88,889.00	88,889.00
408	Cable Glands : Weather proof double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
409	Cables with upto OD 20 mm to 40 mm as per Single line diagram of DT & RT station	1	LOT	96,667.00	96,667.00
410	**Sub-Total Section E**				**92,74,869.00**
411	**SECTION-F [INSTRUMENTATION WORKS]**				

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412	**INSTRUMENTATION**				
413	**SUPPLY**				
414	Supply of Pressure Transmitter along with 2 valve manifolds with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	57,778.00	2,88,890.00
415	Supply of Pressure gauge including high range along with 2 valve manifolds with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	18	Nos	6,111.00	1,09,998.00
416	Supply of Pressure gauge including Low Range along with 2 valve manifolds, gauge saver with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	3	Nos	5,000.00	15,000.00
417	Supply of temperature element (RTD) along with flanged thermowell mounted for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	27,778.00	1,38,890.00
418	Supply of Temperature Transmitter with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	7	Nos	68,889.00	4,82,223.00
419	Supply of skin type temperature element (RTD) for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I003), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	2	Nos	30,000.00	60,000.00
420	Supply of Local control panel with all accessories as per Data sheet (P.017110 G 11087 I011), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, SAT of local control panel,supports/ frame fabrication, earthing and screwing plug for unused entries, painting and integration with RTU. Termination of all Other panel SCADA hard wired signal including RS-485 signals through LCP for RTU/SCADA by Bidder. 1. Digital Barriers 2. Analog Barries 3. Relays 4. three poisition selector switch 5. LED indication lamps 6. Push buttons 7. terminal blocks 8. internal wiring 9. MCBs 10. Door switches 11. cooling Fan 12. LED lights	2	Nos	2,77,778.00	5,55,556.00
421	Supply of Ex-proof junction box with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, iincluding Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.	4	Nos	20,000.00	80,000.00
422	Supply of Corrosion Monitoring system with corrosion coupon, Corrosion probe, transmitter and digital indicator (mounted in LCP) as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				

Prepared Checked Approved

	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. CORRTECH ENERGY LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
423	Corrosion coupon along with accessories.	2	Nos	6,00,000.00	12,00,000.00
424	Corrosion probe along with transmitter, digital indicator, barriers and accessories.	2	Nos	9,00,000.00	18,00,000.00
425	Supply of Conventional Type Microprocessor based fire detection system along with smoke detector, heat detector, cabinet, manual call point, Independent 24 Hrs battery backup with 15 min in alarm state, repeater panel and Electrical Operated Siren, exit signs and cables fromsensor ,MCP, siren, hooter to controller as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
426	Controller along with cabinet along with cabling	1	Nos	1,33,333.00	1,33,333.00
427	Multisensor (smoke & heat)	10	Nos	5,000.00	50,000.00
428	WP IP 65 Manual call points	6	Nos	4,444.00	26,664.00
429	Ex Proof and WP IP 65 Manual call point	1	Nos	19,444.00	19,444.00
430	WP Hooter & Flasher	1	Nos	4,222.00	4,222.00
431	Repeater panel	1	Nos	57,778.00	57,778.00
432	Exist sign	6	Nos	6,222.00	37,332.00
433	Electrical siren Exd	1	Nos	27,778.00	27,778.00
434	24 Hrs battery backup	1	Nos	27,778.00	27,778.00
435	Supply of Conventional type gas detection system along with controller, ex proof point gas detectors, beacon hooter, flasher, , cabinet, portable gas detector, calibration kit, alignment kit as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
436	Controller with cabinet	1	Nos	1,16,667.00	1,16,667.00
437	Point gas detectors	12	Nos	1,83,333.00	21,99,996.00
438	Panel Mounted hooter	2	Nos	3,889.00	7,778.00
439	Dual tone Hooter & Beacon Ex"d" with reset push button	2	Nos	10,889.00	21,778.00
440	Portable gas detecotrs	1	Nos	53,333.00	53,333.00
441	Calibration kit	1	Nos	1,27,778.00	1,27,778.00
442	Ex d Junction Box	2	Nos	21,111.00	42,222.00

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	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. CORRTECH ENERGY LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
443	Supply of Universal type Hand Held Configurators for transmitters with carrying case, rechargeable batteries (one working and one standby), and battery charger as per Data sheet,PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work	1	Nos	1,57,778.00	1,57,778.00
444	Supply of Instrumentation signal cable, control cable, communication cable/LAN cable, Power cables along with all sizes cable glands (WP & Exd), PVC hood, lug, ferrule, etc including Cable laying (buried as well as tray) along with termination, glanding, meggering and loop checking including supply of ferrule, lugs, cable tie, cable clamp, cable marker etc. as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.				
445	1Px 1.5mm2	500	MTRS	180.00	90,000.00
446	12Px 0.5mm2	900	MTRS	394.00	3,54,600.00
447	1Qx1.5mm2	30	MTRS	94.00	2,820.00
448	12Tx1.5mm2	200	MTRS	567.00	1,13,400.00
449	1Tx1.5mm2	180	MTRS	39.00	7,020.00
450	6Px0.5mm2	200	MTRS	211.00	42,200.00
451	2Px1.5mm2	200	MTRS	244.00	48,800.00
452	Cat 5 (LAN)	160	MTRS	2,222.00	3,55,520.00
453	3C x 2.5mm2	240	MTRS	344.00	82,560.00
454	Supply & laying of Instruments cable tray with tray cover (Branch Cable tray (50mm x 50mm), Main cable tray 900 mm, cable tray 300mm, cable tray 150 mm.) as per requirement, instruments/ PGD, CCTV/ mounting poles, instrument protection sun sheds, angles, channels, MS plates & all the erection materials and as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including installation of support, cable clamping, installation of tray cover and support painting.	1	LS	3,88,889.00	3,88,889.00
455	Supply , installation & laying of tubes and fittings as per requirement and as per PTS-Instrumentation with appendices and Scope of Work C&I. SS 316L TEE (1/2", Class 3000#, Screwed, NPTF, Seamless) ,SS316L GLOBE/BALL VALVE (1/2", Class 800#, Screwed, NPTF, Seamless), SS316L PLUG (1/2", Screwed, NPTM, Hex head, class 3000#), SS316L PIPE NIPPLE (½" NPTM, seamless, schedule #160) Length of the pipe nipple as per requirement, SS316L MALE CONNECTOR (1/2" OD x 1/2" NPTM), SS316L FEMALE CONNECTOR (1/2"OD x 1/2" NPTF), SS316L UNION (1/2" OD), SS316L TUBE (1/2" OD x 0.065" WT), SS316L TUBE (1/4" OD x 0.035" WT)	1	LS	2,66,667.00	2,66,667.00
456	Supply of mandatory spares as per Mandatory Spare **(P.017110 G 11075 I001)**	1	LS	6,11,111.00	6,11,111.00
457	**AT Bokaro** Installation of metering skids, metering cabinet under the supervision of skid supplier, cable laying and terminal of cable from skid junction box to metering system cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	1,66,667.00	1,66,667.00
458	**AT Bokaro** Installation of gas chromatograph skid, analyser & controller cabinet under the supervision of skid supplier, cable laying and terminal of cable from analyser cabinet to controller cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	1,33,333.00	1,33,333.00
459	**AT Bokaro** Installation of H2S & Moisture analyser skids, cabinet under the supervision of skid supplier, laying and terminal of cable from skid field mounted cabinet to LCP/RTU. Including supply of all the required erection, fabrication and civil materials.	1	LS	1,33,333.00	1,33,333.00

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	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010			PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
				Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022
	M/s. CORRTECH ENERGY LIMITED				
S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
460	**Sub-Total Section F**				**1,06,39,136.00**
461	**SECTION-G [TELECOM WORKS]**				
462	**AT SV 01** Supply of Input out puts cards in existing Remote Terminal unit along with internal wiring at site and configruation of new parameters in existing RTU as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, Installation of Input out puts cards in existing Remote Terminal unit along with internal wiring at site, interfacing with LCP and configuration of new parameters in existing RTU, as per Scope of Work at SV 01				
463	32 channels digital input cards	1	Nos	39,667.00	39,667.00
464	16 Channel digital output cards	1	Nos	22,222.00	22,222.00
465	12 channel Analog input cards	1	Nos	15,556.00	15,556.00
466	Supply Telecommunication system, SDH equipment STM-4 Based SDH Cabinet of (2000H x 800W x 800W along with 100 mm base frame) as per below configuration: - 2*STM-4 + 2*STM-1 + 8FE ports as per PTS-Telecommunication system (P.017110 G 11077 I002), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including erection, testing, integration with existing NMS at Noida, Commissioning and integration with existing telecom system at SV 01 additional SFP of L4.2 for SV 01 connectivity	1	Nos	3,61,111.00	3,61,111.00
467	Supply of CCTV-IP based Fixed colour camera and PTZ colour camera along with power cable, communication cable at each station as per PTS-Telecommunication system (P.017110 G 11077 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work., including erection, testing, integration with existing VMS at Noida, Commissioning and integration with existing telecom system at SV 01				
468	Fixed Camera WP IP65	1	Nos	27,778.00	27,778.00
469	PTZ camera WP IP65	1	Nos	83,333.00	83,333.00
470	Supply of one Analog phones control room, one number in guard room and one number WP IP66 in field safe area as per PTS-Telecommunication system (P.017110 G 11077 I002) , PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work				
471	Analog Phone	2	Nos	5,556.00	11,112.00
472	Analog Phone Ex Proof WP IP 65	1	Nos	8,889.00	8,889.00
473	FXO cards	1	Nos	10,000.00	10,000.00
474	FXS	1	Nos	50,000.00	50,000.00
475	Five pair armoured telephone cable, size 0.5mm2	100	MTR	28.00	2,800.00
476	**AT Bokaro** Free issue RTU by GAIL: Transportation from Gail store to site location, installation, cabling from LCP to RTU, commissioning etc. Erection, installation of RTU inside the station control room including supply of all the required erection materials, fabrication and civil works	1	LS	72,222.00	72,222.00
477	**Sub-Total Section G**				**7,04,690.00**
478	Total of Section A + B + C + D + E + F + G				**28,72,97,599.00**

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	ANNEXURE - I **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. CORRTECH ENERGY LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
479	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Total of Section A + B + C + D + E + F + G above	18	percentage		5,17,13,567.82
480	Rate of Extended Stay Compensation per month beyond the time schedule and grace period mentioned in Bidding document for reasons solely attribute to Owner (exclusive of GST) Notes:- 1;- Extended Stay Compensation shall be loaded on the quoted price as per evaluation methodology. 2;- In case, no rate for extended stay compensation is stipulated, it will be considered that extended stay compensation is not required by the Bidder and the rates quoted by them shall be valid till completion of works in all respects.	1	Nos		10,00,000.00
481	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Extended Stay Compensation at Sl. No. 480 above	18	percentage		1,80,000.00
	Grand Total				34,01,91,166.82

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Approved

TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**			**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL**	**Rev.00** **Date-11.02.2022**
				Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**

M/s. ENPROCON ENTERPRISE LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
				UNIT RATE	TOTAL RATE
1	**SECTION-A (MAIN LINE WORKS)**				
2	**CH.0.00 KM to CH.23.436 KM**				
3	**MAINLINE, PIPING AND MECHNICAL**				
4	**PIPELINE LAYING / INSTALLATION** Laying/ installation of coated line pipe, associated fittings and accessories, etc. as per specifications, drawings, other provisions of Contract and instructions of Engineer-in-Charge, including but not limited to carrying out the following: "Receiving and taking-over", handling, loading, transportation and unloading of Owner supplied coated and bare line pipes and other Free Issue Materials from Contractor's own stock-yard to Work site including stringing on the pipeline Right-of-Use (ROU), Arrangement of all additional land required for Contractor's storage, Performing the additional survey wherein survey data is not sufficient in the opinion of Contractor, arrangement of working RoU if RoU width is not sufficient for equipment/ vehicle movement etc., access for construction (other than Owner provided ROU; Developing necessary access way to the worksite, including earth filling, levelling, etc.; supply of all materials (except Owner supplied materials), supply of all materials, consumables, equipment, labour, etc.; fabrication, Staking and installation of construction markers, clearing, grubbing, grading (as required) of Right of Use; clearing and grading of ROU; Cutting/ uprooting of shrubs, plants, vegetation within ROU; , Trenching to all depths and to a width to accommodate the pipeline with optical fiber cable (inside HDPE Duct) by excavation in all types of soil (in case of hard rock, additional payment for hard rock breaking will be paid as per separate SOR line item), including additional trenching for seismic and other areas as specified,(Rate for laying of optical fibre cable and HDPE Duct not be included here and same to be quoted against separate SOR item); Carrying out repairs of pipe and coating defects not attributable to Owner; Thorough internal cleaning of all pipes by suitable methods to remove debris, shots, grits etc.; Stringing of line pipes along ROU including providing straw bags, soft padding/sand padding; Aligning, cold field bending, cutting and beveling (as required) of pipes for welding and field adjustments, NDT & NDT of re-beveled area, welding, carrying out destructive & non- destructive testing of welds required as per approved NDT specifications (including radiography) and providing all requisite equipment, labour, supervision, materials, films, consumables etc.; carrying out repairs of weld joints as required, carrying out re- radiography and other non-destructive tests on repaired joints, etc.; Installation of carrier pipe including concrete coated pipes (wherever required),				
5	(Concrete Coating on pipes, covered separately) at all crossings including roads/ canals/ nala/ water crossings etc. (supply and installation of casing pipe by open cut or by Jacking/ boaring method covered separately) including pre-testing as required; Carrying out installation of carrier pipe in the casing pipe at cased crossings; Coating of all field weld joints, long radius bends (fabrication of Cold field bends covered here and fabrication of 6D bends by induction heating covered separately), buried fittings etc.; Supply & Installation of warning tape along the entire length of Pipeline including Crossing. Lowering the pipelines in trench, providing required padding over and around the pipeline with sand/graded material (in rocky areas), backfilling with available approved excavated material and/or other suitable soil (supply and providing of soft soil for pre & post padding in Rocky area); Supply and installation of slope breaker as per specifications and drawings in steep slope areas, wherever required; Carrying out hydrostatic testing including air cleaning, flushing, filling, gauging, pressurization of complete pipeline in various test sections as approved by Engineer-In-Charge to the specified test pressure, providing all equipment, pumps, fittings, instruments, dead weight tester, all types of pigs etc., and services, supervision, labour, consumables, arranging water required for hydrostatic testing including supply of corrosion inhibitor, air, etc. as required, locating of leaks and rectification of defects attributable to Contractor, re-testing after rectification, successful completion of hydro-testing of pipeline (De-watering covered else where in the SOR); including all tie-in(s) with the pipeline/ piping installed by others including cutting of test header, re- beveling as required; Carrying out all temporary, ancillary, auxiliary works and all incidental works required to make the pipeline ready for pre- commissioning; Carrying out EGP for the entire stretch of completed pipeline, Repair of defects recorded during EGP/gauge plate run or otherwise including cutting, beveling, welding, NDT, field joint coating etc.; as applicable, Final clean-up and restoration of right of use including obtaining NOC from respective statutory authorities as required and disposal of debris and returning all surplus material to designated disposal areas/storage yard, as directed by Engineer-In-Charge; Restoration of land, facilities and boundary wall etc. at associated facilities dismantled/damaged by the Contractor during construction; Obtaining work permits/ NOC from various statutory authorities having jurisdiction and complying with all stipulation/conditions/recommendation of the said authorities; Preparation of as-built drawings, pipe-book and other records. SOR shall be read in conjunction with Project drawings, scope of work, specifications, standards and other provisions of contract document. The work includes the Survey data & site preparation, Stringing/Chainges in direction, Beveling of pipe element, Welding Procedure Qualification & Welders Qualification, Welding of pipe element, Inspection & testing of production welds, Field joint coating, controlled blasting, chiseling, etc., Material hand over & material handling, Lowering-in & ballasting, All crossings except HDD as mentioned in Crossing List (including installation of carrier pipe inside the Casing at cased crossing) , Backfilling (for all depths in all types of soil, soft /hard rock) , including trench padding with sand, graded earth in rocky areas & rock shield(if required as per specs) reinstatement (restoration) and preparation of As-built Alignment & Crossing drawings.				

Prepared | Checked | Approved

TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. ENPROCON ENTERPRISE LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
6	All above works shall be executed in accordance with scope of work, GTS, PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. 1. Supply and Installation of OFC and HDPE Ducts along the entire pipeline route, adjacent to the new pipeline, along with all required accessories, fittings and associated items, is covered separately in the SOR. All above works for buried pipeline (including hook-up pipeline from Tap Off Point inside ONGC GCS, Bokaro upto proposed plot for GAIL DT), as per following details :				
7	ND12", API5L X70 - 6.4 mm	6500	M	2,800.00	1,82,00,000.00
8	ND12", API5L X70 - 7.1 mm	15850	M	2,950.00	4,67,57,500.00
9	ND12", API5L X70 - 8.7 mm	150	M	3,250.00	4,87,500.00
10	**Concrete slabs (Mechanical Protection) as per technical specifications** Supply, fabrication and installation of reinforced concrete weights. Reinforced steel size should be 8 mm. top and bottom at a rate of 200 mm c/c of precasted RCC 1:2:4 on pipeline of wall thickness of 75 mm thick and size as per specifications & Standard drawings and instructions of Owner/ Owner's representative including supply of consumables, materials, equipment, labor, supervision, all associated civil works.	382	M	3,000.00	11,46,000.00
11	**Continuous Concrete Coating** Supply of all consumables and materials, equipments, manpower, submission of application procedure with calculations for anti-buoyancy, design mix procedure qualification and application of continuous concrete weight coating thickness mentioned below (higher also, in case design requirements) on pipeline of all thickness, concrete weight coating of the field joints thereof, and performing all works as per specifications and instructions of Owner/Owner's representative and other provisions of CONTRACT DOCUMENT.				
12	35 mm thick	12	M	4,000.00	48,000.00
13	50 mm thick	12	M	5,000.00	60,000.00
14	**GEO TEXTILE BAGS FOR ANTI-BUOYANCY**				
15	Additional works over and above item no. 4 to 9 for design, manufacture and supply of Non-biodegradable geo-textile bags and installation of geo-textile bags duly filled with gravel/ stone ballast on pipelines of all wall thicknesses for anti-buoyancy, drawings, scope of work and instructions of Engineer-in-Charge and other provisions of the Contract document. Note: This item shall be applicable for Some crossings as per instructions of Engineer-incharge.				
16	ND12" (for all thicknesses)	12	M	2,200.00	26,400.00
17	**Permanent Markers** Supply, fabrication and installation of following types of permanent markers along the pipeline route including all associated civil works such as excavation in all types of soil, construction of pedestals and grouting with concrete, clearing, supply & application of approved color and quality of primer and paint, stencil letter cutting for numbers, direction, chainage, etc. restoration of area to original condition and performing all works as per drawings, specifications and instruction of Owner/Owner's Representative.				
18	Pipeline Warning Signs	35	Nos	9,500.00	3,32,500.00
19	Right-of-way boundary markers	94	Nos	1,900.00	1,78,600.00
20	Kilometer Markers	19	Nos	9,500.00	1,80,500.00
21	Aerial Markers	4	Nos	15,000.00	60,000.00
22	Navigable Waterway Markers	8	Nos	12,000.00	96,000.00
23	Directional Markers	297	Nos	9,500.00	28,21,500.00
	Repair of Defects in Pipe Coating (Attributable to OWNER)				

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
25	**Repair of Line Pipe Coating:** Supply of all coating repair materials as per the requirements of the relevant specifications, supply of all consumables, utilities, equipment, and all manpower required, pipe cleaning and surface preparation, repairing of coating defects (resulting in holiday in coating) and testing including all handling, transportation, etc. for line pipes, performing all works necessary for the completion of the works strictly in accordance with the relevant specifications and instructions of OWNER.				
26	**Repair of Holidays in Coating**	40	Nos	1,500.00	60,000.00
27	Repair of Cosmetic Defects in Coating: Description of same as in 25 above, but for repair of cosmetic defects in coating.	80	m2	1,200.00	96,000.00
28	Repair of Defects in Line Pipes				
29	Repair of OWNER supplied pipes of all wall thicknesses, recorded at the time of taking-over by CONTRACTOR at all places of work.				
30	Cutting and rebevelling	25	Nos	12,000.00	3,00,000.00
31	Jack out method	25	Nos	12,000.00	3,00,000.00
32	All works for locating burst (occurred during hydrostatic testing and tightness test attributable to Owner issued materials) including detecting burst, necessary repairing/replacing defective pipe lengths, including cutting out and removing the defective pipe, pretesting the replacement pipe, welding of replacement pipe into mainline and NDT of welding, repair and re-testing of defective welds, coating of welded joints, cleanup, retesting including providing all labor, materials, consumables and inputs other than OWNER supplied materials and performing all works as per drawings, specifications and directions of Owner/ Owner's representative. In case of pinhole leaks not easily detectable all works for locating leak (occurred during mechanical resistance test and tightness test attributable to Owner issued materials) including detecting leak, The Payment will be made as per actual efforts and based on Equipment and manpower Rate provided in SCC . Further replacement & retesting will be paid as above.	2	Per burst	40,000.00	80,000.00
33	**LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER) (FOR TERMINAL PIPING)** **LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER DUE TO FIM)** All works for leak/burst (occurring during hydrostatic testing) by necessary repair/replacement of defective pipe length, including cutting and removing out defective pipes, welding, NDT of welds, repair and re-testing of defective welds, painting of welded joints, clean-up, re hydro testing of the pipe segment including providing all necessary equipment, labour, materials, consumables and inputs other than Owner supplied materials and performing all works as per drawings, scope of work, specifications, standards enclosed with the Contract and directions of Engineer-in-Charge. Note: 1. This rate shall be applicable for manufacturing defects in Company supplied materials only.	18	Inch-meter	2,000.00	36,000.00
34	**IDLE TIME PRESERVATION OF PIPELINE** Preservation of complete pipeline and associated facilities and its maintenance including supply of all consumables, all equipment, man- power, etc., complete as per the requirements of specifications, scope of work, standards, other provisions of Contract document and instructions of Engineer-in- Charge. By filling and pressurizing with nitrogen including supply and maintenance of nitrogen as per following details:				
35	Pipe OD - 12 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - 3 MONTH	23800	M	14.00	3,33,200.00
36	Pipe OD - 12 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - FOR EVERY ADDITIONAL MONTH BEYOND INITIAL 3 MONTHS	23800	M	6.00	1,42,800.00
37	PRE-COMMISSIONING FOR NATURAL GAS PIPELINES SYSTEM, Carrying out pre-commissioning activities and pre-commissioning checks to the specified acceptance criteria, making the entire pipeline system ready for commissioning (It includes cleaning including magnetic cleaning, Electrical Geometrical Pigging survey, dewatering, swabbing,, pre-drying activity, Golden-tie ins connecting the stations),, supply of all equipment, man-power, consumables, including all type of pigs and required quantity of nitrogen, materials for all temporary works and performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.				

TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. ENPROCON ENTERPRISE LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
38	Pipe OD - 12 INCH	23800	M	12.00	2,85,600.00
39	**Commissioning Assistance**				
40	**OVERALL COMMISSIONING OF ENTIRE PIPELINE SYSTEM** Overall commissioning including system checks, inertisation (as required) and charging of entire pipeline system, including all stations and all associated facilities including notifying the Company that the pipeline system is ready for commissioning; Review of status jointly with the Company and obtaining final clearance for start of commissioning; Development and submission of commissioning procedures, obtaining Company approval thereupon, carrying out overall commissioning of the total pipeline system including all facilities and all necessary coordination/ liaison with other Contractor(s) operations; Carrying out commissioning; Supply of all equipment like Nitrogen vapourisers (as required), along with all piping and instruments, temporary venting/ flaring/draining facilities as applicable, man-power, consumables including pigs and required quantity of Nitrogen (as required); Performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.				
41	Pipe OD - 12 INCH	23800	M	15.00	3,57,000.00
42	PIPELINE INFORMATION MANAGEMENT SYSTEM Providing pipeline information management system using web based software for monitoring pipeline construction progress and providing all "As Built" data & drawings for entire length of pipeline as per specifications enclosed with the tender document.	1	LS	9,50,000.00	9,50,000.00
43	VIDEO FILM & PHOTOGRAPHY OF CONSTRUCTION ACTIVITIES Preparation of high resolution video films with audio commentary and Industrial photography covering all aspects/activities of pipeline construction annotated as required, conversion of same to video DVD/Blue Ray format, submitting three (3) sets of the same as per details in scope of work document	1	LS	1,00,000.00	1,00,000.00
44	**FABRICATION OF LR BENDS :**				
45	Fabrication of 6D bend / LR (Induction) bends as per the relevant standard & Specification attached with the tender document from free issue linepipes (mother pipe) including but not limited to the following: "Receiving and taking over of free issue linepipes" from GAIL Dump Yard location as mentioned in Scope of Work, carrying out inspection of line pipe at the time of receive taking over in the presence of Company representative, carrying out repair of pipe defects attributable to Contractor after taking over, including supply of consumables & equipments; handling, hauling, transportation and loading/unloading required to transport the mother pipes between place of issue, LR bend fabricator/ manufacturer, intermediate storage as required, and final delivery of fabricated LR Bends to the worksite(s), as per requirement, Manufacturing/ fabricating of LR Bends, as per project requirements and Specifications. LR bends exact angle(s) shall be as per pipeline alignment. Note:- 1. Rate for repairing of defects in linepipes identified and recorded at the time of receiving & taking over i.e. defects attributable to Company shall be quoted separately in the applicable items of the SOR. 2.Loading of Pipe into installation contractor trailer shall be carried out by the GAIL Dumpyard maintenance agency already engaged by the Company.				
46	Bare Pipe ND12", API5L X70 - 7.1 mm	18	Nos	40,000.00	7,20,000.00
47	Bare Pipe ND12", API5L X70 - 8.7 mm	22	Nos	45,000.00	9,90,000.00
48	**SUPPLY AND INSTALLATION OF CASING PIPE & 6 INCH CS CONDUIT:** Supply and installation of casing pipe and 6 inch CS conduit for OFC by jacking / boring or open cut for rail, road or canal crossings wherever required in all types of soils and terrain separately for carrier pipes and fibre optic cable inside HDPE duct, supply of casing pipes and all other Contractor supplied materials viz. casing insulators and casing end seals as per enclosed drawing, materials for casing vents and drains, etc. including transportation, supply of all other materials, equipments, consumables, man-power, welding including visual inspection of all weld joints, installation of casing insulators, end seals, vents and drain-off pipes, backfilling and restoration as original of the facility crossed and performing all works as per drawings, specifications including PTS and GTS and instructions of Engineer-in Charge and provisions of Contract document.				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

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49	Supply and installation of Casing pipe by Boring / Jacking as per item no. 48 (Other than Railway Crossings) Casing Pipe Details: (Pipe 18" , 6.4 mm Thick, API 5L GR.B)	100	M	28,000.00	28,00,000.00
50	Supply and installation of 6 inch CS Conduit by Boring/Jacking as per item no. 48 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	100	M	9,500.00	9,50,000.00
51	Supply and installation of Casing pipe by open cut as per item no. 48 Casing Pipe Details: (Pipe 18" , 6.4 mm Thick, API 5L GR.B)	100	M	21,000.00	21,00,000.00
52	Supply and installation of 6 inch CS Conduit by open cut as per item no. 48 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	100	M	7,000.00	7,00,000.00
53	**HDD CROSSING**				
54	**Generalities**				
55	Topographic / Bathymetry, Geotech Investigation and Hydrological data collection				
56	Site preparation				
57	Design & stress calculations as per requirement				
58	Material hand-over and material handling				
59	Site reinstatement				
60	Final dossier including all notes & calculations as required in the specification				
61	**Installation of 6 inch CS Conduit**				
62	Teletransmission--Separate Drilling for 6 inch CS Conduit for OFC installation				
63	Installation of HDPE duct & OFC cable inside 6 inch CS conduit				
64	Drilling & Pulling of 6 inch CS Conduit shall be done before mainline HDD.				
65	**Pipeline string**				
66	Beveling & welding				

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67	Inspection & testing of welds				
68	Field joint coating				
69	Temporary support (roller)				
70	Control of pipeline string				
71	Hydrotesting & leak test				
72	**Drilling operation**				
73	Earthwork entry / exit points including grading erection of embankment etc..				
74	Supply & clearing out of all material needed for drilling				
75	Drilling of washer pipe, reaming & cleaning of drill opening, supply and preparation of bentonite				
76	Pull back of the pipe string				
77	Disposal of surplus of soil & bentonite				
78	Control of the integrity of the coating				
79	**Work at entry point**				
80	Changes in direction				
81	Beveling & welding				
82	Inspection & testing of welds				
83	Field joint coating & coating of all bare section of pipe				
84	Earthwork				
85	Lowering-in				
86	backfilling as required				
87	**Work at exit point**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
88	Changes in direction				
89	Beveling & welding				
90	Inspection & testing of welds				
91	Field joint coating & coating of all bare section of pipe				
92	Earthwork				
93	Lowering-in				
94	backfilling as required				
95	Complete work for the water/ Road/ Rail crossings, including taking over and handling of linepipes from Contractor Storage Yard to worksite, Arrangement of all additional land required for Contractor's storage, fabrication, access for construction; construction design calculation and engineering of the crossing, mobilization and demobilization at site(s), supply of all materials as per "Scope of Supply" and all consumables, equipment, manpower and other resources, and acquiring the required land for site preparations, and execution of, but not limited to, the following works in accordance with specifications, drawings, and as per provisions of the Contract document and instructions of the Company/ Engineer-in- Charge: Carry out all surveys required for collecting data relevant to design and construction of the crossing, preparation of all necessary construction drawings for Company's approval as per the provisions of the Contractor document, Preparation of detailed construction method statement and calculations including Scour Depth calculations for river/ canal crossings, Strings preparation including welding, 100% Radiography of welds, NDT of welds and re-beveled areas, radiography, weld repair and re-test, pre-testing of completed string, corrosion coating of field joints with Dirax or equivalent, inspection of corrosion coating and repair of defects, Preconstruction surveys and collection of all necessary data, Installation of pipeline and CS conduit (6 Inch CS Conduit shall be installed through Seperate Drilling) , horizontal directional drilling to the correct profile as per approved drawings and specification, Post-installation hydrotest including leaks and repair of defects and retesting, etc. for defects attributed to Contractor's faulty work, Supply, fabrication and construction of protective fencing as required, Hydrotesting, Supply, fabrication and erection of pipeline markers, Restoration and clean-up etc., Preparation of as-built drawings and other records etc., All other works not specifically listed herein, but required as per specifications, drawings, provision of contract document, calculations, and construction method statements, leading to successful completion of works.				
96	Linepipe details:- (Pipe 12" dia, Wall Thickness: 7.1 mm, Pipe Grade: API 5L GR.X-70 PSL 2, External Coating: 3LPE) CS Conduit details: (Pipe 6" dia, 6.4mm Thick, API 5L GR.B) Note: 1. CS Conduit shall be supplied by the Contractor. Radiography & Hydrostatic testing is not required to be done for CS Conduit. (6 Inch CS Conduit shall be installed through Seperate Drilling) Contractor shall quote accordingly. 2. The rate shall be applicable for the drilled length of the HDDs.	1300	M	22,000	2,86,00,000.00
97	All above works shall be executed in accordance with scope of work, GTS,PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. This line item is applicable for HDD crossing mentioned in the Crossing List with prior approval of Engineer - In-Charge during Construction.				
98	**SUPPLY & INSTALLATION OF OPTICAL FIBBE CABLE AND HDPE DUCT**				
99	Suppy of 24 Fibre Composite armoured Optical Fibre Cable drum (6 fibre G-655 & 18 fibre G-652) of 4 km +/-5% Cable drum length with fiber terminal closure, inspection chamber, electronic route marker all along pipeline route, Two number electronic locater as per PTS-Optical Fibre cable and Scope of Work C&I along with all required accessories and fitments not mentioned seperately.	26200	M	75	19,65,000.00

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100	Inspection/Jointing Chamber (fabricated or readymade)	8	Nos	4,000	32,000.00
101	Blowing Pit (fabricated or readymade)	25	Nos	4,000	1,00,000.00
102	Supply of jointing closure 24 Fiber, 2 way including all accessories (3M, Siemens, Reychem make only)	10	Nos	5,000	50,000.00
103	Supply of End to End OFC termination of wall mounted FTC with pig tails other accessories for termination of OFC - 24 Fibre in the Telecom Room at Bokaro & SV1	2	Nos	75,000	1,50,000.00
104	Electronic marker	8	Nos	3,500.00	28,000.00
105	Electronic Locator	1	Nos	2,50,000.00	2,50,000.00
106	Supply of 50mm OD permanently lubricated HDPE telecom duct along with all the required accessories as per PTS-Optical Fibre cable and Scope of Work C&I	26700	M	220.00	58,74,000.00
107	Laying of HDPE Duct : Laying of 50mm HDPE Ducts in same pipeline trench direct buried, or inside 6 inch CS conduit at various crossings as per Specification in all type of soil & terrain, excavated as required, padding, backfilling, etc. including supply of accessories required for HDPE Duct installation, including plastic couplers, end plugs, cable sealing plugs, end caps, etc. suitable & sufficient for above supplied ducts, cleaning and sealing of ducts at the end laid drum lengths, preparation and supply of cable blowing pit at each Km jointing of HDPE duct, testing of HDPE Duct and accessories after laying preparation of report and final drawing and documents as per specification, joint location marking, erection accessories, as-built, etc.	22500	M	225.00	50,62,500.00
108	Blowing of Optical Fibre Cable inside HDPE Duct : All activities pertaining to Blowing of Optical Fibre Cable in same pipeline trench directly (after testing drum at site), inside HDPE duct along the pipeline and at crossing, sealing using all materials required as per specification	22500	M	40.00	9,00,000.00
109	Installation of FTC & Wire mesh, termination of OFC on FTC / DDF inside telecom room, splicing with steet fibre, fibre test, OTDR test, power testing of laid OFC, identification of fault, rectification, earthing, final testing and commissioning, preparation of reports, etc. work complete in all respect with all necessary accessories for all location till final Handing Over and Taking Over by Owner of laid OFC.	1	LS	5,00,000.00	5,00,000.00
110	**TRANSPORTATION OF COATED AND BARE LINEPIPES FROM GAIL DUMPYARDS (ANY LOCATIONIN INDIA) TO CONTRACTOR STORAGE YARD:**				
111	"Receiving and taking over" of "free issue" Linepipes from GAIL Dump Yard location (any location in India); Carrying out inspection of Linepipes at the time of receiving and taking-over, recording of pipe & coating defects at the time of taking over in the presence of Company's representative, carrying out repair of coating defects & pipe defects attributable to Company; including supply of materials, consumables & equipments; handling, hauling and transportation from designated place of issue to Contractor Storage Yard; unloading and stacking of the linepipes at Contractor Storage Yard; including arranging all equipments, trailers, trucks & manpower; all works as per Scope of Work, drawings, PTS, GTS and other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, Provision of Contract & instructions of Engineer InCharge.				

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S. NO.	**WORK DESCRIPTION AND SUPPLY**	**UNIT**	**QTY**	**PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR**	
112	Linepipe Details:- Coated and Bare Line Pipe 12" diameter API 5L Gr. X-70 PSL-2 Wall Thickness - 6,4mm / 7.1mm / 8.7 mm External Coating - 3LPE, Internal Coating - Liquid Epoxy 1) Loading of Pipes into Installation contractor's trailer shall be carried out by the contractor. 2) Development & Maintenance of Contractor Storage Yard adequate to store the linepipes including arrangement of all Lifting & Handling equipment at Contractor's Storage Yard shall be done by the Contractor. Rate for the same shall be quoted in applicable items. 3) Rate for repairing of coating defects in linepipes identified and recorded at the time of receiving & taking over i.e. coating-defects attributable to Company shall be included in this item. 4) Rate for repairing of pipe-defects identified and recorded at the time of receiving & taking over i.e. pipe-defects attributable to Company shall be quoted separately in the applicable items of the SOR. 5) Transportation of line pipe from Contractor's Storage Yard to work site is included in SOR item 1 above, No separate payment will be applicable for the same.	220000	Ton-Km	6.00	13,20,000.00
113	**TRANSPORTATION OF FREE ISSUE PIPING ITEMS (OTHER THAN LINE PIPE) FROM GAIL STORAGE YARDS (ANY LOCATION IN INDIA) TO CONTRACTORS YARD / WORKSITE(S) :** "Receiving and taking-over", handling, lifting, loading, transportation and unloading of Company supplied "free-issue materials" (Other than line pipe) viz. Metering Filtering and PRS Skid, Scrapper Launcher/ Receiver & accessories, Valves with or without Actuators, Insulation Joints, Flow Tee, Pig Signallers, fittings, flanges etc. from GAIL Storage yards location (any location in India) to Contractor's Storage Yard / work-site(s). Note:- 1) Location of GAIL Storage Yard shall be anywhere in India. Contractor shall quote accordingly. 2) Transportation of FIM from Contractor's Storage Yard to work site, is included in SOR item 121 below, No separate payment will be applicable for the same.	15000	Ton-Km	6.00	90,000.00
114	**DEVELOPMENT OF CONTRACTOR STORAGE YARD:**				
115	Development of the Contractor Storage Yard including fencing, illumination etc., including deployment of all lifting and handling equipments, manpower required to stack, unload and load all Free Issue Material (FIM) including Line Pipes and all bought out items, as required; storage of all Free Issue Material and bought out items for the required duration as per project requirement, all works as per Scope of Work, drawings, other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, PTS, GTS and Provision of Contract & instructions of Engineer In-Charge. The storage yard shall be used for storage of all Free Issue Line pipes, all other Free Issure Material (FIM) and all bought out items required for the project. Notes:- 1) Development of contractor storage yard adequate to store all the material required for Project, including all Free Issue Material (FIM) and bought out items. (Rate for the same shall be captured in this item) 2) Maintenance of contractor storage yard for the entire project period is included in the scope of contractor. No separate payment shall be applicable for the same.	1	LS	8,00,000.00	8,00,000.00
116	Hard Rock breaking by controlled blasting / chiseling method (rate will be applicable in case when prior approval for rock breaking is obtained by the contractor from GAIL / PMC)	100	M3	6,000.00	6,00,000.00
117	Clean Agent Fire Supression System as per Scope of Work	1	LS	8,00,000.00	8,00,000.00
118	Restoration of underground utilities (pipes & cables) during excavation at ONGC, GCS Bokaro and Receiving Station (which is inside SV-01 Premises)	10	Nos	5,000.00	50,000.00
119	**Sub-Total Section A**				**12,88,66,600.00**
	SECTION-B [MECHANICAL (PIPING & TERMINAL WORKS)]				

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S. NO.	**WORK DESCRIPTION AND SUPPLY**	**UNIT**	**QTY**	**PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR**	
121	**PIPING WORKS AT DESPATCH AND RECEIVING STATIONS AND HOOK-UP WITH ONGC GCS, BOKARO** All works for installation of all piping at all elevations for Despatch and Receiving Stations as indicated in Drawings, Scope document, including supply of all consumables, Gaskets, nuts, bolts Studs, manpower, materials and equipment (except Company supplied free-issue materials), aligning, grouting, tie-in with pipeline and carrying out all mechanical works of underground and above ground piping including fabrication, welding, installation of all pipes, valves (manual & actuated), flanges, fittings, flow tees, pig signalers, insulating joints, corrosion monitoring probes /corrosion coupons, installation of instruments (pressure/temperature gauges, vents, drains-off, safety relief valves, electro hydraulic valves etc.) as indicated in P& IDs and GADs. 100% Radiography of weld joints of piping above 1.5 inch, Magnetic particle & Die penetration test for piping 1.5 inch & below, all NDT of welds, weld repairs/retesting, hydrostatic testing, cleaning/flushing, functional testing, de-pressurizing , Drying and dewatering, cutting and re-beveling (as required), hookup of all pipeline/utilities at the battery limit with the pipeline/utilities installed by others, obtaining all statutory clearances, approvals and permissions for the work (wherever required), excavation and filling in all types of soils including soft/hard rock for installation of piping/ pipe supports; corrosion coating and external painting (as required), finishing, clean-up and restoration of site, preparation of as- built drawings, documents and project records and performing all works as per drawings, specifications, other provisions of Contract document and instructions of Engineer-in-Charge. Civil/ structural works for piping supports will be paid separately as per unit rate provided elsewhere in the contract. Cost of Transportation of all materials (Including FIM mentioned above) for station works, from Contractor's own stock-yard to Work site, to be included in this SOR item. No separate payment will be applicable for the same.				
122	Fabrication and Erection of piping as per item no.110, (For Pipe Size 2 Inch and above, 100% Radiography) Note: 1. Rate for Handling, Fabrication and erection of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item. Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor.Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes 2" & above, shall also be part of this item. Contractor shall quote accordingly.	1900	Inch Dia Meter	350.00	6,65,000.00
123	Fabrication & Erection of Piping as per item no.110 (For Pipe Size Below 2 inch, Magnetic particle & Dye Penetration Test as per the requirement of specification)	50	Inch Dia Meter	350.00	17,500.00
124	Painting of Piping (Pipe, Fittings, Flanges, Valves, Equipments, etc.) as per item no. 110	1950	Inch Meter	50.00	97,500.00
125	Hydrostatic testing, cleaning / flushing, functional testing, de-pressurizing, dewatering & drying of Piping as per item no. 110 (for all size upto 12").	1950	Inch Meter	50.00	97,500.00
126	**INSTALLATION OF COMPANY SUPPLIED FIM (FML SKID AND PIG LAUNCHER/RECEIVER SYSTEM) AT DESPATCH TERMINAL AND RECEIVING TERMINAL**				
127	Installation of Company supplied Filtering, Metering and PRS Skid and Scrapper Launcher/ Receiver with accessories, at stations including all handling and installation works; as per drawings, specifications enclosed with the Contract and directions of Engineer-in-Charge. Cost of Transportation of above Free issue items, from Contractor's own stock-yard to Work site for station works, to be included in this SOR item. No separate payment will be applicable for the same.	1	LS	2,50,000.00	2,50,000.00
128	**CONTRACTOR SUPPLIED ITEMS:(Supply of Items as per attached PTS,GTS,Data Sheet,QAP and PMS)**				
129	**Station pipe -Seamless**				
130	1" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, PE, SEAMLESS	6	Meter	1,800.00	10,800.00
131	2" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	90	Meter	3,200.00	2,88,000.00
132	4" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	120	Meter	4,500.00	5,40,000.00
133	10" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	12	Meter	20,000.00	,000.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**			**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL**	**Rev.00** **Date-11.02.2022**
				Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**

M/s. ENPROCON ENTERPRISE LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
134	12" pipe, 7.1mm thk, ANSI B 36.10, API 5L X 70,HFERW	84	Meter	25,000.00	21,00,000.00
135	**Supply of fittings & Flanges**				
136	1 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 350 LF2,CL1, BW, ANSI B16.25	4	Nos	1,800.00	7,200.00
137	1" WNRF FLANGES, 6C1, SCH. 160 / 600#, WNRF, B-16.5, ASTM A350 LF2, CL1, BW-ANSI B16.25 RF	4	Nos	1,800.00	7,200.00
138	1", BLIND FLANGES, 6C1, 600#, RF, B-16.5, ASTM A350 LF2, CL1, RF	4	Nos	1,800.00	7,200.00
139	3/4" EQUAL TEES, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25,	2	Nos	1,500.00	3,000.00
140	3/4", CUP THREADED 6C1, 6000#, ANSI B16-11, ASTM A 350 LF2, CL1 , BW - ANSI B16.25, ANSI B1.20.1,	3	Nos	1,500.00	4,500.00
141	**WELDOLETS (MAINLINE x BRANCH SIZE)**				
142	4" x 1", WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	4	Nos	4,000.00	16,000.00
143	12" x 2" WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 7.1 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 694 F70	5	Nos	12,000.00	60,000.00
144	12" x 2", WELDOLETS (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 7.1 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	35	Nos	12,000.00	4,20,000.00
145	**GASKETS**				
146	GASKETS, 6C1, 600#, RF, ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 1"	12	Nos	500.00	6,000.00
147	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 2"	210	Nos	800.00	1,68,000.00
148	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 4"	30	Nos	1,000.00	30,000.00
149	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 10"	2	Nos	2,000.00	4,000.00
150	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 12"	44	Nos	2,500.00	1,10,000.00
151	**NIPPLES**				
152	NIPPLES, 6C1, Sch 160 /600#, ANSI B 36.10, ASTM A333 GR.6, BOTH ENDS PLAIN, SEAMLESS-LG=100mm, 3/4"	10	Nos	1,500.00	15,000.00
153	NIPPLES, 6C1, Sch 160 / 600#, ANSI B 36.11, ASTM A333 GR.7, ONE END THRD -MNPT SEAMLESS- LG=100mm, 3/4"	8	Nos	1,000.00	8,000.00
154	**Supply of following Valves as Per attached PTS,GTS,Data Sheet,QAP,PMS & MTO**				
155	1",BALL VALVE - FULL BORE (RF) (ABOVE GROUND),6C1	6	Nos	11,000.00	66,000.00
156	3/4", CHECK VALVE (RF) (AG), 6C1	2	Nos	5,000.00	10,000.00
157	**3/4",NEEDLE VALVE, 6C1**	5	Nos	3,000.00	15,000.00
158	Note (Applicable for all items of SOR item No 128 to 157): 1. Before procurement of any of the above materials Contractor will take prior approval from GAIL / PMC. 2. Payment will be made for actual quantity used.				
159	**Sub-Total Section B**				**52,63,400.00**
160	**SECTION-C [CIVIL / STRUCTURAL & ARCHITECTURAL]**				

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161	**CIVIL , STRUCTURAL & ARCHITECTURAL**				
162	**Earthwork excavation in soil**				
163	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	2900	cum	350.00	10,15,000.00
164	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth beyond 1.5m and upto and inclusive of 3.0m including Removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	70	cum	450.00	31,500.00
165	**Earthwork excavation in soft rock**				
166	Earth work in EXCAVATION below ground level for all kinds of works in SOFT ROCK and HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as irected including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	255	cum	450.00	1,14,750.00
167	**Backfilling after execution of work**				
168	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps within a LEAD OF 100M,including re-excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/ mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	1150	cum	350.00	4,02,500.00
169	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps beyond a LEAD OF 100M AND UPTO & INCLUSIVE OF 500M including re- excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	490	cum	350.00	1,71,500.00
170	**Transporting & Disposing the SURPLUS EARTH AND DEBRIS**				
171	Transporting and disposing the SURPLUS EARTH AND DEBRIS including shrubs and vegetations from construction areas to areas ANYWHERE OUTSIDE THE PLANT BOUNDARY, including re-excavating the deposited soil excavated earlier, loading, transportation, unloading, laying at all depths and heights, stacking,levelling and dressing both the area (viz. from where the earth is transported and where it is deposited) to required levels and slopes complete with all lifts as directed. For carting on the basis of truck measurements (volume of truck reduced by 30% for voids). DISPOSAL AREAS OUTSIDE PLANT BOUNDARY TO BE ARRANGED BY THE CONTRACTOR. Royalty as applicable for disposal outside plant limits to be borne by the Contractor	1310	cum	120.00	1,57,200.00
172	**EARTH WORK FILLING BY EXCAVATION**				
173	EARTHWORK IN FILLING by excavating the earth from BORROW AREAS arranged by CONTRACTOR for all leads, transporting the earth from borrow area including cleaning & stripping the earth at borrow areas, breaking clods, loading, unloading and laying at all depths and heights in layers of thickness not exceeding 15 cms., watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% of the maximum laboratory dry density, ressing, trimming, levelling the top surface etc. in foundations, plinths, trenches etc. all complete.	9555	cum	150.00	14,33,250.00
174	**PLAIN & REINFORCED CEMENT CONCRETE: (REFER SPECIFICATION NO. (Z/02/0004)**				
	PLAIN CEMENT CONCRETE - PCC				

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				Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**

M/s. ENPROCON ENTERPRISE LIMITED

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176	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:4:8 (1 cement : 4 coarse sand (Zone-III) : 8 graded stone aggregate 40 mm nominal size)	160	cum	5,500.00	8,80,000.00
177	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:3:6 (1 cement : 3 coarse sand (Zone-III) : 6 graded stone aggregate 40 mm nominal size)	22	cum	5,500.00	1,21,000.00
178	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:2:4 (1 cement : 2 coarse sand (Zone-III) : 4 graded stone aggregate 20 mm nominal size)	150	cum	6,220.00	9,33,000.00
179	Providing and laying PLAIN CEMENT CONCRETE for all depths below and upto plinth level in foundations, drains, fillings, non-suspended floors, pavements & ramps or any other works etc. including shuttering, tamping, ramming, vibrating, curing, etc. all as specified in any shape, position, thickness and finishing the top surface rough or smooth as specified and directed all complete for concrete grade M20 with 20mm and down size graded crushed stone aggregates/Gravels. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR	26	cum	7,500.00	1,95,000.00
180	**RCC WORKS**				
181	**SUBSTRUCTURE**				
182	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUBSTRUCTURE INCLUDING CENTERING & SHUTTERING) e.g. foundations, raft, beams, pile caps, Retaining walls, counterforts, buttresses, pedestals, pipe sleepers, columns, suspended floors, staircases, landings, steps, brackets etc., including equipment/ machine foundations & pedestals viz. compressors, generators, etc. (including single pour concreting as specified on the drawing), applying cement wash on concrete surface (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering, etc., wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT)for all depths below and upto plinth level in any shape, position and thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	1220	cum	8,500.00	1,03,70,000.00
183	**SUPER STRUCTURE- EXCLUDING CONTROL ROOM BUILDING, GUARD ROOM & BOUNDARY WALL**				
184	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUPER STRUCTURE INCLUDING CENTERING & SHUTTERING in suspended floors, slabs, beams, columns, walls including counterforts, staircases, landings, steps, facias, fins, mouldings, gutters, shelves, window sills, canopies, lintels, girders, ducts, brackets, chajjas with drip moulds, pedestals, posts, struts, equipment/ machine foundations, ramps etc. (including single pour concreting as specified on the drawing), providing cement wash (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT) FOR ALL HEIGHTS UPTO & INCLUSIVE OF 20 m ABOVE PLINTH LEVEL in any shape, position, thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	70	cum	8,500.00	5,95,000.00
185	**CONTROL ROOM BUILDING (SUPERSTRUCTURE)**				
186	Construction of Control Room Building as per drawings and specification. Building work for all Superstructure works INCLUDING CENTERING & SHUTTERING , Reinforcement , masonry work, partition wall, Plastering & pointing, flooring, Floor finishes, Door & windows, rolling shutter, false ceiling, all finishes, painting, roof treatment complete in all respect etc.)	215	m2	520.00	1,11,800.00
187	**GUARD ROOM (SUPERSTRUCTURE)**				
188	Guard Room as per drawings and specification. Building work for all superstructure works including (Reinforcement, masonry work Plastering & pointing, flooring, Floor finishes, Door & windows, painting, roof treatment, all finishes, water supply and sanitary work complete in all respect etc.)	17	m2	8,500.00	1,44,500.00
189	**HYD Bars / MS Bars**				

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190	Supplying and placing in position HIGH YIELD STRENGTH DEFORMED STEEL BARS REINFORCEMENT of Grade Fe500D TMT conforming to IS:1786, for RCC work (excluding control room building & Guard room & boundary wall superstructure) including transporting the Steel, straightening, cleaning, decoiling, cutting, bending to required shapes and lengths as per details, binding with 18 SWG black soft annealed binding wire at every intersection, supplying and placing with proper cover blocks, supports, chairs, overlaps, welding, spacers, fanhooks etc. for all heights and depths etc. all complete as directed. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE	136	MT	85,000.00	1,15,60,000.00
191	**BOUNDARY WALL (SUPERSTRUCTURE)**				
192	compound wall (Superstructure)with RCC columns, beam, coping and Brick masonry (3.0m high) with an additional 0.6m high barbed wire & concertina coil (dia. 600mm) overhead on 'Y' shape structural steel frame. (SUPERSTRUCTURE) works included (masonry work, Plastering ,painting, CENTERING & SHUTTERING complete in all respect etc.)with gate and supplying, fixing and tensioning in position 2.5mm(12 gauge), 2 ply, 4 points, GI Barbed wire designation A-1 conforming to IS:278 in horizontal rows and cross diagonals for compound wall "Y" shaped overhang etc. with necessary GI staples, clips and pins, GI straining bolts and binding wire with all labour and materials etc. complete as per drawings, specifications and directions of Engineer-in-Charge.(The barbed wire shall be measured in linear length of the barbed wire actually fixed) Supplying, fabricating and fixing in position structural steel line posts, straining posts, struts for 'Y' shaped overhang etc. conforming to IS:2062 over brick/stone Masonry/ RCC compound walls/ columns, cutting to required size as per drawings and specifications, welding where necessary, embedding in position, holding to correct level and line, any auxiliary structure for dummy supports, drilling holes and painting as per painting specification attached with tender, cutting brick/rubble/concrete surfaces if necessary, grouting with M20 grade concrete including cost of grout with all labour and material etc. complete as per drawings, specifications and directions of Engineer-in-Charge.(All materials including cement shall be supplied by contractor).	285	RM	2,000.00	5,70,000.00
193	**STRUCTURAL STEEL WORKS (REFER TE SPECIFICATION)**				
194	Supplying, fabricating and erecting of structural steel and applying COATING (Post-erection/ Field) of approved quality and shade as per TE Specification or Job Specifications, wherever applicable) over the coat of shop primer already applied, including storage, surface preparation, degreasing, cleaning, drying, providing necessary arrangement for access, testing etc. including touching up of shop for steel structures (Including Wicket Gate, Main Gate and emergency gate, excluding ladders, spiral stairways & hand rails) at all location & levels, all complete as specified, for UNIT (INLAND) areas considering environment classification as INDUSTRIAL. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE. (Unit rate based on Structural steel weight)	19.5	MT	95,000.00	18,52,500.00
195	MISCELLANEOUS STEEL WORKS (REFER TE - SPECIFICATIONS)				
196	**MS Chequered Plates**				
197	Supplying, fabricating and erecting in position at all levels and locations bolted, screwed and/or welded M.S. CHEQUERED PLATES of any thickness in walkways, platforms, stairtreads or any other place as directed, etc. cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing, welding, preparation and submission of fabrication drawings and preparing the surfaces for painting and applying shop primer as per TE Specification after fabrication and return of unused/ scrap/ unserviceable chequered plates to Owner's store and material reconciliation etc. all complete as specified and directed	1.5	MT	98,000.00	1,47,000.00
198	**Anchor Bolts**				
199	Supplying, fabricating, fixing and keeping in position at all levels and locations THREADED ANCHOR BOLTS of all diameters and nomenclature including nuts, washers, anchor plates, pipe sleeves etc. in foundations, columns, pedestals, slabs, beams, walls etc. or any other place as directed including handling & transporting, straightening if required, turning from relevant size M.S. rounds to required diameter, threading, welding, providing necessary templates and auxiliary dummy structures, if any, necessary tying and welding with reinforcement, adjustment of shuttering & reinforcement/any other fixture, greasing exposed metal surfaces, covering bolts and packing the sleeves with jute cloth etc. all complete as specified and directed.(SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1	MT	1,35,000.00	1,35,000.00
200	**MS Metal Inserts**				
201	Supplying, transporting, storing, fabricating and fixing in position M.S. METAL INSERT (with lugs) of any shape made out of flats, plates, rolled sections, pipes etc. providing necessary templates, staging, cutting,straightening, if required, bolting, welding as required and embedding in position on both Plain and Reinforced Cement concrete members inclusive of adjusting shuttering & reinforcement/ any other fixture, welding where necessary, tying and holding to correct level, line and position, any auxiliary dummy structures to support the heavy inserts, painting exposed surfaces with a coat of primer as per TE Specification all complete for all depths and heights as specified and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	0.55	MT	98,000.00	53,900.00
202	**MS Grating**				

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203	Supplying, fabricating and erecting in position at all levels and locations ELECTROFORGED GALVANISED GRATING (purchased from approved manufacturer by the Contractor) conforming to TE STANDARD (in walkways, platforms, stair treads etc.) including cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing with manufacturer's supplied galvanised clamps, preparation and submission of fabrication drawings, all complete as specified and directed (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.7	MT	1,25,000.00	2,12,500.00
204	**Hand Railing 1000mm**				
205	Supplying, fabricating and fixing in position at all locations 1000mm high INCLINED HAND RAILING (for staircases) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade M.S. Tubes conforming to IS:1239 including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE SPEC. preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	RM	3,000.00	30,000.00
206	Supplying, fabricating and fixing in position at all locations 1000mm high HORIZONTAL HAND RAILING (for platforms, walkways, etc. or any other location as directed) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade MS Tubes conforming to IS:1239 and 100x5 MS Toe Plate confirming to IS:2062 (Grade A/B), including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE standard drawing & specification, preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	3,000.00	30,000.00
207	**CHAIN LINK FENCING**				
208	Supplying, fabricating and fixing G.I. chain link fencing with 3.5mm dia. wire, 50x50mm diamond mesh chain link fence fabric conforming to IS:2721 fixed to steel/RCC posts/struts above ground level, including supply of chain link fencing fabric in 1.9 metre wide rolls, stretcher bars, staples, etc. required for fixing the fencing, fixing of chain link fencing between straining posts, fixing of bottom of fencing in cement concrete 1:2:4 blocks and painting with synthetic enamel etc. , including supply and fixing line wires, complete as per drawings, specifications and directions of Engineer -in-Charge (All materials shall be supplied by Contractor). (The measurement of chain link fencing shall be on linear basis for 1.9 m wide fencing fabric)	10	M	6,500.00	65,000.00
209	**ROADS & FLEXIBLE PAVEMENT (UPTO WBM LAYER)**				
210	Preparation and consolidation of sub-grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth outside the property boundary in the un-disputed areas as directed by Engineer-In-Charge.	2400	M2	4,500.00	1,08,00,000.00
211	Supplying and laying of stone aggregate of 63mm down to 45mm size for WBM layer Base Course, tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 75mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding material of plasticity index upto 6%, including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts etc. complete as per drawings, specifications and directions of Engineer-in-Charge	7200	M2	4,500.00	3,24,00,000.00
212	**CONCRETE PAVEMENTS**				
213	Construction of dry lean cement concrete (DLC) sub base over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in- charge.	240	cum	12,000.00	28,80,000.00
214	Providing and laying Reinforced Cement Concrete with 20mm and down size graded crushed stone aggregates in flooring, pavements etc. including leaving pockets, if necessary, making recess/drains, laying in alternate panels, etc. for all depths including shuttering, tamping, curing, providing dowel bars with sleeves/tie bars etc where ever required at site. as specified in any shape, thickness, position and finishing the top surface smooth etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For RCC of M-30 grade concrete (all materials including cement but excluding cost of providing & fixing reinforcement and joint sealing shall be supplied by the contractor).	600	cum	12,000.00	72,00,000.00
215	Providing 20mm wide Expansion Joints in pavement slabs as per general technical specification including cleaning the joints of all loose material, filling with 20mm thick impregnated fibre boards for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved Joint Sealing Compound as per IS:1834 Type-B etc. all complete as per drawings, specifications and directions of Engineer-in-Charge	1100	M	500.00	5,50,000.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. ENPROCON ENTERPRISE LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
216	Sealing joint around pedestal and column etc. 20mm wide x 150 mm deep including filling with 20mm thick impregnated fire board for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved joint sealing compound as per IS:1834 Type-B.	300	M	500.00	1,50,000.00
217	**RCC PIPE CULVERTS & ELECTRICAL ROAD CROSSINGS ETC. (as per drawing & TE specification)**				
218	Supplying and laying in position RCC pipes with collars conforming to IS:458 for pipe culverts, cable crossings etc. including cutting the pipe if necessary, lowering, laying in position to proper levels, slopes etc. caulking the joints with spun yarn soaked in neat cement slurry and finishing with cement mortar 1:2 (1 cement : 2 sand) curing etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For following Class and Internal PIPE DIA (MM). (Dia (internal) - 500 mm, Pipe Class - NP3)	20	M	2,000.00	40,000.00
219	**U/G AND A/G G.I. PIPELINE SYSTEM - WATER SERVICES tender specification**				
220	Supplying and laying mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ ASTM A105 (Galvanized) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, earthwork in excavation for trenches, valve pits, etc. in all types of soil excluding soft and hard rock including laying of pipes in trenches, joining the pipes and fittings with threaded connections, hydrostatic testing of the piping, backfilling the trenches with selected/approved earth fill material, cutting of roads wherever required, making good the road surface after laying, disposal of surplus earth within a lead of 500 m, etc. including supply of necessary fittings etc. complete as per specifications, drawings and directions of Engineer-in-Charge. For following Nom.Size in mm. (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	500.00	5,000.00
221	Supplying and laying above ground mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ASTM A 105 (GALVANISED) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, including laying of pipes on sleeper, walls, including erecting piping on columns, etc. for pump station, overhead tanks, etc. including joining the pipes and fittings with threaded connections, hydrostatic testing of the piping including supply of necessary fittings etc & pipe supports. complete as per specifications, drawings and instructions of Cement Supplied by contractor (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	600.00	6,000.00
222	**MISC. CIVIL AND STRUCTURAL WORKS FOR U/G PIPING AND OTHER CIVIL WORKS**				
223	Providing and laying brick masonry with locally available bricks of specified class (Brick of class lower than specified shall not be accepted) in cement mortar 1:4 (1 cement : 4 Coarse sand) in one or more brick thickness and in any shape in foundation and plinth for valve pits, drains, circular/square manholes, wing walls, etc. including providing recesses, openings, etc. including curing, finishing the joints flush below ground level and raking out joints in plinth with all labour and material, etc. complete as per drawings, specifications and direction of Engineering-Charge. For following Brick Class. All materials including cement supplied by the Contractor and. (Brick Class - 5)	418	cum	980.00	4,09,640.00
224	Providing 13mm thick average cement plaster in cement mortar 1:3 (1 cement: 3 sand) on brick walls/stone masonry/pitching or on concrete surfaces for manholes, valves pits, culverts, wing walls, etc. including cleaning and preparation of the surface, scaffolding, curing etc. for all depths and heights complete as per drawings specifications and direction of Engineer-in-Charge. All materials including cement supplied by the Contractor.	775	M2	310.00	2,40,250.00
225	**UNDERGROUND SEWER SYSTEM - RCC PIPES**				
226	Supplying and laying underground R.C.C. pipes sewers with socket and spigot ends conforming to IS:458 of approved make, to proper grade and alignment, including earthwork in excavation in all types of soil except soft and hard rock for pipe trenches, etc. including dewatering, shoring and shuttering if necessary, dressing of sides, leveling, grading and ramming of bottoms, cutting the R.C.C. pipes to required lengths, lowering the pipes, jointing, including connecting the pipes to manholes and grouting the pipe body with manhole wall using cement mortar 1:2 (1 cement : 2 sand), testing, draining of water and cleaning of pipe after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness , watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, including cutting of roads wherever required and making good the same, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit etc. complete for all depths as per drawings, specifications and instructions of Engineer-in-Charge.(All material shall be supplied by contractor) For following Pipe size (mm) and Class(The following pipe sizes are all internal diameter of the pipes)				

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
227	(Dia (Internal) - 100 mm, Piping Material Class - NP2)	15	M	980.00	14,700.00
228	(Dia (Internal) - 150 mm, Piping Material Class - NP1)	15	M	1,200.00	18,000.00
229	(Dia (Internal) - 450 mm, Piping Material Class - NP2)	70	M	1,450.00	1,01,500.00
230	**UNDERGROUND SEWER SYSTEM-HDPE PIPES**				
231	UNDERGROUND SEWER SYSTEM-HDPE PIPES :- Supplying and laying HDPE pipes conforming to IS:4984 of approved make to proper grade and alignment, including earthwork in excavation for trenches etc. in all types of soil except soft and hard rock including dewatering till completion of subsequent works, shoring and strutting, if necessary, dressing the sides, leveling, grading and ramming the bottom, jointing the pipes using hot plates as per manufacturer's recommendation, lowering, providing and laying 1:5:10 (1 cement : 5 sand : 10 aggregate) plain cement concrete of minimum 100mm thickness on bottom and side of pipe as directed, connecting the pipes to manholes and grouting the pipes to manhole/valve chamber walls, including supplying and fixing the specials and fittings, such as bends, reducers, tees, elbows, caps etc. conforming to IS:8008 or fabricated from pipes as per specification, supplying and fixing of flanges, fixing of online valves, including fixing of bolts, nuts and gaskets etc. as per specifications, testing, draining of water and cleaning of pipes after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness, watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit, cutting of road wherever required, making good the same etc. complete for all depths as per drawings, specification and instruction of Engineer-in- Charge. For the following nominal diameter (mm) Pressure Rating(Kg/Cm2). (Dia (Internal) - 80 mm, Pressure Rating - 2.5 Kg/sqcm)	50	RM	300.00	15,000.00
232	**PLUMBING AND BUILDING DRAINAGE**				
233	Supplying and fixing approved quality Cast Iron soil/waste pipe conforming to IS:1729 below ground with necessary specials, bends such as Y-junction, T- junction (both single and double) including plugs, shoes, cowls, jointing with lead caulked joints and testing, cutting in floors, earth work in excavation, encasing the pipe in 50mm THK, PCC M20, backfilling and removal of surplus earth upto a lead of 50M etc. complete as per drawings, specifications and directions of Engineer-in-Complete				
234	100mm dia (All materials including cement supplied by contractor)	10	RM	450.00	4,500.00
235	80mm dia (All materials including cement supplied by contractor)	10	RM	450.00	4,500.00
236	Supplying and fixing gun metal globe valve conforming to IS:778, complete as per specifications and directions of Engineer-in-Charge.				
237	Dia - 50 mm	2	Nos	700.00	1,400.00
238	Constructing of brick masonry valve chamber in 1:4 Cement mortar(1 cement: 4 sand) with CI frame & cover fixed on M-20 grade cement concrete , necessary excavation, M-20 grade foundation concrete, 13mm thick 1:3 cement plaster on inside & all exposed surfaces, backfilling, removal of surplus earth for all leads within the complex limit etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge. For following Valve size and Brick Class (All materials including Cement supplied by contractor)				
239	Dia - 50 mm, Brick Class - 5)	2	EACH	2,25,000.00	4,50,000.00
240	Providing and fixing approved stone ware 100mmx100mm dia. gully trap as per tender specification, including grating with CI frame and cover 300mmx300mm including brick masonry (brick class shall be as mentioned below) chamber in 1:4 cement mortar(1 cement: 4 sand) on M-20 grade cement concrete foundation, plastered inside and outside surfaces with 1:3 cement mortar (1 cement: 3 sand) with 13mm average thickness including providing and fixing light duty CI frame and cover, painting CI frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat, earth work in excavation, backfilling, removal of surplus earth, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry etc. all complete as per drawings, specifications and directions of Engineer-in-Charge				

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	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. ENPROCON ENTERPRISE LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
241	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	65,000.00	1,30,000.00
242	Construction as per(Design basis & general technical specification) of brick masonry (brick class shall be as mentioned below) inspection chambers/manholes of 750mmx750mm internal size 1000mm deep(Max.) in cement mortar 1:4 (1 cement: 4 sand) with CI frame and cover 500mm clear dia, (circular Medium duty of grade MD-10) conforming to IS:1726 fixed on RCC slab of M-30 grade, necessary excavation, supplying, fixing 4 Nos. 16mm dia M.S. rungs, M-20 grade foundation concrete 1:3 cement mortar(1 cement: 3 sand) plastering of 13mm average thickness for inside & 16mm avg. thickness for outside exposed surfaces, backfilling, disposal of surplus earth upto a lead of 100M, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry, painting the C.I.frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat etc. all complete as per drawings, specifications and directions of Engineer-in-Charge.				
243	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	60,000.00	1,20,000.00
244	Construction, supplying, installation, testing and commissioning of septic tank as per standards and IS:2470 Part-I , with all necessary accessories like inlet, outlet vent pipes, manhole covers, rungs etc. including earthwork in excavation in all type of soil except soft and hard rock, backfilling and disposal of surplus earth for all leads etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge				
245	All material including cement supplied by contractor for (Users - 10 NOS)	1	Nos	55,000.00	55,000.00
246	**MISCELLANEOUS ITEMS**				
247	Supplying and fixing in position entrance gate in complex boundary wall fencing manufactured out of steel frame work and square MS bars of 20 mm at 100 c/c and horizontal name plate band at lock rail level suitably hinged with box type steel post embedded in cement concrete i.e. providing the tension bar for smooth operation and locking arrangement etc. complete as per tender specification, including painting with two coats of anti-corrosive paint and two coats of approved aluminium/synthetic enamel paint etc. complete as per drawings, specifications and directions of Engineer-in-Charge.				
248	4.0M clear opening width of gate in two panels.	3	Nos	2,00,000.00	6,00,000.00
249	Supplying & Laying interlocking Paver Blocks for roads, footpaths and any other place etc. including providing 50 mm thick sand filling below Paver Blocks including compaction of sand layer, filling the joints by dry sand, providing precast kerb stone of PCC M-20 at edges, including preparation of compacted sub-grade etc. all complete as per drawing, standard and directions of Engineer-in-Charge. (All material including cement supplied by contractor, paver blocks shall confirm to IS: 15658. cloour and shape of paver block shall be as per owner requirements for following thickness of paver blocks				
250	(Thickness - 60 mm)	385	M2	1,500.00	5,77,500.00
251	Supply and installation on terrace, high density polyethylene drinking water circular tank as per IS:12701 and ISI marked including supply and installation of all fittings, cover with suitable locking arrangement, float valve, making necessary holes for inlet, outlet and overflow connection and vent pipe etc. and the base supports for tank including supply of all necessary material all complete as per specifications and directions of Engineer-in-charge. (Sintex or equivalent having valid ISI license) for following capacities.				
252	capacity - 500 litre	2	Nos	18,000.00	36,000.00
253	Supplying, installation, testing and commissioning of Upflow Anaerobic Filter with bleaching tank as per TE Std. Drawing with all necessary accessories like, Upstream inlet CI piping from septic tank, Downstream outlet RCC NP2 class piping up to surface storm water drains, CI pipes for filter chamber, CI valve, RCC pre-cast pit covers, steps, perforated pre-cast slabs etc., inlet chamber, Filter chamber, deluding chamber including earthwork in excavation in all type of soil including soft rock, backfilling with murrum or approved soil arranged by the contractor, disposal of surplus earth etc. complete as per drawings, specification and direction of Engineering-Charge (All materials including cement shall be supplied by the contractor, Brick Class lower than 5.0 shall not be used). - Upto 10 Nos. user	1	Nos	80,000.00	80,000.00
254	**DEMOLISHING AND DISMANTLING**				
255	**Brickwork**				

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. ENPROCON ENTERPRISE LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
256	Demolishing BRICKWORK (taking all necessary safety precautions) for all depths below plinth level including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	300.00	3,000.00
257	Demolishing BRICKWORK (taking all necessary safety precautions) for all heights above plinth level including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	350.00	3,500.00
258	**RCC**				
259	Demolishing RCC WORK (taking all necessary safety precautions) for all depths below plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	600.00	6,000.00
260	Demolishing RCC WORK (taking all necessary safety precautions) for all heights above plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	650.00	6,500.00
261	**PCC**				
262	Demolishing PLAIN CEMENT CONCRETE work (taking all necessary safety precautions) for all depths below plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc. disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation and backfilling shall be paid separately under relevant items)	10	cum	400.00	4,000.00
263	**MISCELLANEOUS ITEMS (REFER TE SPECIFICATION)**				
264	Sand Filling				
265	Supplying and filling approved SAND of specified quality under floors, in foundations, plinths, tank foundations etc. for all depths and heights including cost of sand,royalties,transportation to site for all leads and lifts, including loading, unloading, spreading in layers of loose thickness not exceeding 150 mm,watering,ramming,compacting with mechanical compactors and/or other equipment to the specified levels to achieve 85% relative density as per IS:2720 Part XIV,including preparation of subgrade to the required slope, providing testing apparatus and testing the degree of consolidation all complete as per drawings, specifications and direction of Engineer-in-charge. The rates shall be inclusive of the cost of all labour,material,equipments etc. all complete .	120	cum	1,450.00	1,74,000.00
266	**SAND GRAVEL MIX**				
267	Supplying and filling sand gravel mix (1:1) with approved aggregate below road, RCC pavement, manholes, pits, foundations, bedding of UG piping etc. in layers of 150 mm loose thickness (maximum) including watering, ramming, rolling, compacting to achieve 85% relative density as per IS 2720 Part-XIV, quarrying, royalties, transportation, handling, etc. all complete as per drawings, specifications and directions of Engineer-in- Charge. (The rate shall be inclusive of the cost of all labour, material, equipment etc. all complete)	122	cum	1,000.00	1,22,000.00
268	**GROUTING WITH NON-SHRINKABLE COMPOUND**				
269	Providing and laying manually or by pumping at all positions a ready mix non-shrink cementitious grout of compressive strength specified below for specified works e.g. pipe support, base grouting of rotating equipment and other installation complete in all respects as per scope of work, detailed construction drawings , technical specifications and directions of the Engineer-In-Charge.				
270	Having compressive strength of 30 N/mm2 , Per bag of 25 Kg	100	Bags	1,000.00	1,00,000.00
271	Having compressive strength 45 N/mm2 , Per bag of 25 Kg	20	Bags	1,000.00	20,000.00

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272	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains, SS trench of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.	10	SQM	1,000.00	10,000.00
273	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, leve and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	17	M3	1,000.00	17,000.00
274	Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M-25, of size 1000x450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos. cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of the Engineer-In-Charge.	630	EACH	1,000.00	6,30,000.00
275	**Borewell and recharge well**				
276	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job all complete as per drawing, direction of Engineer -in-charge, in all types of soil :	130	M	3,500.00	4,55,000.00
277	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge.	130	M	550.00	71,500.00
278	Providing and fixing Bail plug/ Bottom plug of required diameter to the bottom of pipe assembly of tubewell as per IS:2800 (Part-I). :150mm dia	3	EACH	2,800.00	8,400.00
279	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	1,500.00	7,500.00
280	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	1,200.00	6,000.00
281	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	1,500.00	7,500.00
282	Gravel packing in tubewell construction in accordance with IS:4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of the Engineer-In-Charge.	3	M3	1,500.00	4,500.00
283	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS:4270, of reputed & approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size dia having minimum wall thickness 5.00 mm	5	M	1,500.00	7,500.00
284	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	60	M	1,500.00	90,000.00
285	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/ 3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS:8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	25	M	1,500.00	37,500.00
286	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of 150 mm diameter	1	Nos	300.00	300.00
287	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS:2800 (Part-I), including necessary bolts & nuts of required size complete 150 mm diameter.	1	Nos	300.00	300.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. ENPROCON ENTERPRISE LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
288	Supply, Installation and commissioning of 1.5HP Borwell Submersible Pump	1	EACH	15,000.00	15,000.00
289	Supply and Installation of 3Cx10Sqmm Copper Flat Cable	200	M	250.00	50,000.00
290	**LANDSCAPING**				
291	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment).	810	M3	900.00	7,29,000.00
292	Fine dressing of the ground.	2700	M2	110.00	2,97,000.00
293	Providing & laying Selection no. 1 grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden and than rolling the surface with light roller make the surface smoothen and light watering the same maintenance for 30 days or more till the grass establish properly,as per direction of officer in charge	2700	M2	110.00	2,97,000.00
294	Conducting topographical ground/land survey in the specified area as shown in the tender drawings by conventional/GPS or any other standard method, covering details of physical features like Rivers, Nallahs, Lakes, Ponds, wells, pits, Forest, Trees, Roads, culverts, transmission lines, telegraph/ telephone and electric poles, underground or any other services, cross drainage works including cross sectional details of nallah etc. including establishing high flood level with source of information, identification of any monument, historical structure, wild life sanctuary in the vicinity, storm water disposal point with levels, cross-section details of nallah, recording spot levels, top level of nearest state highway or National Highway, including providing in tabulation girth wise no. of trees etc as specified, plotting and developing topographical contour maps, showing true north including establishing survey reference stations, key plan etc. including all equipment's, instruments, personnel's, clearing of bushes as per requirement for intervisibility to carry out survey work etc. , complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of drawings/map and supply of electronic files. Note: Survey work shall be carried out by survey agency approved by Contractor and sample spot witness of levels cordinates by PMC, and shall be submitted to PMC/Owner for review.Survey drawing will be provided in A0 size with clear visibility of all the spots/levels/ contoure and Bench marks. Permanaet bench mark will be stabished at site in a 450x450 mm size 600mm high bick masonry piller.	6950	M2	200.00	13,90,000.00
295	**GEO TECHNICAL INVESTIGATION (Z/02/0022)**				
296	Conducting soil investigation with boring including all field tests and laboratory tests, mobilization and demobilization of equipments & personnel etc. for soil investigation for each borehole location. complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of Reports & recommendations and supply of electronic files.	5	Nos	1,50,000.00	7,50,000.00
297	**ANTI-TERMITE TREATMENT**				
298	Supplying chemical emulsion in sealed containers including delivery as specified in the Technical Specifications.				
299	**Chlorpyriphos/ Lindane emulsifiable concentrate of 20%**	200	LITRE	1,000.00	2,00,000.00
300	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
301	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc. as per Techinal specifications and direction of engineering in charge: With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	80	METRE	550.00	44,000.00
302	Treatment of soil under floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the floor:				
303	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	250	SQM	400.00	1,00,000.00
304	Supply and installation 60mm dia GI pipe for column support of gate	15	M	300.00	4,500.00
305	Supply and installation 100mm dia MS pipe	15	M	400.00	)00.00

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306	Supply and installation 50mm dia MS pipe	15	M	500.00	7,500.00
307	Supply and installation of U-PVC pipes (working pressure 4 kg / cm²) Single socketed pipe 75 mm dia for weep holes	300	M	250.00	75,000.00
308	**Sub-Total Section C**				**9,39,77,890.00**
309	**SECTION-D [CATHODIC PROTECTION WORKS]**				
310	**Cathodic Protection system**				
311	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning & Monitoring of the temporary cathodic protection [TCP] system using galvanic anodes to protect the external surface of the pipeline against soil-side corrosion for minimum 2 year or till commissioning of permanent CP system whichever is later . All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard drawings and vendor list as attached with this tender and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	28,00,000.00	28,00,000.00
312	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning of permanent cathodic protection system for 40 years. The scope of work also includes post commssoning surveys and repair of coating/ rectification of cathodic protection system based on the post commissioning surveys. In additon to the same, AC Interference study on the pipelines to be performed and mitigation measures takes to the satisfaction of Owner/ CONSULTANT. All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard and vendor list attached and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	28,00,000.00	28,00,000.00
313	**Sub-Total Section D**				**56,00,000.00**
314	**SECTION-E [ELECTRICAL WORKS]**				
315	**ELECTRICAL**				
316	**SWITCH BOARDS / UPS SYSTEM/ PANEL**				
317	Supply , Installation, testing and commissioning of LT Switch-boards, AC UPS system with UPS Distribution board & Ni-Cd Battery banks , distribution boards, cubicles with electrical equipment, misc. electrical panels etc., including transportation from store/yard to site at the place of installation, unpacking, assembly, including mounting and wiring of loose parts supplied by equipment vendor, interconnection of shipping sections and requisite inter-panel wiring between shipping sections, including supply of all wiring materials, installation on foundations or fixing to wall or steel structures, aligning, levelling, grouting, including all labour and materials, as per approved drawings, specifications of this tender and directions of Engineer-in-Charge.				
318	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted MEDB	2	Nos	5,50,000.00	11,00,000.00
319	Supply , erection , termination , earthing and commissioning of wall mounted OLDB as per single line diagram of DT stations	1	Nos	1,50,000.00	1,50,000.00
320	Supply , erection , termination , earthing and commissioning of wall mounted ILDB as per Single line diagram of DT stations	1	Nos	1,50,000.00	1,50,000.00
321	Supply , erection , termination, earthing and commissioning of wall mounted SSDB as per Single line diagram of DT stations	1	Nos	1,00,000.00	1,00,000.00
322	Supply , erection , termination , earthing and commissioning of wall mounted AC DB as per Single line diagram of DT stations	1	Nos	1,00,000.00	1,00,000.00
323	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 6 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of DT stations	1	SET	4,00,000.00	4,00,000.00
324	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for DT stations.	1	SET	6,00,000.00	6,00,000.00

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325	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 1 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of RT stations	1	SET	5,00,000.00	5,00,000.00
326	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for RT stations.	1	SET	6,00,000.00	6,00,000.00
327	Supply , erection , and commissioning of 415 V SFU as per Single line diagram of DT stations including liasioning with SEB as per Tender specification and direction of Engineer- In charge.	1	Nos	4,00,000.00	4,00,000.00
328	**POWER AND CONTROL CABLE**				
329	Supply , laying , termination , erection and testing of 1.1 KV Power and control FRLS PVC Outersheath, XLPE insulated, armored Cables . Outdoor cable will be laid in buried cable trench and in Indoor cable will be laid in Cable trench by provision of Cable tray and supports inside the trench as per PTS - Electrical package P.017110 G 11077 E002				
330	3.5C x 95 sqmm AL FRLS XLPE	300	M	1,800.00	5,40,000.00
331	3.5C x 70 sqmm AL FRLS XLPE	100	M	1,500.00	1,50,000.00
332	3.5C x 50 sqmm AL FRLS XLPE	50	M	1,200.00	60,000.00
333	3.5C x 25 sqmm AL FRLS XLPE	100	M	**800.00**	80,000.00
334	4C x 16 sqmm CU FRLS XLPE	100	M	800.00	80,000.00
335	3C x 2.5 sqmm CU FRLS XLPE	170	M	250.00	42,500.00
336	3C x 6 sqmm CU FRLS XLPE	250	M	400.00	1,00,000.00
337	4C x 6 sqmm CU FRLS XLPE	350	M	480.00	1,68,000.00
338	2C x 6 sq.mm CU FRLS XLPE	100	M	250.00	25,000.00
339	2.5 sqmm Cu. Wire	1800	M	90.00	1,62,000.00
340	6 sqmm Cu. Wire	600	M	150.00	90,000.00
341	**Earthing & Lightning**				
342	Supply , Installation , testing and comissioning of GI Earth electrodes & Cu plate type earth pit complete with earth pit as per IS 3043, PTS-Electrical package and all necessary material including exacavation of earth pit , filling with charcol and salt , back filling, brick work , connections including all labour and materials as approved drawing and specification of this tender and direction of Engineer-In charge.				
343	**GI Earth Electrodes**				
344	65mm dia x 3000 mm L GI pipe electrode type Earth pit	15	Nos	15,000.00	2,25,000.00
345	**Cu plate Earth Electrode**				

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346	600x600x3mm Cu plate type Earth pit	8	Nos	18,000.00	1,44,000.00
347	**Earth strip and wire**				
348	50x 6 mm GI Flat strip	850	M	250.00	2,12,500.00
349	25 x 6 mm Cu Flat strip	50	M	150.00	7,500.00
350	2.5 Sqmm Cu wire	250	M	90.00	22,500.00
351	25 x 6 mm GI Flat strip	200	M	150.00	30,000.00
352	10 Sq.mm earthing cable	250	M	150.00	37,500.00
353	GI Earth Bus 50x 6 Sq.mm with all installation assesories	3	Nos	15,000.00	45,000.00
354	Cu. Earth Bus 50x 6 Sq.mm with all installation assesories (in control room)	4	Nos	15,000.00	60,000.00
355	25x3 mm GI Flat for Lightning as well as down conductors for DT station as per overall earthing layout and GGNG-E-20713-3007	80	M	150.00	12,000.00
356	Other lightning assesories like 20mm dia copper rod, hollosphere ,200x200x6mm ms plate ,anchor/fastner ,test links for DT station as per overall earthing layout and GGNG-E-20713-3007	1	LOT	40,000.00	40,000.00
357	**OUTDOOR Lighting**				
358	Supply , erection , Testing & commissioning of Outdoor area lighting system including with supply of flameproof / weather proof light fixture , pole , junction box and earthing including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender & Overall outdoor lighting layout of DT & RT station and directions of Engineer- In charge.				
359	100W FLP LED Fixture & FLP Junction box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	4	Nos	15,000.00	60,000.00
360	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	2	Nos	25,000.00	50,000.00
361	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in RT Stations.	7	Nos	25,000.00	1,75,000.00
362	1x160W FLOOD LED Fixture with weather proof junction box & 9 mtr high pole with all assesories for open area	9	Nos	60,000.00	5,40,000.00
363	1x70 W Solar type Street LED Fixture with weather proof junction box, VRLA Battery (72 hrs backup time) & 9 mtr high pole for street lighting	6	Nos	60,000.00	3,60,000.00
364	1x27 W Post Top Lantran LED Fixture for Gate with weather proof junction box for Gate lamp	2	Nos	8,000.00	16,000.00
365	1x36 W LED industrial fixture suitable to building parapet /wall with all assesories like weather proof junction box/clamp/reducer/	2	Nos	5,000.00	10,000.00
366	**INDOOR Lighting**				
367	Supply, erection, Testing & commissioning of Indoor building area lighting system including with supply of light fixture, point wiring including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender and directions of Engineer- In charge.				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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368	2x20 W LED recessed decorative fixture for control room	5	Nos	2,000.00	10,000.00
369	2x20W LED Industrial Fixture for Electrical room	2	Nos	2,000.00	4,000.00
370	1x40W LED Flameproof Fixture for Battery room	1	Nos	2,000.00	2,000.00
371	2x18W LED Industrial Fixture for Varanda/Toilet/ water cooler area/ Guard room	6	Nos	2,000.00	12,000.00
372	1x36W LED Industrial Fixture	4	Nos	2,000.00	8,000.00
373	2x20 W LED recessed decorative fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) control room.	2	Nos	2,000.00	4,000.00
374	2x20W LED Industrial Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Electrical room	2	Nos	2,000.00	4,000.00
375	1x40W LED Flameproof Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Battery room	1	Nos	2,000.00	2,000.00
376	**Switch socket**				
377	Supply and Installation of single/ three phase Switch socket as per Indoor Illumination layout for DT & RT and PTS-Electrical Package and directions of Engineer-In Charge				
378	5/15A surface type switch socket (1 Ph)	7	Nos	1500	10,500.00
379	5A flush type switch socket (1 Ph)	4	Nos	800.00	3,200.00
380	16A Switch socket (I Ph)	3	Nos	1,200.00	3,600.00
381	20A Switch socket for AC (1 Ph)	4	Nos	1,800.00	7,200.00
382	Flame proof Junction box for Exhaust fan in Battery room	2	Nos	8,000.00	16,000.00
383	32A Switch socket for welding receptacles (3 Ph)	1	Nos	5,000.00	5,000.00
384	Modular switch board	12	Nos	2,000.00	24,000.00
385	**FANS and Exhaust FAN**				
386	Supply ,Installation and testing of Ceiling Fan and Exhaust fan with louvers including all labours and materials as per Indoor Illumination layout for DT and PTS-Electrical Package and directions of Engineer-In Charge				
387	Ceiling Fan 230V AC 1200 mm sweep	3	Nos	3,000.00	9,000.00
388	450 mm FLP Exhaust Fan for Battery room	2	Nos	2,000.00	4,000.00
389	200 mm Exhaust Fan for Toilet	1	Nos	1,500.00	1,500.00

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390	300 mm Exhaust Fan for Electrical room/ CO2 room	3	Nos	1,800.00	5,400.00
391	**Air conditioning unit**				
392	Supply ,Installation and testing of Five star 1.5 Ton Split AC with outdoor compressor unit including all labours and materials as per Typical Indoor Illumination layout for DT and directions of Engineer-In Charge				
393	Split Air condition Five star 1.5 Ton	4	Nos	85,000.00	3,40,000.00
394	**Hardware and other Accessories**				
395	Supply and Installation of Hardware and other accessories including all labours and materials as per Tender specification PTS-Electrical Package P.017110 G 11077 E002 and directions of Engineer-In Charge				
396	Rubber mat	15	M	1,200.00	18,000.00
397	Rubber hand gloves	1	PAIR	800.00	800.00
398	Warning Marker	1	Nos	1,500.00	1,500.00
399	PVC Conduit with bend ,tee and other required assesories	1	LOT	5,000.00	5,000.00
400	CAUTION Board & Sock treatment chart	1	Nos	5,000.00	5,000.00
401	Cable route marker as per Standard drawing TE-IN-STD-G-0327	1	LS	10,000.00	10,000.00
402	Fire extingusher and SAND Bucket with Stand	1	SET	10,000.00	10,000.00
403	Ladder type Cable tray - hot dip Galvanized Prefabricated 450 mm wide	55	MTR	500.00	27,500.00
404	Perforated type Cable tray hot dip Galvanized Prefabricated 450 mm wide	35	MTR.	500.00	17,500.00
405	**Cable Glands**				
406	Cable Glands : Flame proof IIA/IIB double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
407	Cables with upto OD 20 mm & above OD 20 mm as per Single line diagram of DT & RT station	1	LOT	50,000.00	50,000.00
408	Cable Glands : Weather proof double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
409	Cables with upto OD 20 mm to 40 mm as per Single line diagram of DT & RT station	1	LOT	25,000.00	25,000.00
410	**Sub-Total Section E**				**82,90,200.00**
411	**SECTION-F [INSTRUMENTATION WORKS]**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. ENPROCON ENTERPRISE LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
412	**INSTRUMENTATION**				
413	**SUPPLY**				
414	Supply of Pressure Transmitter along with 2 valve manifolds with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	40,000.00	2,00,000.00
415	Supply of Pressure gauge including high range along with 2 valve manifolds with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	18	Nos	40,000.00	7,20,000.00
416	Supply of Pressure gauge including Low Range along with 2 valve manifolds, gauge saver with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	3	Nos	40,000.00	1,20,000.00
417	Supply of temperature element (RTD) along with flanged thermowell mounted for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	40,000.00	2,00,000.00
418	Supply of Temperature Transmitter with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	7	Nos	40,000.00	2,80,000.00
419	Supply of skin type temperature element (RTD) for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I003), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	2	Nos	60,000.00	1,20,000.00
420	Supply of Local control panel with all accessories as per Data sheet (P.017110 G 11087 I011), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, SAT of local control panel,supports/ frame fabrication, earthing and screwing plug for unused entries, painting and integration with RTU. Termination of all Other panel SCADA hard wired signal including RS-485 signals through LCP for RTU/SCADA by Bidder. 1. Digital Barriers 2. Analog Barries 3. Relays 4. three poisition selector switch 5. LED indication lamps 6. Push buttons 7. terminal blocks 8. internal wiring 9. MCBs 10. Door switches 11. cooling Fan 12. LED lights	2	Nos	5,00,000.00	10,00,000.00
421	Supply of Ex-proof junction box with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, iincluding Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.	4	Nos	90,000.00	3,60,000.00
422	Supply of Corrosion Monitoring system with corrosion coupon, Corrosion probe, transmitter and digital indicator (mounted in LCP) as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. ENPROCON ENTERPRISE LIMITED

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423	Corrosion coupon along with accessories.	2	Nos	65,000.00	1,30,000.00
424	Corrosion probe along with transmitter, digital indicator, barriers and accessories.	2	Nos	2,50,000.00	5,00,000.00
425	Supply of Conventional Type Microprocessor based fire detection system along with smoke detector, heat detector, cabinet, manual call point, Independent 24 Hrs battery backup with 15 min in alarm state, repeater panel and Electrical Operated Siren, exit signs and cables fromsensor ,MCP, siren, hooter to controller as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
426	Controller along with cabinet along with cabling	1	Nos	50,000.00	50,000.00
427	Multisensor (smoke & heat)	10	Nos	4,000.00	40,000.00
428	WP IP 65 Manual call points	6	Nos	4,000.00	24,000.00
429	Ex Proof and WP IP 65 Manual call point	1	Nos	8,000.00	8,000.00
430	WP Hooter & Flasher	1	Nos	4,000.00	4,000.00
431	Repeater panel	1	Nos	8,000.00	8,000.00
432	Exist sign	6	Nos	2,000.00	12,000.00
433	Electrical siren Exd	1	Nos	15,000.00	15,000.00
434	24 Hrs battery backup	1	Nos	50,000.00	50,000.00
435	Supply of Conventional type gas detection system along with controller, ex proof point gas detectors, beacon hooter, flasher, , cabinet, portable gas detector, calibration kit, alignment kit as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
436	Controller with cabinet	1	Nos	50,000.00	50,000.00
437	Point gas detectors	12	Nos	5,000.00	60,000.00
438	Panel Mounted hooter	2	Nos	5,000.00	10,000.00
439	Dual tone Hooter & Beacon Ex"d" with reset push button	2	Nos	15,000.00	30,000.00
440	Portable gas detecotrs	1	Nos	5,000.00	5,000.00
441	Calibration kit	1	Nos	15,000.00	15,000.00
442	Ex d Junction Box	2	Nos	15,000.00	30,000.00

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443	Supply of Universal type Hand Held Configurators for transmitters with carrying case, rechargeable batteries (one working and one standby), and battery charger as per Data sheet,PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work	1	Nos	1,50,000.00	1,50,000.00
444	Supply of Instrumentation signal cable, control cable, communication cable/LAN cable, Power cables along with all sizes cable glands (WP & Exd), PVC hood, lug, ferrule, etc including Cable laying (buried as well as tray) along with termination, glanding, meggering and loop checking including supply of ferrule, lugs, cable tie, cable clamp, cable marker etc. as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.				
445	1Px 1.5mm2	500	MTRS	180.00	90,000.00
446	12Px 0.5mm2	900	MTRS	650.00	5,85,000.00
447	1Qx1.5mm2	30	MTRS	250.00	7,500.00
448	12Tx1.5mm2	200	MTRS	800.00	1,60,000.00
449	1Tx1.5mm2	180	MTRS	200.00	36,000.00
450	6Px0.5mm2	200	MTRS	250.00	50,000.00
451	2Px1.5mm2	200	MTRS	150.00	30,000.00
452	Cat 5 (LAN)	160	MTRS	250.00	40,000.00
453	3C x 2.5mm2	240	MTRS	350.00	84,000.00
454	Supply & laying of Instruments cable tray with tray cover (Branch Cable tray (50mm x 50mm), Main cable tray 900 mm, cable tray 300mm, cable tray 150 mm.) as per requirement, instruments/ PGD, CCTV/ mounting poles, instrument protection sun sheds, angles, channels, MS plates & all the erection materials and as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including installation of support, cable clamping, installation of tray cover and support painting.	1	LS	50,000.00	50,000.00
455	Supply , installation & laying of tubes and fittings as per requirement and as per PTS-Instrumentation with appendices and Scope of Work C&I. SS 316L TEE (1/2", Class 3000#, Screwed, NPTF, Seamless) ,SS316L GLOBE/BALL VALVE (1/2", Class 800#, Screwed, NPTF, Seamless), SS316L PLUG (1/2", Screwed, NPTM, Hex head, class 3000#), SS316L PIPE NIPPLE (½" NPTM, seamless, schedule #160) Length of the pipe nipple as per requirement, SS316L MALE CONNECTOR (1/2" OD x 1/2" NPTM), SS316L FEMALE CONNECTOR (1/2"OD x 1/2" NPTF), SS316L UNION (1/2" OD), SS316L TUBE (1/2" OD x 0.065" WT), SS316L TUBE (1/4" OD x 0.035" WT)	1	LS	5,00,000.00	5,00,000.00
456	Supply of mandatory spares as per Mandatory Spare **(P.017110 G 11075 I001)**	1	LS	5,00,000.00	5,00,000.00
457	**AT Bokaro** Installation of metering skids, metering cabinet under the supervision of skid supplier, cable laying and terminal of cable from skid junction box to metering system cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	5,00,000.00	5,00,000.00
458	**AT Bokaro** Installation of gas chromatograph skid, analyser & controller cabinet under the supervision of skid supplier, cable laying and terminal of cable from analyser cabinet to controller cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	5,00,000.00	5,00,000.00
459	**AT Bokaro** Installation of H2S & Moisture analyser skids, cabinet under the supervision of skid supplier, laying and terminal of cable from skid field mounted cabinet to LCP/RTU. Including supply of all the required erection, fabrication and civil materials.	1	LS	5,00,000.00	5,00,000.00

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				Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**

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460	**Sub-Total Section F**				**78,23,500.00**
461	**SECTION-G [TELECOM WORKS]**				
462	**AT SV 01** Supply of Input out puts cards in existing Remote Terminal unit along with internal wiring at site and configruation of new parameters in existing RTU as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, Installation of Input out puts cards in existing Remote Terminal unit along with internal wiring at site, interfacing with LCP and configuration of new parameters in existing RTU, as per Scope of Work at SV 01				
463	32 channels digital input cards	1	Nos	45,000.00	45,000.00
464	16 Channel digital output cards	1	Nos	35,000.00	35,000.00
465	12 channel Analog input cards	1	Nos	25,000.00	25,000.00
466	Supply Telecommunication system, SDH equipment STM-4 Based SDH Cabinet of (2000H x 800W x 800W along with 100 mm base frame) as per below configuration: - 2*STM-4 + 2*STM-1 + 8FE ports as per PTS-Telecommunication system (P.017110 G 11077 I002), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including erection, testing, integration with existing NMS at Noida, Commissioning and integration with existing telecom system at SV 01 additional SFP of L4.2 for SV 01 connectivity	1	Nos	1,50,000.00	1,50,000.00
467	Supply of CCTV-IP based Fixed colour camera and PTZ colour camera along with power cable, communication cable at each station as per PTS-Telecommunication system (P.017110 G 11077 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work., including erection, testing, integration with existing VMS at Noida, Commissioning and integration with existing telecom system at SV 01				
468	Fixed Camera WP IP65	1	Nos	80,000.00	80,000.00
469	PTZ camera WP IP65	1	Nos	80,000.00	80,000.00
470	Supply of one Analog phones control room, one number in guard room and one number WP IP66 in field safe area as per PTS-Telecommunication system (P.017110 G 11077 I002) , PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work				
471	Analog Phone	2	Nos	8,000.00	16,000.00
472	Analog Phone Ex Proof WP IP 65	1	Nos	12,000.00	12,000.00
473	FXO cards	1	Nos	12,000.00	12,000.00
474	FXS	1	Nos	12,000.00	12,000.00
475	Five pair armoured telephone cable, size 0.5mm2	100	MTR	80.00	8,000.00
476	**AT Bokaro** Free issue RTU by GAIL: Transportation from Gail store to site location, installation, cabling from LCP to RTU, commissioning etc. Erection, installation of RTU inside the station control room including supply of all the required erection materials, fabrication and civil works	1	LS	4,00,000.00	4,00,000.00
477	**Sub-Total Section G**				**8,75,000.00**
478	Total of Section A + B + C + D + E + F + G				**25,06,96,590.00**

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479	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Total of Section A + B + C + D + E + F + G above	18	percentage		4,51,25,386.20
480	Rate of Extended Stay Compensation per month beyond the time schedule and grace period mentioned in Bidding document for reasons solely attribute to Owner (exclusive of GST) Notes:- 1;- Extended Stay Compensation shall be loaded on the quoted price as per evaluation methodology. 2;- In case, no rate for extended stay compensation is stipulated, it will be considered that extended stay compensation is not required by the Bidder and the rates quoted by them shall be valid till completion of works in all respects.	1	Nos		5,00,000.00
481	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Extended Stay Compensation at Sl. No. 480 above	18	percentage		90,000.00
	Grand Total				29,64,11,976.20

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Checked

Approved

TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
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				UNIT RATE	TOTAL RATE
1	**SECTION-A (MAIN LINE WORKS)**				
2	**CH.0.00 KM to CH.23.436 KM**				
3	**MAINLINE, PIPING AND MECHNICAL**				
4	**PIPELINE LAYING / INSTALLATION** Laying/ installation of coated line pipe, associated fittings and accessories, etc. as per specifications, drawings, other provisions of Contract and instructions of Engineer-in-Charge, including but not limited to carrying out the following: "Receiving and taking-over", handling, loading, transportation and unloading of Owner supplied coated and bare line pipes and other Free Issue Materials from Contractor's own stock-yard to Work site including stringing on the pipeline Right-of-Use (ROU), Arrangement of all additional land required for Contractor's storage, Performing the additional survey wherein survey data is not sufficient in the opinion of Contractor, arrangement of working RoU if RoU width is not sufficient for equipment/ vehicle movement etc., access for construction (other than Owner provided ROU; Developing necessary access way to the worksite, including earth filling, levelling, etc.; supply of all materials (except Owner supplied materials), supply of all materials, consumables, equipment, labour, etc.; fabrication, Staking and installation of construction markers, clearing, grubbing, grading (as required) of Right of Use; clearing and grading of ROU; Cutting/ uprooting of shrubs, plants, vegetation within ROU; , Trenching to all depths and to a width to accommodate the pipeline with optical fiber cable (inside HDPE Duct) by excavation in all types of soil (in case of hard rock, additional payment for hard rock breaking will be paid as per separate SOR line item), including additional trenching for seismic and other areas as specified,(Rate for laying of optical fibre cable and HDPE Duct not be included here and same to be quoted against separate SOR item); Carrying out repairs of pipe and coating defects not attributable to Owner; Thorough internal cleaning of all pipes by suitable methods to remove debris, shots, grits etc.; Stringing of line pipes along ROU including providing straw bags, soft padding/sand padding; Aligning, cold field bending, cutting and beveling (as required) of pipes for welding and field adjustments, NDT & NDT of re-beveled area, welding, carrying out destructive & non- destructive testing of welds required as per approved NDT specifications (including radiography) and providing all requisite equipment, labour, supervision, materials, films, consumables etc.; carrying out repairs of weld joints as required, carrying out re- radiography and other non-destructive tests on repaired joints, etc.; Installation of carrier pipe including concrete coated pipes (wherever required),				
5	(Concrete Coating on pipes, covered separately) at all crossings including roads/ canals/ nala/ water crossings etc. (supply and installation of casing pipe by open cut or by Jacking/ boaring method covered separately) including pre-testing as required; Carrying out installation of carrier pipe in the casing pipe at cased crossings; Coating of all field weld joints, long radius bends (fabrication of Cold field bends covered here and fabrication of 6D bends by induction heating covered separately), buried fittings etc.; Supply & Installation of warning tape along the entire length of Pipeline including Crossing. Lowering the pipelines in trench, providing required padding over and around the pipeline with sand/graded material (in rocky areas), backfilling with available approved excavated material and/or other suitable soil (supply and providing of soft soil for pre & post padding in Rocky area); Supply and installation of slope breaker as per specifications and drawings in steep slope areas, wherever required; Carrying out hydrostatic testing including air cleaning, flushing, filling, gauging, pressurization of complete pipeline in various test sections as approved by Engineer-In-Charge to the specified test pressure, providing all equipment, pumps, fittings, instruments, dead weight tester, all types of pigs etc., and services, supervision, labour, consumables, arranging water required for hydrostatic testing including supply of corrosion inhibitor, air, etc. as required, locating of leaks and rectification of defects attributable to Contractor, re-testing after rectification, successful completion of hydro-testing of pipeline (De-watering covered else where in the SOR); including all tie-in(s) with the pipeline/ piping installed by others including cutting of test header, re- beveling as required; Carrying out all temporary, ancillary, auxiliary works and all incidental works required to make the pipeline ready for pre- commissioning; Carrying out EGP for the entire stretch of completed pipeline, Repair of defects recorded during EGP/gauge plate run or otherwise including cutting, beveling, welding, NDT, field joint coating etc.; as applicable, Final clean-up and restoration of right of use including obtaining NOC from respective statutory authorities as required and disposal of debris and returning all surplus material to designated disposal areas/storage yard, as directed by Engineer-In-Charge; Restoration of land, facilities and boundary wall etc. at associated facilities dismantled/damaged by the Contractor during construction; Obtaining work permits/ NOC from various statutory authorities having jurisdiction and complying with all stipulation/conditions/recommendation of the said authorities; Preparation of as-built drawings, pipe-book and other records. SOR shall be read in conjunction with Project drawings, scope of work, specifications, standards and other provisions of contract document. The work includes the Survey data & site preparation, Stringing/Chainges in direction, Beveling of pipe element, Welding Procedure Qualification & Welders Qualification, Welding of pipe element, Inspection & testing of production welds, Field joint coating, controlled blasting, chiseling, etc., Material hand over & material handling, Lowering-in & ballasting, All crossings except HDD as mentioned in Crossing List (including installation of carrier pipe inside the Casing at cased crossing) , Backfilling (for all depths in all types of soil, soft /hard rock) , including trench padding with sand, graded earth in rocky areas & rock shield(if required as per specs) reinstatement (restoration) and preparation of As-built Alignment & Crossing drawings.				

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6	All above works shall be executed in accordance with scope of work, GTS, PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. 1. Supply and Installation of OFC and HDPE Ducts along the entire pipeline route, adjacent to the new pipeline, along with all required accessories, fittings and associated items, is covered separately in the SOR. All above works for buried pipeline (including hook-up pipeline from Tap Off Point inside ONGC GCS, Bokaro upto proposed plot for GAIL DT), as per following details :				
7	ND12", API5L X70 - 6.4 mm	6500	M	2,150.00	1,39,75,000.00
8	ND12", API5L X70 - 7.1 mm	15850	M	2,300.00	3,64,55,000.00
9	ND12", API5L X70 - 8.7 mm	150	M	2,500.00	3,75,000.00
10	**Concrete slabs (Mechanical Protection) as per technical specifications** Supply, fabrication and installation of reinforced concrete weights. Reinforced steel size should be 8 mm. top and bottom at a rate of 200 mm c/c of precasted RCC 1:2:4 on pipeline of wall thickness of 75 mm thick and size as per specifications & Standard drawings and instructions of Owner/ Owner's representative including supply of consumables, materials, equipment, labor, supervision, all associated civil works.	382	M	2,000.00	7,64,000.00
11	**Continuous Concrete Coating** Supply of all consumables and materials, equipments, manpower, submission of application procedure with calculations for anti-buoyancy, design mix procedure qualification and application of continuous concrete weight coating thickness mentioned below (higher also, in case design requirements) on pipeline of all thickness, concrete weight coating of the field joints thereof, and performing all works as per specifications and instructions of Owner/Owner's representative and other provisions of CONTRACT DOCUMENT.				
12	35 mm thick	12	M	3,500.00	42,000.00
13	50 mm thick	12	M	4,000.00	48,000.00
14	**GEO TEXTILE BAGS FOR ANTI-BUOYANCY**				
15	Additional works over and above item no. 4 to 9 for design, manufacture and supply of Non-biodegradable geo-textile bags and installation of geo-textile bags duly filled with gravel/ stone ballast on pipelines of all wall thicknesses for anti-buoyancy, drawings, scope of work and instructions of Engineer-in-Charge and other provisions of the Contract document. Note: This item shall be applicable for Some crossings as per instructions of Engineer-incharge.				
16	ND12" (for all thicknesses)	12	M	500.00	6,000.00
17	**Permanent Markers** Supply, fabrication and installation of following types of permanent markers along the pipeline route including all associated civil works such as excavation in all types of soil, construction of pedestals and grouting with concrete, clearing, supply & application of approved color and quality of primer and paint, stencil letter cutting for numbers, direction, chainage, etc. restoration of area to original condition and performing all works as per drawings, specifications and instruction of Owner/Owner's Representative.				
18	Pipeline Warning Signs	35	Nos	9,000.00	3,15,000.00
19	Right-of-way boundary markers	94	Nos	1,600.00	1,50,400.00
20	Kilometer Markers	19	Nos	9,000.00	1,71,000.00
21	Aerial Markers	4	Nos	12,500.00	50,000.00
22	Navigable Waterway Markers	8	Nos	16,000.00	1,28,000.00
23	Directional Markers	297	Nos	8,500.00	25,24,500.00
	Repair of Defects in Pipe Coating (Attributable to OWNER)				

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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25	**Repair of Line Pipe Coating:** Supply of all coating repair materials as per the requirements of the relevant specifications, supply of all consumables, utilities, equipment, and all manpower required, pipe cleaning and surface preparation, repairing of coating defects (resulting in holiday in coating) and testing including all handling, transportation, etc. for line pipes, performing all works necessary for the completion of the works strictly in accordance with the relevant specifications and instructions of OWNER.				
26	**Repair of Holidays in Coating**	40	Nos	500.00	20,000.00
27	Repair of Cosmetic Defects in Coating: Description of same as in 25 above, but for repair of cosmetic defects in coating.	80	m2	60.00	4,800.00
28	Repair of Defects in Line Pipes				
29	Repair of OWNER supplied pipes of all wall thicknesses, recorded at the time of taking-over by CONTRACTOR at all places of work.				
30	Cutting and rebevelling	25	Nos	1,500.00	37,500.00
31	Jack out method	25	Nos	1,000.00	25,000.00
32	All works for locating burst (occurred during hydrostatic testing and tightness test attributable to Owner issued materials) including detecting burst, necessary repairing/replacing defective pipe lengths, including cutting out and removing the defective pipe, pretesting the replacement pipe, welding of replacement pipe into mainline and NDT of welding, repair and re-testing of defective welds, coating of welded joints, cleanup, retesting including providing all labor, materials, consumables and inputs other than OWNER supplied materials and performing all works as per drawings, specifications and directions of Owner/ Owner's representative. In case of pinhole leaks not easily detectable all works for locating leak (occurred during mechanical resistance test and tightness test attributable to Owner issued materials) including detecting leak, The Payment will be made as per actual efforts and based on Equipment and manpower Rate provided in SCC . Further replacement & retesting will be paid as above.	2	Per burst	45,000.00	90,000.00
33	**LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER) (FOR TERMINAL PIPING)** **LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER DUE TO FIM)** All works for leak/burst (occurring during hydrostatic testing) by necessary repair/replacement of defective pipe length, including cutting and removing out defective pipes, welding, NDT of welds, repair and re-testing of defective welds, painting of welded joints, clean-up, re hydro testing of the pipe segment including providing all necessary equipment, labour, materials, consumables and inputs other than Owner supplied materials and performing all works as per drawings, scope of work, specifications, standards enclosed with the Contract and directions of Engineer-in-Charge. Note: 1. This rate shall be applicable for manufacturing defects in Company supplied materials only.	18	Inch-meter	35,000.00	6,30,000.00
34	**IDLE TIME PRESERVATION OF PIPELINE** Preservation of complete pipeline and associated facilities and its maintenance including supply of all consumables, all equipment, man- power, etc., complete as per the requirements of specifications, scope of work, standards, other provisions of Contract document and instructions of Engineer-in- Charge. By filling and pressurizing with nitrogen including supply and maintenance of nitrogen as per following details:				
35	Pipe OD - 12 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - 3 MONTH	23800	M	25.00	5,95,000.00
36	Pipe OD - 12 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - FOR EVERY ADDITIONAL MONTH BEYOND INITIAL 3 MONTHS	23800	M	30.00	7,14,000.00
37	PRE-COMMISSIONING FOR NATURAL GAS PIPELINES SYSTEM, Carrying out pre-commissioning activities and pre-commissioning checks to the specified acceptance criteria, making the entire pipeline system ready for commissioning (It includes cleaning including magnetic cleaning, Electrical Geometrical Pigging survey, dewatering, swabbing,, pre-drying activity, Golden-tie ins connecting the stations),, supply of all equipment, man-power, consumables, including all type of pigs and required quantity of nitrogen, materials for all temporary works and performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.				

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38	Pipe OD - 12 INCH	23800	M	20.00	4,76,000.00
39	**Commissioning Assistance**				
40	**OVERALL COMMISSIONING OF ENTIRE PIPELINE SYSTEM** Overall commissioning including system checks, inertisation (as required) and charging of entire pipeline system, including all stations and all associated facilities including notifying the Company that the pipeline system is ready for commissioning; Review of status jointly with the Company and obtaining final clearance for start of commissioning; Development and submission of commissioning procedures, obtaining Company approval thereupon, carrying out overall commissioning of the total pipeline system including all facilities and all necessary coordination/ liaison with other Contractor(s) operations; Carrying out commissioning; Supply of all equipment like Nitrogen vapourisers (as required), along with all piping and instruments, temporary venting/ flaring/draining facilities as applicable, man-power, consumables including pigs and required quantity of Nitrogen (as required); Performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.				
41	Pipe OD - 12 INCH	23800	M	20.00	4,76,000.00
42	PIPELINE INFORMATION MANAGEMENT SYSTEM Providing pipeline information management system using web based software for monitoring pipeline construction progress and providing all "As Built" data & drawings for entire length of pipeline as per specifications enclosed with the tender document.	1	LS	45,00,000.00	45,00,000.00
43	VIDEO FILM & PHOTOGRAPHY OF CONSTRUCTION ACTIVITIES Preparation of high resolution video films with audio commentary and Industrial photography covering all aspects/activities of pipeline construction annotated as required, conversion of same to video DVD/Blue Ray format, submitting three (3) sets of the same as per details in scope of work document	1	LS	2,50,000.00	2,50,000.00
44	**FABRICATION OF LR BENDS :**				
45	Fabrication of 6D bend / LR (Induction) bends as per the relevant standard & Specification attached with the tender document from free issue linepipes (mother pipe) including but not limited to the following: "Receiving and taking over of free issue linepipes" from GAIL Dump Yard location as mentioned in Scope of Work, carrying out inspection of line pipe at the time of receive taking over in the presence of Company representative, carrying out repair of pipe defects attributable to Contractor after taking over, including supply of consumables & equipments; handling, hauling, transportation and loading/unloading required to transport the mother pipes between place of issue, LR bend fabricator/ manufacturer, intermediate storage as required, and final delivery of fabricated LR Bends to the worksite(s), as per requirement, Manufacturing/ fabricating of LR Bends, as per project requirements and Specifications. LR bends exact angle(s) shall be as per pipeline alignment. Note:- 1. Rate for repairing of defects in linepipes identified and recorded at the time of receiving & taking over i.e. defects attributable to Company shall be quoted separately in the applicable items of the SOR. 2.Loading of Pipe into installation contractor trailer shall be carried out by the GAIL Dumpyard maintenance agency already engaged by the Company.				
46	Bare Pipe ND12", API5L X70 - 7.1 mm	18	Nos	85,000.00	15,30,000.00
47	Bare Pipe ND12", API5L X70 - 8.7 mm	22	Nos	1,10,000.00	24,20,000.00
48	**SUPPLY AND INSTALLATION OF CASING PIPE & 6 INCH CS CONDUIT:** Supply and installation of casing pipe and 6 inch CS conduit for OFC by jacking / boring or open cut for rail, road or canal crossings wherever required in all types of soils and terrain separately for carrier pipes and fibre optic cable inside HDPE duct, supply of casing pipes and all other Contractor supplied materials viz. casing insulators and casing end seals as per enclosed drawing, materials for casing vents and drains, etc. including transportation, supply of all other materials, equipments, consumables, man-power, welding including visual inspection of all weld joints, installation of casing insulators, end seals, vents and drain-off pipes, backfilling and restoration as original of the facility crossed and performing all works as per drawings, specifications including PTS and GTS and instructions of Engineer-in Charge and provisions of Contract document.				

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49	Supply and installation of Casing pipe by Boring / Jacking as per item no. 48 (Other than Railway Crossings) Casing Pipe Details: (Pipe 18" , 6.4 mm Thick, API 5L GR.B)	100	M	21,500.00	21,50,000.00
50	Supply and installation of 6 inch CS Conduit by Boring/Jacking as per item no. 48 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	100	M	9,500.00	9,50,000.00
51	Supply and installation of Casing pipe by open cut as per item no. 48 Casing Pipe Details: (Pipe 18" , 6.4 mm Thick, API 5L GR.B)	100	M	15,000.00	15,00,000.00
52	Supply and installation of 6 inch CS Conduit by open cut as per item no. 48 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	100	M	6,500.00	6,50,000.00
53	**HDD CROSSING**				
54	**Generalities**				
55	Topographic / Bathymetry, Geotech Investigation and Hydrological data collection				
56	Site preparation				
57	Design & stress calculations as per requirement				
58	Material hand-over and material handling				
59	Site reinstatement				
60	Final dossier including all notes & calculations as required in the specification				
61	**Installation of 6 inch CS Conduit**				
62	Teletransmission--Separate Drilling for 6 inch CS Conduit for OFC installation				
63	Installation of HDPE duct & OFC cable inside 6 inch CS conduit				
64	Drilling & Pulling of 6 inch CS Conduit shall be done before mainline HDD.				
65	**Pipeline string**				
66	Beveling & welding				

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67	Inspection & testing of welds				
68	Field joint coating				
69	Temporary support (roller)				
70	Control of pipeline string				
71	Hydrotesting & leak test				
72	**Drilling operation**				
73	Earthwork entry / exit points including grading erection of embankment etc..				
74	Supply & clearing out of all material needed for drilling				
75	Drilling of washer pipe, reaming & cleaning of drill opening, supply and preparation of bentonite				
76	Pull back of the pipe string				
77	Disposal of surplus of soil & bentonite				
78	Control of the integrity of the coating				
79	**Work at entry point**				
80	Changes in direction				
81	Beveling & welding				
82	Inspection & testing of welds				
83	Field joint coating & coating of all bare section of pipe				
84	Earthwork				
85	Lowering-in				
86	backfilling as required				
87	**Work at exit point**				

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88	Changes in direction				
89	Beveling & welding				
90	Inspection & testing of welds				
91	Field joint coating & coating of all bare section of pipe				
92	Earthwork				
93	Lowering-in				
94	backfilling as required				
95	Complete work for the water/ Road/ Rail crossings, including taking over and handling of linepipes from Contractor Storage Yard to worksite, Arrangement of all additional land required for Contractor's storage, fabrication, access for construction; construction design calculation and engineering of the crossing, mobilization and demobilization at site(s), supply of all materials as per "Scope of Supply" and all consumables, equipment, manpower and other resources, and acquiring the required land for site preparations, and execution of, but not limited to, the following works in accordance with specifications, drawings, and as per provisions of the Contract document and instructions of the Company/ Engineer-in- Charge: Carry out all surveys required for collecting data relevant to design and construction of the crossing, preparation of all necessary construction drawings for Company's approval as per the provisions of the Contractor document, Preparation of detailed construction method statement and calculations including Scour Depth calculations for river/ canal crossings, Strings preparation including welding, 100% Radiography of welds, NDT of welds and re-beveled areas, radiography, weld repair and re-test, pre-testing of completed string, corrosion coating of field joints with Dirax or equivalent, inspection of corrosion coating and repair of defects, Preconstruction surveys and collection of all necessary data, Installation of pipeline and CS conduit (6 Inch CS Conduit shall be installed through Seperate Drilling) , horizontal directional drilling to the correct profile as per approved drawings and specification, Post-installation hydrotest including leaks and repair of defects and retesting, etc. for defects attributed to Contractor's faulty work, Supply, fabrication and construction of protective fencing as required, Hydrotesting, Supply, fabrication and erection of pipeline markers, Restoration and clean-up etc., Preparation of as-built drawings and other records etc., All other works not specifically listed herein, but required as per specifications, drawings, provision of contract document, calculations, and construction method statements, leading to successful completion of works.				
96	Linepipe details:- (Pipe 12" dia, Wall Thickness: 7.1 mm, Pipe Grade: API 5L GR.X-70 PSL 2, External Coating: 3LPE) CS Conduit details: (Pipe 6" dia, 6.4mm Thick, API 5L GR.B) Note: 1. CS Conduit shall be supplied by the Contractor. Radiography & Hydrostatic testing is not required to be done for CS Conduit. (6 Inch CS Conduit shall be installed through Seperate Drilling) Contractor shall quote accordingly. 2. The rate shall be applicable for the drilled length of the HDDs.	1300	M	16,000	2,08,00,000.00
97	All above works shall be executed in accordance with scope of work, GTS,PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. This line item is applicable for HDD crossing mentioned in the Crossing List with prior approval of Engineer - In-Charge during Construction.				
98	**SUPPLY & INSTALLATION OF OPTICAL FIBBE CABLE AND HDPE DUCT**				
99	Suppy of 24 Fibre Composite armoured Optical Fibre Cable drum (6 fibre G-655 & 18 fibre G-652) of 4 km +/-5% Cable drum length with fiber terminal closure, inspection chamber, electronic route marker all along pipeline route, Two number electronic locater as per PTS-Optical Fibre cable and Scope of Work C&I along with all required accessories and fitments not mentioned seperately.	26200	M	75	19,65,000.00

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100	Inspection/Jointing Chamber (fabricated or readymade)	8	Nos	7,500	60,000.00
101	Blowing Pit (fabricated or readymade)	25	Nos	12,500	3,12,500.00
102	Supply of jointing closure 24 Fiber, 2 way including all accessories (3M, Siemens, Reychem make only)	10	Nos	5,000	50,000.00
103	Supply of End to End OFC termination of wall mounted FTC with pig tails other accessories for termination of OFC - 24 Fibre in the Telecom Room at Bokaro & SV1	2	Nos	12,500	25,000.00
104	Electronic marker	8	Nos	2,500.00	20,000.00
105	Electronic Locator	1	Nos	4,20,000.00	4,20,000.00
106	Supply of 50mm OD permanently lubricated HDPE telecom duct along with all the required accessories as per PTS-Optical Fibre cable and Scope of Work C&I	26700	M	70.00	18,69,000.00
107	Laying of HDPE Duct : Laying of 50mm HDPE Ducts in same pipeline trench direct buried, or inside 6 inch CS conduit at various crossings as per Specification in all type of soil & terrain, excavated as required, padding, backfilling, etc. including supply of accessories required for HDPE Duct installation, including plastic couplers, end plugs, cable sealing plugs, end caps, etc. suitable & sufficient for above supplied ducts, cleaning and sealing of ducts at the end laid drum lengths, preparation and supply of cable blowing pit at each Km jointing of HDPE duct, testing of HDPE Duct and accessories after laying preparation of report and final drawing and documents as per specification, joint location marking, erection accessories, as-built, etc.	22500	M	25.00	5,62,500.00
108	Blowing of Optical Fibre Cable inside HDPE Duct : All activities pertaining to Blowing of Optical Fibre Cable in same pipeline trench directly (after testing drum at site), inside HDPE duct along the pipeline and at crossing, sealing using all materials required as per specification	22500	M	30.00	6,75,000.00
109	Installation of FTC & Wire mesh, termination of OFC on FTC / DDF inside telecom room, splicing with steet fibre, fibre test, OTDR test, power testing of laid OFC, identification of fault, rectification, earthing, final testing and commissioning, preparation of reports, etc. work complete in all respect with all necessary accessories for all location till final Handing Over and Taking Over by Owner of laid OFC.	1	LS	5,000.00	5,000.00
110	**TRANSPORTATION OF COATED AND BARE LINEPIPES FROM GAIL DUMPYARDS (ANY LOCATIONIN INDIA) TO CONTRACTOR STORAGE YARD:**				
111	"Receiving and taking over" of "free issue" Linepipes from GAIL Dump Yard location (any location in India); Carrying out inspection of Linepipes at the time of receiving and taking-over, recording of pipe & coating defects at the time of taking over in the presence of Company's representative, carrying out repair of coating defects & pipe defects attributable to Company; including supply of materials, consumables & equipments; handling, hauling and transportation from designated place of issue to Contractor Storage Yard; unloading and stacking of the linepipes at Contractor Storage Yard; including arranging all equipments, trailers, trucks & manpower; all works as per Scope of Work, drawings, PTS, GTS and other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, Provision of Contract & instructions of Engineer InCharge.				

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112	Linepipe Details:- Coated and Bare Line Pipe 12" diameter API 5L Gr. X-70 PSL-2 Wall Thickness - 6,4mm / 7.1mm / 8.7 mm External Coating - 3LPE, Internal Coating - Liquid Epoxy 1) Loading of Pipes into Installation contractor's trailer shall be carried out by the contractor. 2) Development & Maintenance of Contractor Storage Yard adequate to store the linepipes including arrangement of all Lifting & Handling equipment at Contractor's Storage Yard shall be done by the Contractor. Rate for the same shall be quoted in applicable items. 3) Rate for repairing of coating defects in linepipes identified and recorded at the time of receiving & taking over i.e. coating-defects attributable to Company shall be included in this item. 4) Rate for repairing of pipe-defects identified and recorded at the time of receiving & taking over i.e. pipe-defects attributable to Company shall be quoted separately in the applicable items of the SOR. 5) Transportation of line pipe from Contractor's Storage Yard to work site is included in SOR item 1 above, No separate payment will be applicable for the same.	220000	Ton-Km	35.00	77,00,000.00
113	**TRANSPORTATION OF FREE ISSUE PIPING ITEMS (OTHER THAN LINE PIPE) FROM GAIL STORAGE YARDS (ANY LOCATION IN INDIA) TO CONTRACTORS YARD / WORKSITE(S) :** "Receiving and taking-over", handling, lifting, loading, transportation and unloading of Company supplied "free-issue materials" (Other than line pipe) viz. Metering Filtering and PRS Skid, Scrapper Launcher/ Receiver & accessories, Valves with or without Actuators, Insulation Joints, Flow Tee, Pig Signallers, fittings, flanges etc. from GAIL Storage yards location (any location in India) to Contractor's Storage Yard / work-site(s). Note:- 1) Location of GAIL Storage Yard shall be anywhere in India. Contractor shall quote accordingly. 2) Transportation of FIM from Contractor's Storage Yard to work site, is included in SOR item 121 below, No separate payment will be applicable for the same.	15000	Ton-Km	30.00	4,50,000.00
114	**DEVELOPMENT OF CONTRACTOR STORAGE YARD:**				
115	Development of the Contractor Storage Yard including fencing, illumination etc., including deployment of all lifting and handling equipments, manpower required to stack, unload and load all Free Issue Material (FIM) including Line Pipes and all bought out items, as required; storage of all Free Issue Material and bought out items for the required duration as per project requirement, all works as per Scope of Work, drawings, other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, PTS, GTS and Provision of Contract & instructions of Engineer In-Charge. The storage yard shall be used for storage of all Free Issue Line pipes, all other Free Issure Material (FIM) and all bought out items required for the project. Notes:- 1) Development of contractor storage yard adequate to store all the material required for Project, including all Free Issue Material (FIM) and bought out items. (Rate for the same shall be captured in this item) 2) Maintenance of contractor storage yard for the entire project period is included in the scope of contractor. No separate payment shall be applicable for the same.	1	LS	5,00,000.00	5,00,000.00
116	Hard Rock breaking by controlled blasting / chiseling method (rate will be applicable in case when prior approval for rock breaking is obtained by the contractor from GAIL / PMC)	100	M3	1,200.00	1,20,000.00
117	Clean Agent Fire Supression System as per Scope of Work	1	LS	54,50,000.00	54,50,000.00
118	Restoration of underground utilities (pipes & cables) during excavation at ONGC, GCS Bokaro and Receiving Station (which is inside SV-01 Premises)	10	Nos	5,000.00	50,000.00
119	**Sub-Total Section A**				**11,30,56,200.00**
	SECTION-B [MECHANICAL (PIPING & TERMINAL WORKS)]				

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121	**PIPING WORKS AT DESPATCH AND RECEIVING STATIONS AND HOOK-UP WITH ONGC GCS, BOKARO** All works for installation of all piping at all elevations for Despatch and Receiving Stations as indicated in Drawings, Scope document, including supply of all consumables, Gaskets, nuts, bolts Studs, manpower, materials and equipment (except Company supplied free-issue materials), aligning, grouting, tie-in with pipeline and carrying out all mechanical works of underground and above ground piping including fabrication, welding, installation of all pipes, valves (manual & actuated), flanges, fittings, flow tees, pig signalers, insulating joints, corrosion monitoring probes /corrosion coupons, installation of instruments (pressure/temperature gauges, vents, drains-off, safety relief valves, electro hydraulic valves etc.) as indicated in P& IDs and GADs. 100% Radiography of weld joints of piping above 1.5 inch, Magnetic particle & Die penetration test for piping 1.5 inch & below, all NDT of welds, weld repairs/retesting, hydrostatic testing, cleaning/flushing, functional testing, de-pressurizing , Drying and dewatering, cutting and re-beveling (as required), hookup of all pipeline/utilities at the battery limit with the pipeline/utilities installed by others, obtaining all statutory clearances, approvals and permissions for the work (wherever required), excavation and filling in all types of soils including soft/hard rock for installation of piping/ pipe supports; corrosion coating and external painting (as required), finishing, clean-up and restoration of site, preparation of as- built drawings, documents and project records and performing all works as per drawings, specifications, other provisions of Contract document and instructions of Engineer-in-Charge. Civil/ structural works for piping supports will be paid separately as per unit rate provided elsewhere in the contract. Cost of Transportation of all materials (Including FIM mentioned above) for station works, from Contractor's own stock-yard to Work site, to be included in this SOR item. No separate payment will be applicable for the same.				
122	Fabrication and Erection of piping as per item no.110, (For Pipe Size 2 Inch and above, 100% Radiography) Note: 1. Rate for Handling, Fabrication and erection of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item. Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor.Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes 2" & above, shall also be part of this item. Contractor shall quote accordingly.	1900	Inch Dia Meter	800.00	15,20,000.00
123	Fabrication & Erection of Piping as per item no.110 (For Pipe Size Below 2 inch, Magnetic particle & Dye Penetration Test as per the requirement of specification)	50	Inch Dia Meter	650.00	32,500.00
124	Painting of Piping (Pipe, Fittings, Flanges, Valves, Equipments, etc.) as per item no. 110	1950	Inch Meter	300.00	5,85,000.00
125	Hydrostatic testing, cleaning / flushing, functional testing, de-pressurizing, dewatering & drying of Piping as per item no. 110 (for all size upto 12").	1950	Inch Meter	50.00	97,500.00
126	**INSTALLATION OF COMPANY SUPPLIED FIM (FML SKID AND PIG LAUNCHER/RECEIVER SYSTEM) AT DESPATCH TERMINAL AND RECEIVING TERMINAL**				
127	Installation of Company supplied Filtering, Metering and PRS Skid and Scrapper Launcher/ Receiver with accessories, at stations including all handling and installation works; as per drawings, specifications enclosed with the Contract and directions of Engineer-in-Charge. Cost of Transportation of above Free issue items, from Contractor's own stock-yard to Work site for station works, to be included in this SOR item. No separate payment will be applicable for the same.	1	LS	10,00,000.00	10,00,000.00
128	**CONTRACTOR SUPPLIED ITEMS:(Supply of Items as per attached PTS,GTS,Data Sheet,QAP and PMS)**				
129	**Station pipe -Seamless**				
130	1" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, PE, SEAMLESS	6	Meter	1,250.00	7,500.00
131	2" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	90	Meter	1,500.00	1,35,000.00
132	4" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	120	Meter	3,500.00	4,20,000.00
133	10" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	12	Meter	7,850.00	[illegible]200.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. JAIHIND PROJECTS LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
134	12" pipe, 7.1mm thk, ANSI B 36.10, API 5L X 70,HFERW	84	Meter	7,200.00	6,04,800.00
135	**Supply of fittings & Flanges**				
136	1 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 350 LF2,CL1, BW, ANSI B16.25	4	Nos	600.00	2,400.00
137	1" WNRF FLANGES, 6C1, SCH. 160 / 600#, WNRF, B-16.5, ASTM A350 LF2, CL1, BW-ANSI B16.25 RF	4	Nos	600.00	2,400.00
138	1", BLIND FLANGES, 6C1, 600#, RF, B-16.5, ASTM A350 LF2, CL1, RF	4	Nos	800.00	3,200.00
139	3/4" EQUAL TEES, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25,	2	Nos	650.00	1,300.00
140	3/4", CUP THREADED 6C1, 6000#, ANSI B16-11, ASTM A 350 LF2, CL1 , BW - ANSI B16.25, ANSI B1.20.1,	3	Nos	650.00	1,950.00
141	**WELDOLETS (MAINLINE x BRANCH SIZE)**				
142	4" x 1", WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	4	Nos	3,200.00	12,800.00
143	12" x 2" WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 7.1 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 694 F70	5	Nos	3,500.00	17,500.00
144	12" x 2", WELDOLETS (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 7.1 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	35	Nos	3,500.00	1,22,500.00
145	**GASKETS**				
146	GASKETS, 6C1, 600#, RF, ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 1"	12	Nos	350.00	4,200.00
147	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 2"	210	Nos	400.00	84,000.00
148	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 4"	30	Nos	800.00	24,000.00
149	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 10"	2	Nos	1,200.00	2,400.00
150	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 12"	44	Nos	1,500.00	66,000.00
151	**NIPPLES**				
152	NIPPLES, 6C1, Sch 160 /600#, ANSI B 36.10, ASTM A333 GR.6, BOTH ENDS PLAIN, SEAMLESS-LG=100mm, 3/4"	10	Nos	800.00	8,000.00
153	NIPPLES, 6C1, Sch 160 / 600#, ANSI B 36.11, ASTM A333 GR.7, ONE END THRD -MNPT SEAMLESS- LG=100mm, 3/4"	8	Nos	1,200.00	9,600.00
154	**Supply of following Valves as Per attached PTS,GTS,Data Sheet,QAP,PMS & MTO**				
155	1",BALL VALVE - FULL BORE (RF) (ABOVE GROUND),6C1	6	Nos	5,000.00	30,000.00
156	3/4", CHECK VALVE (RF) (AG), 6C1	2	Nos	4,000.00	8,000.00
157	**3/4",NEEDLE VALVE, 6C1**	5	Nos	5,000.00	25,000.00
158	Note (Applicable for all items of SOR item No 128 to 157): 1. Before procurement of any of the above materials Contractor will take prior approval from GAIL / PMC. 2. Payment will be made for actual quantity used.				
159	**Sub-Total Section B**				**49,21,750.00**
160	**SECTION-C [CIVIL / STRUCTURAL & ARCHITECTURAL]**				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. JAIHIND PROJECTS LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
161	**CIVIL , STRUCTURAL & ARCHITECTURAL**				
162	**Earthwork excavation in soil**				
163	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	2900	cum	212.00	6,14,800.00
164	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth beyond 1.5m and upto and inclusive of 3.0m including Removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	70	cum	235.00	16,450.00
165	**Earthwork excavation in soft rock**				
166	Earth work in EXCAVATION below ground level for all kinds of works in SOFT ROCK and HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as irected including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	255	cum	302.00	77,010.00
167	**Backfilling after execution of work**				
168	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps within a LEAD OF 100M,including re-excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/ mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	1150	cum	134.00	1,54,100.00
169	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps beyond a LEAD OF 100M AND UPTO & INCLUSIVE OF 500M including re- excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	490	cum	156.00	76,440.00
170	**Transporting & Disposing the SURPLUS EARTH AND DEBRIS**				
171	Transporting and disposing the SURPLUS EARTH AND DEBRIS including shrubs and vegetations from construction areas to areas ANYWHERE OUTSIDE THE PLANT BOUNDARY, including re-excavating the deposited soil excavated earlier, loading, transportation, unloading, laying at all depths and heights, stacking,levelling and dressing both the area (viz. from where the earth is transported and where it is deposited) to required levels and slopes complete with all lifts as directed. For carting on the basis of truck measurements (volume of truck reduced by 30% for voids). DISPOSAL AREAS OUTSIDE PLANT BOUNDARY TO BE ARRANGED BY THE CONTRACTOR. Royalty as applicable for disposal outside plant limits to be borne by the Contractor	1310	cum	123.00	1,61,130.00
172	**EARTH WORK FILLING BY EXCAVATION**				
173	EARTHWORK IN FILLING by excavating the earth from BORROW AREAS arranged by CONTRACTOR for all leads, transporting the earth from borrow area including cleaning & stripping the earth at borrow areas, breaking clods, loading, unloading and laying at all depths and heights in layers of thickness not exceeding 15 cms., watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% of the maximum laboratory dry density, ressing, trimming, levelling the top surface etc. in foundations, plinths, trenches etc. all complete.	9555	cum	504.00	48,15,720.00
174	**PLAIN & REINFORCED CEMENT CONCRETE: (REFER SPECIFICATION NO. (Z/02/0004)**				
	PLAIN CEMENT CONCRETE - PCC				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00
			Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. JAIHIND PROJECTS LIMITED

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176	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:4:8 (1 cement : 4 coarse sand (Zone-III) : 8 graded stone aggregate 40 mm nominal size)	160	cum	6,944.00	11,11,040.00
177	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:3:6 (1 cement : 3 coarse sand (Zone-III) : 6 graded stone aggregate 40 mm nominal size)	22	cum	7,728.00	1,70,016.00
178	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:2:4 (1 cement : 2 coarse sand (Zone-III) : 4 graded stone aggregate 20 mm nominal size)	150	cum	8,512.00	12,76,800.00
179	Providing and laying PLAIN CEMENT CONCRETE for all depths below and upto plinth level in foundations, drains, fillings, non-suspended floors, pavements & ramps or any other works etc. including shuttering, tamping, ramming, vibrating, curing, etc. all as specified in any shape, position, thickness and finishing the top surface rough or smooth as specified and directed all complete for concrete grade M20 with 20mm and down size graded crushed stone aggregates/Gravels. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR	26	cum	10,304.00	2,67,904.00
180	**RCC WORKS**				
181	**SUBSTRUCTURE**				
182	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUBSTRUCTURE INCLUDING CENTERING & SHUTTERING) e.g. foundations, raft, beams, pile caps, Retaining walls, counterforts, buttresses, pedestals, pipe sleepers, columns, suspended floors, staircases, landings, steps, brackets etc., including equipment/ machine foundations & pedestals viz. compressors, generators, etc. (including single pour concreting as specified on the drawing), applying cement wash on concrete surface (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering, etc., wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT)for all depths below and upto plinth level in any shape, position and thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	1220	cum	11,424.00	1,39,37,280.00
183	**SUPER STRUCTURE- EXCLUDING CONTROL ROOM BUILDING, GUARD ROOM & BOUNDARY WALL**				
184	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUPER STRUCTURE INCLUDING CENTERING & SHUTTERING in suspended floors, slabs, beams, columns, walls including counterforts, staircases, landings, steps, facias, fins, mouldings, gutters, shelves, window sills, canopies, lintels, girders, ducts, brackets, chajjas with drip moulds, pedestals, posts, struts, equipment/ machine foundations, ramps etc. (including single pour concreting as specified on the drawing), providing cement wash (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT) FOR ALL HEIGHTS UPTO & INCLUSIVE OF 20 m ABOVE PLINTH LEVEL in any shape, position, thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	70	cum	12,880.00	9,01,600.00
185	**CONTROL ROOM BUILDING (SUPERSTRUCTURE)**				
186	Construction of Control Room Building as per drawings and specification. Building work for all Superstructure works INCLUDING CENTERING & SHUTTERING , Reinforcement , masonry work, partition wall, Plastering & pointing, flooring, Floor finishes, Door & windows, rolling shutter, false ceiling, all finishes, painting, roof treatment complete in all respect etc.)	215	m2	19,040.00	40,93,600.00
187	**GUARD ROOM (SUPERSTRUCTURE)**				
188	Guard Room as per drawings and specification. Building work for all superstructure works including (Reinforcement, masonry work Plastering & pointing, flooring, Floor finishes, Door & windows, painting, roof treatment, all finishes, water supply and sanitary work complete in all respect etc.)	17	m2	19,040.00	3,23,680.00
189	**HYD Bars / MS Bars**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

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190	Supplying and placing in position HIGH YIELD STRENGTH DEFORMED STEEL BARS REINFORCEMENT of Grade Fe500D TMT conforming to IS:1786, for RCC work (excluding control room building & Guard room & boundary wall superstructure) including transporting the Steel, straightening, cleaning, decoiling, cutting, bending to required shapes and lengths as per details, binding with 18 SWG black soft annealed binding wire at every intersection, supplying and placing with proper cover blocks, supports, chairs, overlaps, welding, spacers, fanhooks etc. for all heights and depths etc. all complete as directed. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE	136	MT	90,000.00	1,22,40,000.00
191	**BOUNDARY WALL (SUPERSTRUCTURE)**				
192	compound wall (Superstructure)with RCC columns, beam, coping and Brick masonry (3.0m high) with an additional 0.6m high barbed wire & concertina coil (dia. 600mm) overhead on 'Y' shape structural steel frame. (SUPERSTRUCTURE) works included (masonry work, Plastering ,painting, CENTERING & SHUTTERING complete in all respect etc.)with gate and supplying, fixing and tensioning in position 2.5mm(12 gauge), 2 ply, 4 points, GI Barbed wire designation A-1 conforming to IS:278 in horizontal rows and cross diagonals for compound wall "Y" shaped overhang etc. with necessary GI staples, clips and pins, GI straining bolts and binding wire with all labour and materials etc. complete as per drawings, specifications and directions of Engineer-in-Charge.(The barbed wire shall be measured in linear length of the barbed wire actually fixed) Supplying, fabricating and fixing in position structural steel line posts, straining posts, struts for 'Y' shaped overhang etc. conforming to IS:2062 over brick/stone Masonry/ RCC compound walls/ columns, cutting to required size as per drawings and specifications, welding where necessary, embedding in position, holding to correct level and line, any auxiliary structure for dummy supports, drilling holes and painting as per painting specification attached with tender, cutting brick/rubble/concrete surfaces if necessary, grouting with M20 grade concrete including cost of grout with all labour and material etc. complete as per drawings, specifications and directions of Engineer-in-Charge.(All materials including cement shall be supplied by contractor).	285	RM	8,960.00	25,53,600.00
193	**STRUCTURAL STEEL WORKS (REFER TE SPECIFICATION)**				
194	Supplying, fabricating and erecting of structural steel and applying COATING (Post-erection/ Field) of approved quality and shade as per TE Specification or Job Specifications, wherever applicable) over the coat of shop primer already applied, including storage, surface preparation, degreasing, cleaning, drying, providing necessary arrangement for access, testing etc. including touching up of shop for steel structures (Including Wicket Gate, Main Gate and emergency gate, excluding ladders, spiral stairways & hand rails) at all location & levels, all complete as specified, for UNIT (INLAND) areas considering environment classification as INDUSTRIAL. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE. (Unit rate based on Structural steel weight)	19.5	MT	95,000.00	18,52,500.00
195	MISCELLANEOUS STEEL WORKS (REFER TE - SPECIFICATIONS)				
196	**MS Chequered Plates**				
197	Supplying, fabricating and erecting in position at all levels and locations bolted, screwed and/or welded M.S. CHEQUERED PLATES of any thickness in walkways, platforms, staircases or any other place as directed, etc. cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing, welding, preparation and submission of fabrication drawings and preparing the surfaces for painting and applying shop primer as per TE Specification after fabrication and return of unused/ scrap/ unserviceable chequered plates to Owner's store and material reconciliation etc. all complete as specified and directed	1.5	MT	95,200.00	1,42,800.00
198	**Anchor Bolts**				
199	Supplying, fabricating, fixing and keeping in position at all levels and locations THREADED ANCHOR BOLTS of all diameters and nomenclature including nuts, washers, anchor plates, pipe sleeves etc. in foundations, columns, pedestals, slabs, beams, walls etc. or any other place as directed including handling & transporting, straightening if required, turning from relevant size M.S. rounds to required diameter, threading, welding, providing necessary templates and auxiliary dummy structures, if any, necessary tying and welding with reinforcement, adjustment of shuttering & reinforcement/any other fixture, greasing exposed metal surfaces, covering bolts and packing the sleeves with jute cloth etc. all complete as specified and directed.(SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1	MT	1,34,400.00	1,34,400.00
200	**MS Metal Inserts**				
201	Supplying, transporting, storing, fabricating and fixing in position M.S. METAL INSERT (with lugs) of any shape made out of flats, plates, rolled sections, pipes etc. providing necessary templates, staging, cutting,straightening, if required, bolting, welding as required and embedding in position on both Plain and Reinforced Cement concrete members inclusive of adjusting shuttering & reinforcement/ any other fixture, welding where necessary, tying and holding to correct level, line and position, any auxiliary dummy structures to support the heavy inserts, painting exposed surfaces with a coat of primer as per TE Specification all complete for all depths and heights as specified and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	0.55	MT	95,200.00	52,360.00
202	**MS Grating**				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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203	Supplying, fabricating and erecting in position at all levels and locations ELECTROFORGED GALVANISED GRATING (purchased from approved manufacturer by the Contractor) conforming to TE STANDARD (in walkways, platforms, stair treads etc.) including cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing with manufacturer's supplied galvanised clamps, preparation and submission of fabrication drawings, all complete as specified and directed (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.7	MT	1,40,000.00	2,38,000.00
204	**Hand Railing 1000mm**				
205	Supplying, fabricating and fixing in position at all locations 1000mm high INCLINED HAND RAILING (for staircases) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade M.S. Tubes conforming to IS:1239 including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE SPEC. preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	RM	2,520.00	25,200.00
206	Supplying, fabricating and fixing in position at all locations 1000mm high HORIZONTAL HAND RAILING (for platforms, walkways, etc. or any other location as directed) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade MS Tubes conforming to IS:1239 and 100x5 MS Toe Plate confirming to IS:2062 (Grade A/B), including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE standard drawing & specification, preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	2,856.00	28,560.00
207	**CHAIN LINK FENCING**				
208	Supplying, fabricating and fixing G.I. chain link fencing with 3.5mm dia. wire, 50x50mm diamond mesh chain link fence fabric conforming to IS:2721 fixed to steel/RCC posts/struts above ground level, including supply of chain link fencing fabric in 1.9 metre wide rolls, stretcher bars, staples, etc. required for fixing the fencing, fixing of chain link fencing between straining posts, fixing of bottom of fencing in cement concrete 1:2:4 blocks and painting with synthetic enamel etc. , including supply and fixing line wires, complete as per drawings, specifications and directions of Engineer -in-Charge (All materials shall be supplied by Contractor). (The measurement of chain link fencing shall be on linear basis for 1.9 m wide fencing fabric)	10	M	6,160.00	61,600.00
209	**ROADS & FLEXIBLE PAVEMENT (UPTO WBM LAYER)**				
210	Preparation and consolidation of sub-grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth outside the property boundary in the un-disputed areas as directed by Engineer-In-Charge.	2400	M2	3,920.00	94,08,000.00
211	Supplying and laying of stone aggregate of 63mm down to 45mm size for WBM layer Base Course, tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 75mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding material of plasticity index upto 6%, including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts etc. complete as per drawings, specifications and directions of Engineer-in-Charge	7200	M2	3,584.00	2,58,04,800.00
212	**CONCRETE PAVEMENTS**				
213	Construction of dry lean cement concrete (DLC) sub base over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in- charge.	240	cum	11,424.00	27,41,760.00
214	Providing and laying Reinforced Cement Concrete with 20mm and down size graded crushed stone aggregates in flooring, pavements etc. including leaving pockets, if necessary, making recess/drains, laying in alternate panels, etc. for all depths including shuttering, tamping, curing, providing dowel bars with sleeves/tie bars etc where ever required at site. as specified in any shape, thickness, position and finishing the top surface smooth etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For RCC of M-30 grade concrete (all materials including cement but excluding cost of providing & fixing reinforcement and joint sealing shall be supplied by the contractor).	600	cum	11,424.00	68,54,400.00
215	Providing 20mm wide Expansion Joints in pavement slabs as per general technical specification including cleaning the joints of all loose material, filling with 20mm thick impregnated fibre boards for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved Joint Sealing Compound as per IS:1834 Type-B etc. all complete as per drawings, specifications and directions of Engineer-in-Charge	1100	M	448.00	4,92,800.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. JAIHIND PROJECTS LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
216	Sealing joint around pedestal and column etc. 20mm wide x 150 mm deep including filling with 20mm thick impregnated fire board for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved joint sealing compound as per IS:1834 Type-B.	300	M	448.00	1,34,400.00
217	**RCC PIPE CULVERTS & ELECTRICAL ROAD CROSSINGS ETC. (as per drawing & TE specification)**				
218	Supplying and laying in position RCC pipes with collars conforming to IS:458 for pipe culverts, cable crossings etc. including cutting the pipe if necessary, lowering, laying in position to proper levels, slopes etc. caulking the joints with spun yarn soaked in neat cement slurry and finishing with cement mortar 1:2 (1 cement : 2 sand) curing etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For following Class and Internal PIPE DIA (MM). (Dia (internal) - 500 mm, Pipe Class - NP3)	20	M	1,792.00	35,840.00
219	**U/G AND A/G G.I. PIPELINE SYSTEM - WATER SERVICES tender specification**				
220	Supplying and laying mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ ASTM A105 (Galvanized) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, earthwork in excavation for trenches, valve pits, etc. in all types of soil excluding soft and hard rock including laying of pipes in trenches, joining the pipes and fittings with threaded connections, hydrostatic testing of the piping, backfilling the trenches with selected/approved earth fill material, cutting of roads wherever required, making good the road surface after laying, disposal of surplus earth within a lead of 500 m, etc. including supply of necessary fittings etc. complete as per specifications, drawings and directions of Engineer-in-Charge. For following Nom.Size in mm. (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	448.00	4,480.00
221	Supplying and laying above ground mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ASTM A 105 (GALVANISED) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, including laying of pipes on sleeper, walls, including erecting piping on columns, etc. for pump station, overhead tanks, etc. including joining the pipes and fittings with threaded connections, hydrostatic testing of the piping including supply of necessary fittings etc & pipe supports. complete as per specifications, drawings and instructions of Cement Supplied by contractor (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	504.00	5,040.00
222	**MISC. CIVIL AND STRUCTURAL WORKS FOR U/G PIPING AND OTHER CIVIL WORKS**				
223	Providing and laying brick masonry with locally available bricks of specified class (Brick of class lower than specified shall not be accepted) in cement mortar 1:4 (1 cement : 4 Coarse sand) in one or more brick thickness and in any shape in foundation and plinth for valve pits, drains, circular/square manholes, wing walls, etc. including providing recesses, openings, etc. including curing, finishing the joints flush below ground level and raking out joints in plinth with all labour and material, etc. complete as per drawings, specifications and direction of Engineering-Charge. For following Brick Class. All materials including cement supplied by the Contractor and. (Brick Class - 5)	418	cum	952.00	3,97,936.00
224	Providing 13mm thick average cement plaster in cement mortar 1:3 (1 cement: 3 sand) on brick walls/stone masonry/pitching or on concrete surfaces for manholes, valves pits, culverts, wing walls, etc. including cleaning and preparation of the surface, scaffolding, curing etc. for all depths and heights complete as per drawings specifications and direction of Engineer-in-Charge. All materials including cement supplied by the Contractor.	775	M2	285.00	2,20,875.00
225	**UNDERGROUND SEWER SYSTEM - RCC PIPES**				
226	Supplying and laying underground R.C.C. pipes sewers with socket and spigot ends conforming to IS:458 of approved make, to proper grade and alignment, including earthwork in excavation in all types of soil except soft and hard rock for pipe trenches, etc. including dewatering, shoring and shuttering if necessary, dressing of sides, leveling, grading and ramming of bottoms, cutting the R.C.C. pipes to required lengths, lowering the pipes, jointing, including connecting the pipes to manholes and grouting the pipe body with manhole wall using cement mortar 1:2 (1 cement : 2 sand), testing, draining of water and cleaning of pipe after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness , watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, including cutting of roads wherever required and making good the same, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit etc. complete for all depths as per drawings, specifications and instructions of Engineer-in-Charge.(All material shall be supplied by contractor) For following Pipe size (mm) and Class(The following pipe sizes are all internal diameter of the pipes)				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. JAIHIND PROJECTS LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
227	(Dia (Internal) - 100 mm, Piping Material Class - NP2)	15	M	896.00	13,440.00
228	(Dia (Internal) - 150 mm, Piping Material Class - NP1)	15	M	1,120.00	16,800.00
229	(Dia (Internal) - 450 mm, Piping Material Class - NP2)	70	M	1,344.00	94,080.00
230	**UNDERGROUND SEWER SYSTEM-HDPE PIPES**				
231	UNDERGROUND SEWER SYSTEM-HDPE PIPES :- Supplying and laying HDPE pipes conforming to IS:4984 of approved make to proper grade and alignment, including earthwork in excavation for trenches etc. in all types of soil except soft and hard rock including dewatering till completion of subsequent works, shoring and strutting, if necessary, dressing the sides, leveling, grading and ramming the bottom, jointing the pipes using hot plates as per manufacturer's recommendation, lowering, providing and laying 1:5:10 (1 cement : 5 sand : 10 aggregate) plain cement concrete of minimum 100mm thickness on bottom and side of pipe as directed, connecting the pipes to manholes and grouting the pipes to manhole/valve chamber walls, including supplying and fixing the specials and fittings, such as bends, reducers, tees, elbows, caps etc. conforming to IS:8008 or fabricated from pipes as per specification, supplying and fixing of flanges, fixing of online valves, including fixing of bolts, nuts and gaskets etc. as per specifications, testing, draining of water and cleaning of pipes after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness, watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit, cutting of road wherever required, making good the same etc. complete for all depths as per drawings, specification and instruction of Engineer-in- Charge. For the following nominal diameter (mm) Pressure Rating(Kg/Cm2). (Dia (Internal) - 80 mm, Pressure Rating - 2.5 Kg/sqcm)	50	RM	280.00	14,000.00
232	**PLUMBING AND BUILDING DRAINAGE**				
233	Supplying and fixing approved quality Cast Iron soil/waste pipe conforming to IS:1729 below ground with necessary specials, bends such as Y-junction, T- junction (both single and double) including plugs, shoes, cowls, jointing with lead caulked joints and testing, cutting in floors, earth work in excavation, encasing the pipe in 50mm THK, PCC M20, backfilling and removal of surplus earth upto a lead of 50M etc. complete as per drawings, specifications and directions of Engineer-in-Complete				
234	100mm dia (All materials including cement supplied by contractor)	10	RM	280.00	2,800.00
235	80mm dia (All materials including cement supplied by contractor)	10	RM	280.00	2,800.00
236	Supplying and fixing gun metal globe valve conforming to IS:778, complete as per specifications and directions of Engineer-in-Charge.				
237	Dia - 50 mm	2	Nos	560.00	1,120.00
238	Constructing of brick masonry valve chamber in 1:4 Cement mortar(1 cement: 4 sand) with CI frame & cover fixed on M-20 grade cement concrete , necessary excavation, M-20 grade foundation concrete, 13mm thick 1:3 cement plaster on inside & all exposed surfaces, backfilling, removal of surplus earth for all leads within the complex limit etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge. For following Valve size and Brick Class (All materials including Cement supplied by contractor)				
239	Dia - 50 mm, Brick Class - 5)	2	EACH	1,96,000.00	3,92,000.00
240	Providing and fixing approved stone ware 100mmx100mm dia. gully trap as per tender specification, including grating with CI frame and cover 300mmx300mm including brick masonry (brick class shall be as mentioned below) chamber in 1:4 cement mortar(1 cement: 4 sand) on M-20 grade cement concrete foundation, plastered inside and outside surfaces with 1:3 cement mortar (1 cement: 3 sand) with 13mm average thickness including providing and fixing light duty CI frame and cover, painting CI frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat, earth work in excavation, backfilling, removal of surplus earth, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry etc. all complete as per drawings, specifications and directions of Engineer-in-Charge				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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241	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	6,160.00	12,320.00
242	Construction as per(Design basis & general technical specification) of brick masonry (brick class shall be as mentioned below) inspection chambers/manholes of 750mmx750mm internal size 1000mm deep(Max.) in cement mortar 1:4 (1 cement: 4 sand) with CI frame and cover 500mm clear dia, (circular Medium duty of grade MD-10) conforming to IS:1726 fixed on RCC slab of M-30 grade, necessary excavation, supplying, fixing 4 Nos. 16mm dia M.S. rungs, M-20 grade foundation concrete 1:3 cement mortar(1 cement: 3 sand) plastering of 13mm average thickness for inside & 16mm avg. thickness for outside exposed surfaces, backfilling, disposal of surplus earth upto a lead of 100M, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry, painting the C.I.frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat etc. all complete as per drawings, specifications and directions of Engineer-in-Charge.				
243	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	56,000.00	1,12,000.00
244	Construction, supplying, installation, testing and commissioning of septic tank as per standards and IS:2470 Part-I , with all necessary accessories like inlet, outlet vent pipes, manhole covers, rungs etc. including earthwork in excavation in all type of soil except soft and hard rock, backfilling and disposal of surplus earth for all leads etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge				
245	All material including cement supplied by contractor for (Users - 10 NOS)	1	Nos	50,400.00	50,400.00
246	**MISCELLANEOUS ITEMS**				
247	Supplying and fixing in position entrance gate in complex boundary wall fencing manufactured out of steel frame work and square MS bars of 20 mm at 100 c/c and horizontal name plate band at lock rail level suitably hinged with box type steel post embedded in cement concrete i.e. providing the tension bar for smooth operation and locking arrangement etc. complete as per tender specification, including painting with two coats of anti-corrosive paint and two coats of approved aluminium/synthetic enamel paint etc. complete as per drawings, specifications and directions of Engineer-in-Charge.				
248	4.0M clear opening width of gate in two panels.	3	Nos	1,50,000.00	4,50,000.00
249	Supplying & Laying interlocking Paver Blocks for roads, footpaths and any other place etc. including providing 50 mm thick sand filling below Paver Blocks including compaction of sand layer, filling the joints by dry sand, providing precast kerb stone of PCC M-20 at edges, including preparation of compacted sub-grade etc. all complete as per drawing, standard and directions of Engineer-in-Charge. (All material including cement supplied by contractor, paver blocks shall confirm to IS: 15658. cloour and shape of paver block shall be as per owner requirements for following thickness of paver blocks				
250	(Thickness - 60 mm)	385	M2	1,400.00	5,39,000.00
251	Supply and installation on terrace, high density polyethylene drinking water circular tank as per IS:12701 and ISI marked including supply and installation of all fittings, cover with suitable locking arrangement, float valve, making necessary holes for inlet, outlet and overflow connection and vent pipe etc. and the base supports for tank including supply of all necessary material all complete as per specifications and directions of Engineer-in-charge. (Sintex or equivalent having valid ISI license) for following capacities.				
252	capacity - 500 litre	2	Nos	13,440.00	26,880.00
253	Supplying, installation, testing and commissioning of Upflow Anaerobic Filter with bleaching tank as per TE Std. Drawing with all necessary accessories like, Upstream inlet CI piping from septic tank, Downstream outlet RCC NP2 class piping up to surface storm water drains, CI pipes for filter chamber, CI valve, RCC pre-cast pit covers, steps, perforated pre-cast slabs etc., inlet chamber, Filter chamber, deluding chamber including earthwork in excavation in all type of soil including soft rock, backfilling with murrum or approved soil arranged by the contractor, disposal of surplus earth etc. complete as per drawings, specification and direction of Engineering-Charge (All materials including cement shall be supplied by the contractor, Brick Class lower than 5.0 shall not be used). - Upto 10 Nos. user	1	Nos	39,200.00	39,200.00
254	**DEMOLISHING AND DISMANTLING**				
255	**Brickwork**				

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256	Demolishing BRICKWORK (taking all necessary safety precautions) for all depths below plinth level including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	280.00	2,800.00
257	Demolishing BRICKWORK (taking all necessary safety precautions) for all heights above plinth level including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	392.00	3,920.00
258	**RCC**				
259	Demolishing RCC WORK (taking all necessary safety precautions) for all depths below plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	616.00	6,160.00
260	Demolishing RCC WORK (taking all necessary safety precautions) for all heights above plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	728.00	7,280.00
261	**PCC**				
262	Demolishing PLAIN CEMENT CONCRETE work (taking all necessary safety precautions) for all depths below plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc. disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation and backfilling shall be paid separately under relevant items)	10	cum	448.00	4,480.00
263	**MISCELLANEOUS ITEMS (REFER TE SPECIFICATION)**				
264	Sand Filling				
265	Supplying and filling approved SAND of specified quality under floors, in foundations, plinths, tank foundations etc. for all depths and heights including cost of sand,royalties,transportation to site for all leads and lifts, including loading, unloading, spreading in layers of loose thickness not exceeding 150 mm,watering,ramming,compacting with mechanical compactors and/or other equipment to the specified levels to achieve 85% relative density as per IS:2720 Part XIV,including preparation of subgrade to the required slope, providing testing apparatus and testing the degree of consolidation all complete as per drawings, specifications and direction of Engineer-in-charge. The rates shall be inclusive of the cost of all labour,material,equipments etc. all complete .	120	cum	1,512.00	1,81,440.00
266	**SAND GRAVEL MIX**				
267	Supplying and filling sand gravel mix (1:1) with approved aggregate below road, RCC pavement, manholes, pits, foundations, bedding of UG piping etc. in layers of 150 mm loose thickness (maximum) including watering, ramming, rolling, compacting to achieve 85% relative density as per IS 2720 Part-XIV, quarrying, royalties, transportation, handling, etc. all complete as per drawings, specifications and directions of Engineer-in- Charge. (The rate shall be inclusive of the cost of all labour, material, equipment etc. all complete)	122	cum	963.00	1,17,486.00
268	**GROUTING WITH NON-SHRINKABLE COMPOUND**				
269	Providing and laying manually or by pumping at all positions a ready mix non-shrink cementitious grout of compressive strength specified below for specified works e.g. pipe support, base grouting of rotating equipment and other installation complete in all respects as per scope of work, detailed construction drawings , technical specifications and directions of the Engineer-In-Charge.				
270	Having compressive strength of 30 N/mm2 , Per bag of 25 Kg	100	Bags	1,030.00	1,03,000.00
271	Having compressive strength 45 N/mm2 , Per bag of 25 Kg	20	Bags	1,030.00	20,600.00

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272	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains, SS trench of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.	10	SQM	896.00	8,960.00
273	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, leve and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	17	M3	896.00	15,232.00
274	Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M-25, of size 1000x450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos. cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of the Engineer-In-Charge.	630	EACH	1,064.00	6,70,320.00
275	**Borewell and recharge well**				
276	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job all complete as per drawing, direction of Engineer -in-charge, in all types of soil :	130	M	3,360.00	4,36,800.00
277	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge.	130	M	504.00	65,520.00
278	Providing and fixing Bail plug/ Bottom plug of required diameter to the bottom of pipe assembly of tubewell as per IS:2800 (Part-I). :150mm dia	3	EACH	2,464.00	7,392.00
279	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	1,400.00	7,000.00
280	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	1,030.00	5,150.00
281	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	1,400.00	7,000.00
282	Gravel packing in tubewell construction in accordance with IS:4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of the Engineer-In-Charge.	3	M3	1,254.00	3,762.00
283	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS:4270, of reputed & approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size dia having minimum wall thickness 5.00 mm	5	M	1,400.00	7,000.00
284	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	60	M	1,792.00	1,07,520.00
285	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/ 3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS:8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	25	M	1,624.00	40,600.00
286	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of 150 mm diameter	1	Nos	336.00	336.00
287	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS:2800 (Part-I), including necessary bolts & nuts of required size complete 150 mm diameter.	1	Nos	336.00	336.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. JAIHIND PROJECTS LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
288	Supply, Installation and commissioning of 1.5HP Borwell Submersible Pump	1	EACH	16,800.00	16,800.00
289	Supply and Installation of 3Cx10Sqmm Copper Flat Cable	200	M	252.00	50,400.00
290	**LANDSCAPING**				
291	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment).	810	M3	918.00	7,43,580.00
292	Fine dressing of the ground.	2700	M2	106.00	2,86,200.00
293	Providing & laying Selection no. 1 grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden and than rolling the surface with light roller make the surface smoothen and light watering the same maintenance for 30 days or more till the grass establish properly,as per direction of officer in charge	2700	M2	106.00	2,86,200.00
294	Conducting topographical ground/land survey in the specified area as shown in the tender drawings by conventional/GPS or any other standard method, covering details of physical features like Rivers, Nallahs, Lakes, Ponds, wells, pits, Forest, Trees, Roads, culverts, transmission lines, telegraph/ telephone and electric poles, underground or any other services, cross drainage works including cross sectional details of nallah etc. including establishing high flood level with source of information, identification of any monument, historical structure, wild life sanctuary in the vicinity, storm water disposal point with levels, cross-section details of nallah, recording spot levels, top level of nearest state highway or National Highway, including providing in tabulation girth wise no. of trees etc as specified, plotting and developing topographical contour maps, showing true north including establishing survey reference stations, key plan etc. including all equipment's, instruments, personnel's, clearing of bushes as per requirement for intervisibility to carry out survey work etc. , complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of drawings/map and supply of electronic files. Note: Survey work shall be carried out by survey agency approved by Contractor and sample spot witness of levels cordinates by PMC, and shall be submitted to PMC/Owner for review.Survey drawing will be provided in A0 size with clear visibility of all the spots/levels/ contoure and Bench marks. Permanaet bench mark will be stabished at site in a 450x450 mm size 600mm high bick masonry piller.	6950	M2	156.00	10,84,200.00
295	**GEO TECHNICAL INVESTIGATION (Z/02/0022)**				
296	Conducting soil investigation with boring including all field tests and laboratory tests, mobilization and demobilization of equipments & personnel etc. for soil investigation for each borehole location. complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of Reports & recommendations and supply of electronic files.	5	Nos	1,34,400.00	6,72,000.00
297	**ANTI-TERMITE TREATMENT**				
298	Supplying chemical emulsion in sealed containers including delivery as specified in the Technical Specifications.				
299	**Chlorpyriphos/ Lindane emulsifiable concentrate of 20%**	200	LITRE	918.00	1,83,600.00
300	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
301	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc. as per Techinal specifications and direction of engineering in charge: With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	80	METRE	504.00	40,320.00
302	Treatment of soil under floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the floor:				
303	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	250	SQM	358.00	89,500.00
304	Supply and installation 60mm dia GI pipe for column support of gate	15	M	224.00	3,360.00
305	Supply and installation 100mm dia MS pipe	15	M	336.00	)40.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. JAIHIND PROJECTS LIMITED

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306	Supply and installation 50mm dia MS pipe	15	M	448.00	6,720.00
307	Supply and installation of U-PVC pipes (working pressure 4 kg / cm²) Single socketed pipe 75 mm dia for weep holes	300	M	224.00	67,200.00
308	**Sub-Total Section C**				**9,85,58,975.00**
309	**SECTION-D [CATHODIC PROTECTION WORKS]**				
310	**Cathodic Protection system**				
311	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning & Monitoring of the temporary cathodic protection [TCP] system using galvanic anodes to protect the external surface of the pipeline against soil-side corrosion for minimum 2 year or till commissioning of permanent CP system whichever is later . All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard drawings and vendor list as attached with this tender and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	40,00,000.00	40,00,000.00
312	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning of permanent cathodic protection system for 40 years. The scope of work also includes post commssoning surveys and repair of coating/ rectification of cathodic protection system based on the post commissioning surveys. In additon to the same, AC Interference study on the pipelines to be performed and mitigation measures takes to the satisfaction of Owner/ CONSULTANT. All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard and vendor list attached and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	46,50,000.00	46,50,000.00
313	**Sub-Total Section D**				**86,50,000.00**
314	**SECTION-E [ELECTRICAL WORKS]**				
315	**ELECTRICAL**				
316	**SWITCH BOARDS / UPS SYSTEM/ PANEL**				
317	Supply , Installation, testing and commissioning of LT Switch-boards, AC UPS system with UPS Distribution board & Ni-Cd Battery banks , distribution boards, cubicles with electrical equipment, misc. electrical panels etc., including transportation from store/yard to site at the place of installation, unpacking, assembly, including mounting and wiring of loose parts supplied by equipment vendor, interconnection of shipping sections and requisite inter-panel wiring between shipping sections, including supply of all wiring materials, installation on foundations or fixing to wall or steel structures, aligning, levelling, grouting, including all labour and materials, as per approved drawings, specifications of this tender and directions of Engineer-in-Charge.				
318	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted MEDB	2	Nos	7,15,000.00	14,30,000.00
319	Supply , erection , termination , earthing and commissioning of wall mounted OLDB as per single line diagram of DT stations	1	Nos	95,150.00	95,150.00
320	Supply , erection , termination , earthing and commissioning of wall mounted ILDB as per Single line diagram of DT stations	1	Nos	86,350.00	86,350.00
321	Supply , erection , termination, earthing and commissioning of wall mounted SSDB as per Single line diagram of DT stations	1	Nos	86,350.00	86,350.00
322	Supply , erection , termination , earthing and commissioning of wall mounted AC DB as per Single line diagram of DT stations	1	Nos	75,350.00	75,350.00
323	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 6 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of DT stations	1	SET	15,00,000.00	15,00,000.00
324	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for DT stations.	1	SET	35,00,000.00	35,00,000.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. JAIHIND PROJECTS LIMITED

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325	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 1 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of RT stations	1	SET	5,00,000.00	5,00,000.00
326	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for RT stations.	1	SET	15,00,000.00	15,00,000.00
327	Supply , erection , and commissioning of 415 V SFU as per Single line diagram of DT stations including liasioning with SEB as per Tender specification and direction of Engineer- In charge.	1	Nos	79,750.00	79,750.00
328	**POWER AND CONTROL CABLE**				
329	Supply , laying , termination , erection and testing of 1.1 KV Power and control FRLS PVC Outersheath, XLPE insulated, armored Cables . Outdoor cable will be laid in buried cable trench and in Indoor cable will be laid in Cable trench by provision of Cable tray and supports inside the trench as per PTS - Electrical package P.017110 G 11077 E002				
330	3.5C x 95 sqmm AL FRLS XLPE	300	M	1,127.50	3,38,250.00
331	3.5C x 70 sqmm AL FRLS XLPE	100	M	907.50	90,750.00
332	3.5C x 50 sqmm AL FRLS XLPE	50	M	715.00	35,750.00
333	3.5C x 25 sqmm AL FRLS XLPE	100	M	**577.50**	57,750.00
334	4C x 16 sqmm CU FRLS XLPE	100	M	1,512.50	1,51,250.00
335	3C x 2.5 sqmm CU FRLS XLPE	170	M	259.60	44,132.00
336	3C x 6 sqmm CU FRLS XLPE	250	M	665.50	1,66,375.00
337	4C x 6 sqmm CU FRLS XLPE	350	M	676.50	2,36,775.00
338	2C x 6 sq.mm CU FRLS XLPE	100	M	621.50	62,150.00
339	2.5 sqmm Cu. Wire	1800	M	56.10	1,00,980.00
340	6 sqmm Cu. Wire	600	M	122.10	73,260.00
341	**Earthing & Lightning**				
342	Supply , Installation , testing and comissioning of GI Earth electrodes & Cu plate type earth pit complete with earth pit as per IS 3043, PTS-Electrical package and all necessary material including exacavation of earth pit , filling with charcol and salt , back filling, brick work , connections including all labour and materials as approved drawing and specification of this tender and direction of Engineer-In charge.				
343	**GI Earth Electrodes**				
344	65mm dia x 3000 mm L GI pipe electrode type Earth pit	15	Nos	23,650.00	3,54,750.00
345	**Cu plate Earth Electrode**				

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. JAIHIND PROJECTS LIMITED

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346	600x600x3mm Cu plate type Earth pit	8	Nos	36,135.00	2,89,080.00
347	**Earth strip and wire**				
348	50x 6 mm GI Flat strip	850	M	357.50	3,03,875.00
349	25 x 6 mm Cu Flat strip	50	M	907.50	45,375.00
350	2.5 Sqmm Cu wire	250	M	63.80	15,950.00
351	25 x 6 mm GI Flat strip	200	M	203.50	40,700.00
352	10 Sq.mm earthing cable	250	M	214.50	53,625.00
353	GI Earth Bus 50x 6 Sq.mm with all installation assesories	3	Nos	544.50	1,633.50
354	Cu. Earth Bus 50x 6 Sq.mm with all installation assesories (in control room)	4	Nos	1,039.50	4,158.00
355	25x3 mm GI Flat for Lightning as well as down conductors for DT station as per overall earthing layout and GGNG-E-20713-3007	80	M	159.50	12,760.00
356	Other lightning assesories like 20mm dia copper rod, hollosphere ,200x200x6mm ms plate ,anchor/fastner ,test links for DT station as per overall earthing layout and GGNG-E-20713-3007	1	LOT	86,350.00	86,350.00
357	**OUTDOOR Lighting**				
358	Supply , erection , Testing & commissioning of Outdoor area lighting system including with supply of flameproof / weather proof light fixture , pole , junction box and earthing including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender & Overall outdoor lighting layout of DT & RT station and directions of Engineer- In charge.				
359	100W FLP LED Fixture & FLP Junction box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	4	Nos	46,750.00	1,87,000.00
360	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	2	Nos	3,02,500.00	6,05,000.00
361	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in RT Stations.	7	Nos	3,02,500.00	21,17,500.00
362	1x160W FLOOD LED Fixture with weather proof junction box & 9 mtr high pole with all assesories for open area	9	Nos	63,800.00	5,74,200.00
363	1x70 W Solar type Street LED Fixture with weather proof junction box, VRLA Battery (72 hrs backup time) & 9 mtr high pole for street lighting	6	Nos	1,37,500.00	8,25,000.00
364	1x27 W Post Top Lantran LED Fixture for Gate with weather proof junction box for Gate lamp	2	Nos	16,335.00	32,670.00
365	1x36 W LED industrial fixture suitable to building parapet /wall with all assesories like weather proof junction box/clamp/reducer/	2	Nos	8,745.00	17,490.00
366	**INDOOR Lighting**				
367	Supply, erection, Testing & commissioning of Indoor building area lighting system including with supply of light fixture, point wiring including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender and directions of Engineer- In charge.				

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368	2x20 W LED recessed decorative fixture for control room	5	Nos	7,095.00	35,475.00
369	2x20W LED Industrial Fixture for Electrical room	2	Nos	8,745.00	17,490.00
370	1x40W LED Flameproof Fixture for Battery room	1	Nos	13,750.00	13,750.00
371	2x18W LED Industrial Fixture for Varanda/Toilet/ water cooler area/ Guard room	6	Nos	7,177.50	43,065.00
372	1x36W LED Industrial Fixture	4	Nos	8,745.00	34,980.00
373	2x20 W LED recessed decorative fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) control room.	2	Nos	16,115.00	32,230.00
374	2x20W LED Industrial Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Electrical room	2	Nos	18,243.50	36,487.00
375	1x40W LED Flameproof Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Battery room	1	Nos	21,494.00	21,494.00
376	**Switch socket**				
377	Supply and Installation of single/ three phase Switch socket as per Indoor Illumination layout for DT & RT and PTS-Electrical Package and directions of Engineer-In Charge				
378	5/15A surface type switch socket (1 Ph)	7	Nos	550	3,850.00
379	5A flush type switch socket (1 Ph)	4	Nos	302.50	1,210.00
380	16A Switch socket (I Ph)	3	Nos	412.50	1,237.50
381	20A Switch socket for AC (1 Ph)	4	Nos	2,365.00	9,460.00
382	Flame proof Junction box for Exhaust fan in Battery room	2	Nos	1,155.00	2,310.00
383	32A Switch socket for welding receptacles (3 Ph)	1	Nos	3,109.70	3,109.70
384	Modular switch board	12	Nos	467.50	5,610.00
385	**FANS and Exhaust FAN**				
386	Supply ,Installation and testing of Ceiling Fan and Exhaust fan with louvers including all labours and materials as per Indoor Illumination layout for DT and PTS-Electrical Package and directions of Engineer-In Charge				
387	Ceiling Fan 230V AC 1200 mm sweep	3	Nos	4,284.50	12,853.50
388	450 mm FLP Exhaust Fan for Battery room	2	Nos	15,950.00	31,900.00
389	200 mm Exhaust Fan for Toilet	1	Nos	3,575.00	3,575.00

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390	300 mm Exhaust Fan for Electrical room/ CO2 room	3	Nos	4,675.00	14,025.00
391	**Air conditioning unit**				
392	Supply ,Installation and testing of Five star 1.5 Ton Split AC with outdoor compressor unit including all labours and materials as per Typical Indoor Illumination layout for DT and directions of Engineer-In Charge				
393	Split Air condition Five star 1.5 Ton	4	Nos	96,250.00	3,85,000.00
394	**Hardware and other Accessories**				
395	Supply and Installation of Hardware and other accessories including all labours and materials as per Tender specification PTS-Electrical Package P.017110 G 11077 E002 and directions of Engineer-In Charge				
396	Rubber mat	15	M	2,035.00	30,525.00
397	Rubber hand gloves	1	PAIR	2,794.00	2,794.00
398	Warning Marker	1	Nos	3,575.00	3,575.00
399	PVC Conduit with bend ,tee and other required assesories	1	LOT	75,350.00	75,350.00
400	CAUTION Board & Sock treatment chart	1	Nos	1,045.00	1,045.00
401	Cable route marker as per Standard drawing TE-IN-STD-G-0327	1	LS	51,150.00	51,150.00
402	Fire extingusher and SAND Bucket with Stand	1	SET	5,445.00	5,445.00
403	Ladder type Cable tray - hot dip Galvanized Prefabricated 450 mm wide	55	MTR	1,210.00	66,550.00
404	Perforated type Cable tray hot dip Galvanized Prefabricated 450 mm wide	35	MTR.	1,375.00	48,125.00
405	**Cable Glands**				
406	Cable Glands : Flame proof IIA/IIB double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
407	Cables with upto OD 20 mm & above OD 20 mm as per Single line diagram of DT & RT station	1	LOT	40,150.00	40,150.00
408	Cable Glands : Weather proof double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
409	Cables with upto OD 20 mm to 40 mm as per Single line diagram of DT & RT station	1	LOT	51,150.00	51,150.00
410	**Sub-Total Section E**				**1,68,62,459.20**
411	**SECTION-F [INSTRUMENTATION WORKS]**				

Prepared Checked Approved

TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. JAIHIND PROJECTS LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
412	**INSTRUMENTATION**				
413	**SUPPLY**				
414	Supply of Pressure Transmitter along with 2 valve manifolds with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	75,350.00	3,76,750.00
415	Supply of Pressure gauge including high range along with 2 valve manifolds with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	18	Nos	24,750.00	4,45,500.00
416	Supply of Pressure gauge including Low Range along with 2 valve manifolds, gauge saver with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	3	Nos	26,950.00	80,850.00
417	Supply of temperature element (RTD) along with flanged thermowell mounted for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	24,035.00	1,20,175.00
418	Supply of Temperature Transmitter with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	7	Nos	46,750.00	3,27,250.00
419	Supply of skin type temperature element (RTD) for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I003), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	2	Nos	20,625.00	41,250.00
420	Supply of Local control panel with all accessories as per Data sheet (P.017110 G 11087 I011), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, SAT of local control panel,supports/ frame fabrication, earthing and screwing plug for unused entries, painting and integration with RTU. Termination of all Other panel SCADA hard wired signal including RS-485 signals through LCP for RTU/SCADA by Bidder. 1. Digital Barriers 2. Analog Barries 3. Relays 4. three poisition selector switch 5. LED indication lamps 6. Push buttons 7. terminal blocks 8. internal wiring 9. MCBs 10. Door switches 11. cooling Fan 12. LED lights	2	Nos	9,07,500.00	18,15,000.00
421	Supply of Ex-proof junction box with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, iincluding Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.	4	Nos	26,950.00	1,07,800.00
422	Supply of Corrosion Monitoring system with corrosion coupon, Corrosion probe, transmitter and digital indicator (mounted in LCP) as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				

Prepared Checked Approved

TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. JAIHIND PROJECTS LIMITED

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423	Corrosion coupon along with accessories.	2	Nos	2,00,000.00	4,00,000.00
424	Corrosion probe along with transmitter, digital indicator, barriers and accessories.	2	Nos	6,50,000.00	13,00,000.00
425	Supply of Conventional Type Microprocessor based fire detection system along with smoke detector, heat detector, cabinet, manual call point, Independent 24 Hrs battery backup with 15 min in alarm state, repeater panel and Electrical Operated Siren, exit signs and cables fromsensor ,MCP, siren, hooter to controller as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
426	Controller along with cabinet along with cabling	1	Nos	2,05,700.00	2,05,700.00
427	Multisensor (smoke & heat)	10	Nos	5,335.00	53,350.00
428	WP IP 65 Manual call points	6	Nos	4,675.00	28,050.00
429	Ex Proof and WP IP 65 Manual call point	1	Nos	23,650.00	23,650.00
430	WP Hooter & Flasher	1	Nos	20,350.00	20,350.00
431	Repeater panel	1	Nos	1,08,350.00	1,08,350.00
432	Exist sign	6	Nos	13,750.00	82,500.00
433	Electrical siren Exd	1	Nos	35,750.00	35,750.00
434	24 Hrs battery backup	1	Nos	8,635.00	8,635.00
435	Supply of Conventional type gas detection system along with controller, ex proof point gas detectors, beacon hooter, flasher, , cabinet, portable gas detector, calibration kit, alignment kit as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
436	Controller with cabinet	1	Nos	2,47,500.00	2,47,500.00
437	Point gas detectors	12	Nos	1,40,800.00	16,89,600.00
438	Panel Mounted hooter	2	Nos	18,150.00	36,300.00
439	Dual tone Hooter & Beacon Ex"d" with reset push button	2	Nos	23,650.00	47,300.00
440	Portable gas detecotrs	1	Nos	1,08,350.00	1,08,350.00
441	Calibration kit	1	Nos	96,250.00	96,250.00
442	Ex d Junction Box	2	Nos	23,650.00	47,300.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. JAIHIND PROJECTS LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
443	Supply of Universal type Hand Held Configurators for transmitters with carrying case, rechargeable batteries (one working and one standby), and battery charger as per Data sheet,PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work	1	Nos	6,05,000.00	6,05,000.00
444	Supply of Instrumentation signal cable, control cable, communication cable/LAN cable, Power cables along with all sizes cable glands (WP & Exd), PVC hood, lug, ferrule, etc including Cable laying (buried as well as tray) along with termination, glanding, meggering and loop checking including supply of ferrule, lugs, cable tie, cable clamp, cable marker etc. as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.				
445	1Px 1.5mm2	500	MTRS	121.00	60,500.00
446	12Px 0.5mm2	900	MTRS	687.50	6,18,750.00
447	1Qx1.5mm2	30	MTRS	195.80	5,874.00
448	12Tx1.5mm2	200	MTRS	984.50	1,96,900.00
449	1Tx1.5mm2	180	MTRS	173.80	31,284.00
450	6Px0.5mm2	200	MTRS	467.50	93,500.00
451	2Px1.5mm2	200	MTRS	184.80	36,960.00
452	Cat 5 (LAN)	160	MTRS	195.80	31,328.00
453	3C x 2.5mm2	240	MTRS	247.50	59,400.00
454	Supply & laying of Instruments cable tray with tray cover (Branch Cable tray (50mm x 50mm), Main cable tray 900 mm, cable tray 300mm, cable tray 150 mm.) as per requirement, instruments/ PGD, CCTV/ mounting poles, instrument protection sun sheds, angles, channels, MS plates & all the erection materials and as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including installation of support, cable clamping, installation of tray cover and support painting.	1	LS	4,67,500.00	4,67,500.00
455	Supply , installation & laying of tubes and fittings as per requirement and as per PTS-Instrumentation with appendices and Scope of Work C&I. SS 316L TEE (1/2", Class 3000#, Screwed, NPTF, Seamless) ,SS316L GLOBE/BALL VALVE (1/2", Class 800#, Screwed, NPTF, Seamless), SS316L PLUG (1/2", Screwed, NPTM, Hex head, class 3000#), SS316L PIPE NIPPLE (½" NPTM, seamless, schedule #160) Length of the pipe nipple as per requirement, SS316L MALE CONNECTOR (1/2" OD x 1/2" NPTM), SS316L FEMALE CONNECTOR (1/2"OD x 1/2" NPTF), SS316L UNION (1/2" OD), SS316L TUBE (1/2" OD x 0.065" WT), SS316L TUBE (1/4" OD x 0.035" WT)	1	LS	5,47,800.00	5,47,800.00
456	Supply of mandatory spares as per Mandatory Spare **(P.017110 G 11075 I001)**	1	LS	1,37,500.00	1,37,500.00
457	**AT Bokaro** Installation of metering skids, metering cabinet under the supervision of skid supplier, cable laying and terminal of cable from skid junction box to metering system cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	1,56,750.00	1,56,750.00
458	**AT Bokaro** Installation of gas chromatograph skid, analyser & controller cabinet under the supervision of skid supplier, cable laying and terminal of cable from analyser cabinet to controller cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	86,350.00	86,350.00
459	**AT Bokaro** Installation of H2S & Moisture analyser skids, cabinet under the supervision of skid supplier, laying and terminal of cable from skid field mounted cabinet to LCP/RTU. Including supply of all the required erection, fabrication and civil materials.	1	LS	86,350.00	86,350.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. JAIHIND PROJECTS LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
460	**Sub-Total Section F**				**1,10,75,256.00**
461	**SECTION-G [TELECOM WORKS]**				
462	**AT SV 01** Supply of Input out puts cards in existing Remote Terminal unit along with internal wiring at site and configruation of new parameters in existing RTU as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, Installation of Input out puts cards in existing Remote Terminal unit along with internal wiring at site, interfacing with LCP and configuration of new parameters in existing RTU, as per Scope of Work at SV 01				
463	32 channels digital input cards	1	Nos	2,50,000.00	2,50,000.00
464	16 Channel digital output cards	1	Nos	2,00,000.00	2,00,000.00
465	12 channel Analog input cards	1	Nos	2,00,000.00	2,00,000.00
466	Supply Telecommunication system, SDH equipment STM-4 Based SDH Cabinet of (2000H x 800W x 800W along with 100 mm base frame) as per below configuration: - 2*STM-4 + 2*STM-1 + 8FE ports as per PTS-Telecommunication system (P.017110 G 11077 I002), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including erection, testing, integration with existing NMS at Noida, Commissioning and integration with existing telecom system at SV 01 additional SFP of L4.2 for SV 01 connectivity	1	Nos	10,00,000.00	10,00,000.00
467	Supply of CCTV-IP based Fixed colour camera and PTZ colour camera along with power cable, communication cable at each station as per PTS-Telecommunication system (P.017110 G 11077 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work., including erection, testing, integration with existing VMS at Noida, Commissioning and integration with existing telecom system at SV 01				
468	Fixed Camera WP IP65	1	Nos	2,00,000.00	2,00,000.00
469	PTZ camera WP IP65	1	Nos	5,00,000.00	5,00,000.00
470	Supply of one Analog phones control room, one number in guard room and one number WP IP66 in field safe area as per PTS-Telecommunication system (P.017110 G 11077 I002) , PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work				
471	Analog Phone	2	Nos	50,000.00	1,00,000.00
472	Analog Phone Ex Proof WP IP 65	1	Nos	65,000.00	65,000.00
473	FXO cards	1	Nos	75,000.00	75,000.00
474	FXS	1	Nos	80,000.00	80,000.00
475	Five pair armoured telephone cable, size 0.5mm2	100	MTR	600.00	60,000.00
476	**AT Bokaro** Free issue RTU by GAIL: Transportation from Gail store to site location, installation, cabling from LCP to RTU, commissioning etc. Erection, installation of RTU inside the station control room including supply of all the required erection materials, fabrication and civil works	1	LS	5,00,000.00	5,00,000.00
477	**Sub-Total Section G**				**32,30,000.00**
478	Total of Section A + B + C + D + E + F + G				**25,63,54,640.20**

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
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479	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Total of Section A + B + C + D + E + F + G above	18	percentage		4,61,43,835.24
480	Rate of Extended Stay Compensation per month beyond the time schedule and grace period mentioned in Bidding document for reasons solely attribute to Owner (exclusive of GST) Notes:- 1;- Extended Stay Compensation shall be loaded on the quoted price as per evaluation methodology. 2;- In case, no rate for extended stay compensation is stipulated, it will be considered that extended stay compensation is not required by the Bidder and the rates quoted by them shall be valid till completion of works in all respects.	1	Nos		5,00,000.00
481	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Extended Stay Compensation at Sl. No. 480 above	18	percentage		90,000.00
	Grand Total				30,30,88,475.44

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
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M/s. NOPS INFRASTRUCTURE PRIVATE LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
				UNIT RATE	TOTAL RATE
1	**SECTION-A (MAIN LINE WORKS)**				
2	**CH.0.00 KM to CH.23.436 KM**				
3	**MAINLINE, PIPING AND MECHNICAL**				
4	**PIPELINE LAYING / INSTALLATION** Laying/ installation of coated line pipe, associated fittings and accessories, etc. as per specifications, drawings, other provisions of Contract and instructions of Engineer-in-Charge, including but not limited to carrying out the following: "Receiving and taking-over", handling, loading, transportation and unloading of Owner supplied coated and bare line pipes and other Free Issue Materials from Contractor's own stock-yard to Work site including stringing on the pipeline Right-of-Use (ROU), Arrangement of all additional land required for Contractor's storage, Performing the additional survey wherein survey data is not sufficient in the opinion of Contractor, arrangement of working RoU if RoU width is not sufficient for equipment/ vehicle movement etc., access for construction (other than Owner provided ROU; Developing necessary access way to the worksite, including earth filling, levelling, etc.; supply of all materials (except Owner supplied materials), supply of all materials, consumables, equipment, labour, etc.; fabrication, Staking and installation of construction markers, clearing, grubbing, grading (as required) of Right of Use; clearing and grading of ROU; Cutting/ uprooting of shrubs, plants, vegetation within ROU; , Trenching to all depths and to a width to accommodate the pipeline with optical fiber cable (inside HDPE Duct) by excavation in all types of soil (in case of hard rock, additional payment for hard rock breaking will be paid as per separate SOR line item), including additional trenching for seismic and other areas as specified,(Rate for laying of optical fibre cable and HDPE Duct not be included here and same to be quoted against separate SOR item); Carrying out repairs of pipe and coating defects not attributable to Owner; Thorough internal cleaning of all pipes by suitable methods to remove debris, shots, grits etc.; Stringing of line pipes along ROU including providing straw bags, soft padding/sand padding; Aligning, cold field bending, cutting and beveling (as required) of pipes for welding and field adjustments, NDT & NDT of re-beveled area, welding, carrying out destructive & non- destructive testing of welds required as per approved NDT specifications (including radiography) and providing all requisite equipment, labour, supervision, materials, films, consumables etc.; carrying out repairs of weld joints as required, carrying out re- radiography and other non-destructive tests on repaired joints, etc.; Installation of carrier pipe including concrete coated pipes (wherever required),				
5	(Concrete Coating on pipes, covered separately) at all crossings including roads/ canals/ nala/ water crossings etc. (supply and installation of casing pipe by open cut or by Jacking/ boaring method covered separately) including pre-testing as required; Carrying out installation of carrier pipe in the casing pipe at cased crossings; Coating of all field weld joints, long radius bends (fabrication of Cold field bends covered here and fabrication of 6D bends by induction heating covered separately), buried fittings etc.; Supply & Installation of warning tape along the entire length of Pipeline including Crossing. Lowering the pipelines in trench, providing required padding over and around the pipeline with sand/graded material (in rocky areas), backfilling with available approved excavated material and/or other suitable soil (supply and providing of soft soil for pre & post padding in Rocky area); Supply and installation of slope breaker as per specifications and drawings in steep slope areas, wherever required; Carrying out hydrostatic testing including air cleaning, flushing, filling, gauging, pressurization of complete pipeline in various test sections as approved by Engineer-In-Charge to the specified test pressure, providing all equipment, pumps, fittings, instruments, dead weight tester, all types of pigs etc., and services, supervision, labour, consumables, arranging water required for hydrostatic testing including supply of corrosion inhibitor, air, etc. as required, locating of leaks and rectification of defects attributable to Contractor, re-testing after rectification, successful completion of hydro-testing of pipeline (De-watering covered else where in the SOR); including all tie-in(s) with the pipeline/ piping installed by others including cutting of test header, re- beveling as required; Carrying out all temporary, ancillary, auxiliary works and all incidental works required to make the pipeline ready for pre- commissioning; Carrying out EGP for the entire stretch of completed pipeline, Repair of defects recorded during EGP/gauge plate run or otherwise including cutting, beveling, welding, NDT, field joint coating etc.; as applicable, Final clean-up and restoration of right of use including obtaining NOC from respective statutory authorities as required and disposal of debris and returning all surplus material to designated disposal areas/storage yard, as directed by Engineer-In-Charge; Restoration of land, facilities and boundary wall etc. at associated facilities dismantled/damaged by the Contractor during construction; Obtaining work permits/ NOC from various statutory authorities having jurisdiction and complying with all stipulation/conditions/recommendation of the said authorities; Preparation of as-built drawings, pipe-book and other records. SOR shall be read in conjunction with Project drawings, scope of work, specifications, standards and other provisions of contract document. The work includes the Survey data & site preparation, Stringing/Chainges in direction, Beveling of pipe element, Welding Procedure Qualification & Welders Qualification, Welding of pipe element, Inspection & testing of production welds, Field joint coating, controlled blasting, chiseling, etc., Material hand over & material handling, Lowering-in & ballasting, All crossings except HDD as mentioned in Crossing List (including installation of carrier pipe inside the Casing at cased crossing) , Backfilling (for all depths in all types of soil, soft /hard rock) , including trench padding with sand, graded earth in rocky areas & rock shield(if required as per specs) reinstatement (restoration) and preparation of As-built Alignment & Crossing drawings.				

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6	All above works shall be executed in accordance with scope of work, GTS, PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. 1. Supply and Installation of OFC and HDPE Ducts along the entire pipeline route, adjacent to the new pipeline, along with all required accessories, fittings and associated items, is covered separately in the SOR. All above works for buried pipeline (including hook-up pipeline from Tap Off Point inside ONGC GCS, Bokaro upto proposed plot for GAIL DT), as per following details :				
7	ND12", API5L X70 - 6.4 mm	6500	M	5,610.00	3,64,65,000.00
8	ND12", API5L X70 - 7.1 mm	15850	M	5,720.00	9,06,62,000.00
9	ND12", API5L X70 - 8.7 mm	150	M	5,830.00	8,74,500.00
10	**Concrete slabs (Mechanical Protection) as per technical specifications** Supply, fabrication and installation of reinforced concrete weights. Reinforced steel size should be 8 mm. top and bottom at a rate of 200 mm c/c of precasted RCC 1:2:4 on pipeline of wall thickness of 75 mm thick and size as per specifications & Standard drawings and instructions of Owner/ Owner's representative including supply of consumables, materials, equipment, labor, supervision, all associated civil works.	382	M	1,650.00	6,30,300.00
11	**Continuous Concrete Coating** Supply of all consumables and materials, equipments, manpower, submission of application procedure with calculations for anti-buoyancy, design mix procedure qualification and application of continuous concrete weight coating thickness mentioned below (higher also, in case design requirements) on pipeline of all thickness, concrete weight coating of the field joints thereof, and performing all works as per specifications and instructions of Owner/Owner's representative and other provisions of CONTRACT DOCUMENT.				
12	35 mm thick	12	M	3,520.00	42,240.00
13	50 mm thick	12	M	4,180.00	50,160.00
14	**GEO TEXTILE BAGS FOR ANTI-BUOYANCY**				
15	Additional works over and above item no. 4 to 9 for design, manufacture and supply of Non-biodegradable geo-textile bags and installation of geo-textile bags duly filled with gravel/ stone ballast on pipelines of all wall thicknesses for anti-buoyancy, drawings, scope of work and instructions of Engineer-in-Charge and other provisions of the Contract document. Note: This item shall be applicable for Some crossings as per instructions of Engineer-incharge.				
16	ND12" (for all thicknesses)	12	M	2,750.00	33,000.00
17	**Permanent Markers** Supply, fabrication and installation of following types of permanent markers along the pipeline route including all associated civil works such as excavation in all types of soil, construction of pedestals and grouting with concrete, clearing, supply & application of approved color and quality of primer and paint, stencil letter cutting for numbers, direction, chainage, etc. restoration of area to original condition and performing all works as per drawings, specifications and instruction of Owner/Owner's Representative.				
18	Pipeline Warning Signs	35	Nos	8,580.00	3,00,300.00
19	Right-of-way boundary markers	94	Nos	8,580.00	8,06,520.00
20	Kilometer Markers	19	Nos	8,580.00	1,63,020.00
21	Aerial Markers	4	Nos	8,580.00	34,320.00
22	Navigable Waterway Markers	8	Nos	23,100.00	1,84,800.00
23	Directional Markers	297	Nos	8,580.00	25,48,260.00
	Repair of Defects in Pipe Coating (Attributable to OWNER)				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. NOPS INFRASTRUCTURE PRIVATE LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
25	**Repair of Line Pipe Coating:** Supply of all coating repair materials as per the requirements of the relevant specifications, supply of all consumables, utilities, equipment, and all manpower required, pipe cleaning and surface preparation, repairing of coating defects (resulting in holiday in coating) and testing including all handling, transportation, etc. for line pipes, performing all works necessary for the completion of the works strictly in accordance with the relevant specifications and instructions of OWNER.				
26	**Repair of Holidays in Coating**	40	Nos	550.00	22,000.00
27	Repair of Cosmetic Defects in Coating: Description of same as in 25 above, but for repair of cosmetic defects in coating.	80	m2	40.00	3,200.00
28	Repair of Defects in Line Pipes				
29	Repair of OWNER supplied pipes of all wall thicknesses, recorded at the time of taking-over by CONTRACTOR at all places of work.				
30	Cutting and rebevelling	25	Nos	6,050.00	1,51,250.00
31	Jack out method	25	Nos	6,050.00	1,51,250.00
32	All works for locating burst (occurred during hydrostatic testing and tightness test attributable to Owner issued materials) including detecting burst, necessary repairing/replacing defective pipe lengths, including cutting out and removing the defective pipe, pretesting the replacement pipe, welding of replacement pipe into mainline and NDT of welding, repair and re-testing of defective welds, coating of welded joints, cleanup, retesting including providing all labor, materials, consumables and inputs other than OWNER supplied materials and performing all works as per drawings, specifications and directions of Owner/ Owner's representative. In case of pinhole leaks not easily detectable all works for locating leak (occurred during mechanical resistance test and tightness test attributable to Owner issued materials) including detecting leak, The Payment will be made as per actual efforts and based on Equipment and manpower Rate provided in SCC . Further replacement & retesting will be paid as above.	2	Per burst	2,47,500.00	4,95,000.00
33	**LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER) (FOR TERMINAL PIPING)** **LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER DUE TO FIM)** All works for leak/burst (occurring during hydrostatic testing) by necessary repair/replacement of defective pipe length, including cutting and removing out defective pipes, welding, NDT of welds, repair and re-testing of defective welds, painting of welded joints, clean-up, re hydro testing of the pipe segment including providing all necessary equipment, labour, materials, consumables and inputs other than Owner supplied materials and performing all works as per drawings, scope of work, specifications, standards enclosed with the Contract and directions of Engineer-in-Charge. Note: 1. This rate shall be applicable for manufacturing defects in Company supplied materials only.	18	Inch-meter	660.00	11,880.00
34	**IDLE TIME PRESERVATION OF PIPELINE** Preservation of complete pipeline and associated facilities and its maintenance including supply of all consumables, all equipment, man- power, etc., complete as per the requirements of specifications, scope of work, standards, other provisions of Contract document and instructions of Engineer-in- Charge. By filling and pressurizing with nitrogen including supply and maintenance of nitrogen as per following details:				
35	Pipe OD - 12 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - 3 MONTH	23800	M	40.00	9,52,000.00
36	Pipe OD - 12 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - FOR EVERY ADDITIONAL MONTH BEYOND INITIAL 3 MONTHS	23800	M	40.00	9,52,000.00
37	PRE-COMMISSIONING FOR NATURAL GAS PIPELINES SYSTEM, Carrying out pre-commissioning activities and pre-commissioning checks to the specified acceptance criteria, making the entire pipeline system ready for commissioning (It includes cleaning including magnetic cleaning, Electrical Geometrical Pigging survey, dewatering, swabbing,, pre-drying activity, Golden-tie ins connecting the stations),, supply of all equipment, man-power, consumables, including all type of pigs and required quantity of nitrogen, materials for all temporary works and performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.				

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38	Pipe OD - 12 INCH	23800	M	30.00	7,14,000.00
39	**Commissioning Assistance**				
40	**OVERALL COMMISSIONING OF ENTIRE PIPELINE SYSTEM** Overall commissioning including system checks, inertisation (as required) and charging of entire pipeline system, including all stations and all associated facilities including notifying the Company that the pipeline system is ready for commissioning; Review of status jointly with the Company and obtaining final clearance for start of commissioning; Development and submission of commissioning procedures, obtaining Company approval thereupon, carrying out overall commissioning of the total pipeline system including all facilities and all necessary coordination/ liaison with other Contractor(s) operations; Carrying out commissioning; Supply of all equipment like Nitrogen vapourisers (as required), along with all piping and instruments, temporary venting/ flaring/draining facilities as applicable, man-power, consumables including pigs and required quantity of Nitrogen (as required); Performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.				
41	Pipe OD - 12 INCH	23800	M	33.00	7,85,400.00
42	PIPELINE INFORMATION MANAGEMENT SYSTEM Providing pipeline information management system using web based software for monitoring pipeline construction progress and providing all "As Built" data & drawings for entire length of pipeline as per specifications enclosed with the tender document.	1	LS	6,60,000.00	6,60,000.00
43	VIDEO FILM & PHOTOGRAPHY OF CONSTRUCTION ACTIVITIES Preparation of high resolution video films with audio commentary and Industrial photography covering all aspects/activities of pipeline construction annotated as required, conversion of same to video DVD/Blue Ray format, submitting three (3) sets of the same as per details in scope of work document	1	LS	3,30,000.00	3,30,000.00
44	**FABRICATION OF LR BENDS :**				
45	Fabrication of 6D bend / LR (Induction) bends as per the relevant standard & Specification attached with the tender document from free issue linepipes (mother pipe) including but not limited to the following: "Receiving and taking over of free issue linepipes" from GAIL Dump Yard location as mentioned in Scope of Work, carrying out inspection of line pipe at the time of receive taking over in the presence of Company representative, carrying out repair of pipe defects attributable to Contractor after taking over, including supply of consumables & equipments; handling, hauling, transportation and loading/unloading required to transport the mother pipes between place of issue, LR bend fabricator/ manufacturer, intermediate storage as required, and final delivery of fabricated LR Bends to the worksite(s), as per requirement, Manufacturing/ fabricating of LR Bends, as per project requirements and Specifications. LR bends exact angle(s) shall be as per pipeline alignment. Note:- 1. Rate for repairing of defects in linepipes identified and recorded at the time of receiving & taking over i.e. defects attributable to Company shall be quoted separately in the applicable items of the SOR. 2.Loading of Pipe into installation contractor trailer shall be carried out by the GAIL Dumpyard maintenance agency already engaged by the Company.				
46	Bare Pipe ND12", API5L X70 - 7.1 mm	18	Nos	93,500.00	16,83,000.00
47	Bare Pipe ND12", API5L X70 - 8.7 mm	22	Nos	96,800.00	21,29,600.00
48	**SUPPLY AND INSTALLATION OF CASING PIPE & 6 INCH CS CONDUIT:** Supply and installation of casing pipe and 6 inch CS conduit for OFC by jacking / boring or open cut for rail, road or canal crossings wherever required in all types of soils and terrain separately for carrier pipes and fibre optic cable inside HDPE duct, supply of casing pipes and all other Contractor supplied materials viz. casing insulators and casing end seals as per enclosed drawing, materials for casing vents and drains, etc. including transportation, supply of all other materials, equipments, consumables, man-power, welding including visual inspection of all weld joints, installation of casing insulators, end seals, vents and drain-off pipes, backfilling and restoration as original of the facility crossed and performing all works as per drawings, specifications including PTS and GTS and instructions of Engineer-in Charge and provisions of Contract document.				

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49	Supply and installation of Casing pipe by Boring / Jacking as per item no. 48 (Other than Railway Crossings) Casing Pipe Details: (Pipe 18" , 6.4 mm Thick, API 5L GR.B)	100	M	46,200.00	46,20,000.00
50	Supply and installation of 6 inch CS Conduit by Boring/Jacking as per item no. 48 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	100	M	15,400.00	15,40,000.00
51	Supply and installation of Casing pipe by open cut as per item no. 48 Casing Pipe Details: (Pipe 18" , 6.4 mm Thick, API 5L GR.B)	100	M	45,100.00	45,10,000.00
52	Supply and installation of 6 inch CS Conduit by open cut as per item no. 48 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	100	M	14,300.00	14,30,000.00
53	**HDD CROSSING**				
54	**Generalities**				
55	Topographic / Bathymetry, Geotech Investigation and Hydrological data collection				
56	Site preparation				
57	Design & stress calculations as per requirement				
58	Material hand-over and material handling				
59	Site reinstatement				
60	Final dossier including all notes & calculations as required in the specification				
61	**Installation of 6 inch CS Conduit**				
62	Teletransmission--Separate Drilling for 6 inch CS Conduit for OFC installation				
63	Installation of HDPE duct & OFC cable inside 6 inch CS conduit				
64	Drilling & Pulling of 6 inch CS Conduit shall be done before mainline HDD.				
65	**Pipeline string**				
66	Beveling & welding				

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67	Inspection & testing of welds				
68	Field joint coating				
69	Temporary support (roller)				
70	Control of pipeline string				
71	Hydrotesting & leak test				
72	**Drilling operation**				
73	Earthwork entry / exit points including grading erection of embankment etc..				
74	Supply & clearing out of all material needed for drilling				
75	Drilling of washer pipe, reaming & cleaning of drill opening, supply and preparation of bentonite				
76	Pull back of the pipe string				
77	Disposal of surplus of soil & bentonite				
78	Control of the integrity of the coating				
79	**Work at entry point**				
80	Changes in direction				
81	Beveling & welding				
82	Inspection & testing of welds				
83	Field joint coating & coating of all bare section of pipe				
84	Earthwork				
85	Lowering-in				
86	backfilling as required				
87	**Work at exit point**				

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88	Changes in direction				
89	Beveling & welding				
90	Inspection & testing of welds				
91	Field joint coating & coating of all bare section of pipe				
92	Earthwork				
93	Lowering-in				
94	backfilling as required				
95	Complete work for the water/ Road/ Rail crossings, including taking over and handling of linepipes from Contractor Storage Yard to worksite, Arrangement of all additional land required for Contractor's storage, fabrication, access for construction; construction design calculation and engineering of the crossing, mobilization and demobilization at site(s), supply of all materials as per "Scope of Supply" and all consumables, equipment, manpower and other resources, and acquiring the required land for site preparations, and execution of, but not limited to, the following works in accordance with specifications, drawings, and as per provisions of the Contract document and instructions of the Company/ Engineer-in- Charge: Carry out all surveys required for collecting data relevant to design and construction of the crossing, preparation of all necessary construction drawings for Company's approval as per the provisions of the Contractor document, Preparation of detailed construction method statement and calculations including Scour Depth calculations for river/ canal crossings, Strings preparation including welding, 100% Radiography of welds, NDT of welds and re-beveled areas, radiography, weld repair and re-test, pre-testing of completed string, corrosion coating of field joints with Dirax or equivalent, inspection of corrosion coating and repair of defects, Preconstruction surveys and collection of all necessary data, Installation of pipeline and CS conduit (6 Inch CS Conduit shall be installed through Seperate Drilling) , horizontal directional drilling to the correct profile as per approved drawings and specification, Post-installation hydrotest including leaks and repair of defects and retesting, etc. for defects attributed to Contractor's faulty work, Supply, fabrication and construction of protective fencing as required, Hydrotesting, Supply, fabrication and erection of pipeline markers, Restoration and clean-up etc., Preparation of as-built drawings and other records etc., All other works not specifically listed herein, but required as per specifications, drawings, provision of contract document, calculations, and construction method statements, leading to successful completion of works.				
96	Linepipe details:- (Pipe 12" dia, Wall Thickness: 7.1 mm, Pipe Grade: API 5L GR.X-70 PSL 2, External Coating: 3LPE) CS Conduit details: (Pipe 6" dia, 6.4mm Thick, API 5L GR.B) Note: 1. CS Conduit shall be supplied by the Contractor. Radiography & Hydrostatic testing is not required to be done for CS Conduit. (6 Inch CS Conduit shall be installed through Seperate Drilling) Contractor shall quote accordingly. 2. The rate shall be applicable for the drilled length of the HDDs.	1300	M	35,200	4,57,60,000.00
97	All above works shall be executed in accordance with scope of work, GTS,PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. This line item is applicable for HDD crossing mentioned in the Crossing List with prior approval of Engineer - In-Charge during Construction.				
98	**SUPPLY & INSTALLATION OF OPTICAL FIBBE CABLE AND HDPE DUCT**				
99	Suppy of 24 Fibre Composite armoured Optical Fibre Cable drum (6 fibre G-655 & 18 fibre G-652) of 4 km +/-5% Cable drum length with fiber terminal closure, inspection chamber, electronic route marker all along pipeline route, Two number electronic locater as per PTS-Optical Fibre cable and Scope of Work C&I along with all required accessories and fitments not mentioned seperately.	26200	M	138	36,15,600.00

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100	Inspection/Jointing Chamber (fabricated or readymade)	8	Nos	35,200	2,81,600.00
101	Blowing Pit (fabricated or readymade)	25	Nos	35,200	8,80,000.00
102	Supply of jointing closure 24 Fiber, 2 way including all accessories (3M, Siemens, Reychem make only)	10	Nos	8,580	85,800.00
103	Supply of End to End OFC termination of wall mounted FTC with pig tails other accessories for termination of OFC - 24 Fibre in the Telecom Room at Bokaro & SV1	2	Nos	30,800	61,600.00
104	Electronic marker	8	Nos	7,700.00	61,600.00
105	Electronic Locator	1	Nos	4,23,500.00	4,23,500.00
106	Supply of 50mm OD permanently lubricated HDPE telecom duct along with all the required accessories as per PTS-Optical Fibre cable and Scope of Work C&I	26700	M	116.00	30,97,200.00
107	Laying of HDPE Duct : Laying of 50mm HDPE Ducts in same pipeline trench direct buried, or inside 6 inch CS conduit at various crossings as per Specification in all type of soil & terrain, excavated as required, padding, backfilling, etc. including supply of accessories required for HDPE Duct installation, including plastic couplers, end plugs, cable sealing plugs, end caps, etc. suitable & sufficient for above supplied ducts, cleaning and sealing of ducts at the end laid drum lengths, preparation and supply of cable blowing pit at each Km jointing of HDPE duct, testing of HDPE Duct and accessories after laying preparation of report and final drawing and documents as per specification, joint location marking, erection accessories, as-built, etc.	22500	M	36.00	8,10,000.00
108	Blowing of Optical Fibre Cable inside HDPE Duct : All activities pertaining to Blowing of Optical Fibre Cable in same pipeline trench directly (after testing drum at site), inside HDPE duct along the pipeline and at crossing, sealing using all materials required as per specification	22500	M	38.00	8,55,000.00
109	Installation of FTC & Wire mesh, termination of OFC on FTC / DDF inside telecom room, splicing with steet fibre, fibre test, OTDR test, power testing of laid OFC, identification of fault, rectification, earthing, final testing and commissioning, preparation of reports, etc. work complete in all respect with all necessary accessories for all location till final Handing Over and Taking Over by Owner of laid OFC.	1	LS	25,300.00	25,300.00
110	**TRANSPORTATION OF COATED AND BARE LINEPIPES FROM GAIL DUMPYARDS (ANY LOCATIONIN INDIA) TO CONTRACTOR STORAGE YARD:**				
111	"Receiving and taking over" of "free issue" Linepipes from GAIL Dump Yard location (any location in India); Carrying out inspection of Linepipes at the time of receiving and taking-over, recording of pipe & coating defects at the time of taking over in the presence of Company's representative, carrying out repair of coating defects & pipe defects attributable to Company; including supply of materials, consumables & equipments; handling, hauling and transportation from designated place of issue to Contractor Storage Yard; unloading and stacking of the linepipes at Contractor Storage Yard; including arranging all equipments, trailers, trucks & manpower; all works as per Scope of Work, drawings, PTS, GTS and other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, Provision of Contract & instructions of Engineer InCharge.				

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112	Linepipe Details:- Coated and Bare Line Pipe 12" diameter API 5L Gr. X-70 PSL-2 Wall Thickness - 6,4mm / 7.1mm / 8.7 mm External Coating - 3LPE, Internal Coating - Liquid Epoxy 1) Loading of Pipes into Installation contractor's trailer shall be carried out by the contractor. 2) Development & Maintenance of Contractor Storage Yard adequate to store the linepipes including arrangement of all Lifting & Handling equipment at Contractor's Storage Yard shall be done by the Contractor. Rate for the same shall be quoted in applicable items. 3) Rate for repairing of coating defects in linepipes identified and recorded at the time of receiving & taking over i.e. coating-defects attributable to Company shall be included in this item. 4) Rate for repairing of pipe-defects identified and recorded at the time of receiving & taking over i.e. pipe-defects attributable to Company shall be quoted separately in the applicable items of the SOR. 5) Transportation of line pipe from Contractor's Storage Yard to work site is included in SOR item 1 above, No separate payment will be applicable for the same.	220000	Ton-Km	36.00	79,20,000.00
113	**TRANSPORTATION OF FREE ISSUE PIPING ITEMS (OTHER THAN LINE PIPE) FROM GAIL STORAGE YARDS (ANY LOCATION IN INDIA) TO CONTRACTORS YARD / WORKSITE(S) :** "Receiving and taking-over", handling, lifting, loading, transportation and unloading of Company supplied "free-issue materials" (Other than line pipe) viz. Metering Filtering and PRS Skid, Scrapper Launcher/ Receiver & accessories, Valves with or without Actuators, Insulation Joints, Flow Tee, Pig Signallers, fittings, flanges etc. from GAIL Storage yards location (any location in India) to Contractor's Storage Yard / work-site(s). Note:- 1) Location of GAIL Storage Yard shall be anywhere in India. Contractor shall quote accordingly. 2) Transportation of FIM from Contractor's Storage Yard to work site, is included in SOR item 121 below, No separate payment will be applicable for the same.	15000	Ton-Km	46.00	6,90,000.00
114	**DEVELOPMENT OF CONTRACTOR STORAGE YARD:**				
115	Development of the Contractor Storage Yard including fencing, illumination etc., including deployment of all lifting and handling equipments, manpower required to stack, unload and load all Free Issue Material (FIM) including Line Pipes and all bought out items, as required; storage of all Free Issue Material and bought out items for the required duration as per project requirement, all works as per Scope of Work, drawings, other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, PTS, GTS and Provision of Contract & instructions of Engineer In-Charge. The storage yard shall be used for storage of all Free Issue Line pipes, all other Free Issure Material (FIM) and all bought out items required for the project. Notes:- 1) Development of contractor storage yard adequate to store all the material required for Project, including all Free Issue Material (FIM) and bought out items. (Rate for the same shall be captured in this item) 2) Maintenance of contractor storage yard for the entire project period is included in the scope of contractor. No separate payment shall be applicable for the same.	1	LS	2,75,000.00	2,75,000.00
116	Hard Rock breaking by controlled blasting / chiseling method (rate will be applicable in case when prior approval for rock breaking is obtained by the contractor from GAIL / PMC)	100	M3	2,475.00	2,47,500.00
117	Clean Agent Fire Supression System as per Scope of Work	1	LS	3,85,000.00	3,85,000.00
118	Restoration of underground utilities (pipes & cables) during excavation at ONGC, GCS Bokaro and Receiving Station (which is inside SV-01 Premises)	10	Nos	93,500.00	9,35,000.00
119	**Sub-Total Section A**				**22,03,44,700.00**
	SECTION-B [MECHANICAL (PIPING & TERMINAL WORKS)]				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. NOPS INFRASTRUCTURE PRIVATE LIMITED

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121	**PIPING WORKS AT DESPATCH AND RECEIVING STATIONS AND HOOK-UP WITH ONGC GCS, BOKARO** All works for installation of all piping at all elevations for Despatch and Receiving Stations as indicated in Drawings, Scope document, including supply of all consumables, Gaskets, nuts, bolts Studs, manpower, materials and equipment (except Company supplied free-issue materials), aligning, grouting, tie-in with pipeline and carrying out all mechanical works of underground and above ground piping including fabrication, welding, installation of all pipes, valves (manual & actuated), flanges, fittings, flow tees, pig signalers, insulating joints, corrosion monitoring probes /corrosion coupons, installation of instruments (pressure/temperature gauges, vents, drains-off, safety relief valves, electro hydraulic valves etc.) as indicated in P& IDs and GADs. 100% Radiography of weld joints of piping above 1.5 inch, Magnetic particle & Die penetration test for piping 1.5 inch & below, all NDT of welds, weld repairs/retesting, hydrostatic testing, cleaning/flushing, functional testing, de-pressurizing , Drying and dewatering, cutting and re-beveling (as required), hookup of all pipeline/utilities at the battery limit with the pipeline/utilities installed by others, obtaining all statutory clearances, approvals and permissions for the work (wherever required), excavation and filling in all types of soils including soft/hard rock for installation of piping/ pipe supports; corrosion coating and external painting (as required), finishing, clean-up and restoration of site, preparation of as- built drawings, documents and project records and performing all works as per drawings, specifications, other provisions of Contract document and instructions of Engineer-in-Charge. Civil/ structural works for piping supports will be paid separately as per unit rate provided elsewhere in the contract. Cost of Transportation of all materials (Including FIM mentioned above) for station works, from Contractor's own stock-yard to Work site, to be included in this SOR item. No separate payment will be applicable for the same.				
122	Fabrication and Erection of piping as per item no.110, (For Pipe Size 2 Inch and above, 100% Radiography) Note: 1. Rate for Handling, Fabrication and erection of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item. Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor.Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes 2" & above, shall also be part of this item. Contractor shall quote accordingly.	1900	Inch Dia Meter	1,980.00	37,62,000.00
123	Fabrication & Erection of Piping as per item no.110 (For Pipe Size Below 2 inch, Magnetic particle & Dye Penetration Test as per the requirement of specification)	50	Inch Dia Meter	1,760.00	88,000.00
124	Painting of Piping (Pipe, Fittings, Flanges, Valves, Equipments, etc.) as per item no. 110	1950	Inch Meter	127.00	2,47,650.00
125	Hydrostatic testing, cleaning / flushing, functional testing, de-pressurizing, dewatering & drying of Piping as per item no. 110 (for all size upto 12").	1950	Inch Meter	40.00	78,000.00
126	**INSTALLATION OF COMPANY SUPPLIED FIM (FML SKID AND PIG LAUNCHER/RECEIVER SYSTEM) AT DESPATCH TERMINAL AND RECEIVING TERMINAL**				
127	Installation of Company supplied Filtering, Metering and PRS Skid and Scrapper Launcher/ Receiver with accessories, at stations including all handling and installation works; as per drawings, specifications enclosed with the Contract and directions of Engineer-in-Charge. Cost of Transportation of above Free issue items, from Contractor's own stock-yard to Work site for station works, to be included in this SOR item. No separate payment will be applicable for the same.	1	LS	1,81,500.00	1,81,500.00
128	**CONTRACTOR SUPPLIED ITEMS:(Supply of Items as per attached PTS,GTS,Data Sheet,QAP and PMS)**				
129	**Station pipe -Seamless**				
130	1" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, PE, SEAMLESS	6	Meter	1,705.00	10,230.00
131	2" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	90	Meter	2,640.00	2,37,600.00
132	4" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	120	Meter	3,740.00	4,48,800.00
133	10" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	12	Meter	8,800.00	[illegible]00.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. NOPS INFRASTRUCTURE PRIVATE LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
134	12" pipe, 7.1mm thk, ANSI B 36.10, API 5L X 70,HFERW	84	Meter	16,500.00	13,86,000.00
135	**Supply of fittings & Flanges**				
136	1 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 350 LF2,CL1, BW, ANSI B16.25	4	Nos	1,540.00	6,160.00
137	1" WNRF FLANGES, 6C1, SCH. 160 / 600#, WNRF, B-16.5, ASTM A350 LF2, CL1, BW-ANSI B16.25 RF	4	Nos	1,980.00	7,920.00
138	1", BLIND FLANGES, 6C1, 600#, RF, B-16.5, ASTM A350 LF2, CL1, RF	4	Nos	1,320.00	5,280.00
139	3/4" EQUAL TEES, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25,	2	Nos	1,045.00	2,090.00
140	3/4", CUP THREADED 6C1, 6000#, ANSI B16-11, ASTM A 350 LF2, CL1 , BW - ANSI B16.25, ANSI B1.20.1,	3	Nos	1,155.00	3,465.00
141	**WELDOLETS (MAINLINE x BRANCH SIZE)**				
142	4" x 1", WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	4	Nos	7,150.00	28,600.00
143	12" x 2" WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 7.1 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 694 F70	5	Nos	9,790.00	48,950.00
144	12" x 2", WELDOLETS (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 7.1 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	35	Nos	10,120.00	3,54,200.00
145	**GASKETS**				
146	GASKETS, 6C1, 600#, RF, ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 1"	12	Nos	105.00	1,260.00
147	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 2"	210	Nos	170.00	35,700.00
148	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 4"	30	Nos	660.00	19,800.00
149	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 10"	2	Nos	1,265.00	2,530.00
150	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 12"	44	Nos	1,485.00	65,340.00
151	**NIPPLES**				
152	NIPPLES, 6C1, Sch 160 /600#, ANSI B 36.10, ASTM A333 GR.6, BOTH ENDS PLAIN, SEAMLESS-LG=100mm, 3/4"	10	Nos	495.00	4,950.00
153	NIPPLES, 6C1, Sch 160 / 600#, ANSI B 36.11, ASTM A333 GR.7, ONE END THRD -MNPT SEAMLESS- LG=100mm, 3/4"	8	Nos	605.00	4,840.00
154	**Supply of following Valves as Per attached PTS,GTS,Data Sheet,QAP,PMS & MTO**				
155	1",BALL VALVE - FULL BORE (RF) (ABOVE GROUND),6C1	6	Nos	30,800.00	1,84,800.00
156	3/4", CHECK VALVE (RF) (AG), 6C1	2	Nos	25,300.00	50,600.00
157	**3/4",NEEDLE VALVE, 6C1**	5	Nos	18,700.00	93,500.00
158	Note (Applicable for all items of SOR item No 128 to 157): 1. Before procurement of any of the above materials Contractor will take prior approval from GAIL / PMC. 2. Payment will be made for actual quantity used.				
159	**Sub-Total Section B**				**74,65,365.00**
160	**SECTION-C [CIVIL / STRUCTURAL & ARCHITECTURAL]**				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. NOPS INFRASTRUCTURE PRIVATE LIMITED

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161	**CIVIL , STRUCTURAL & ARCHITECTURAL**				
162	**Earthwork excavation in soil**				
163	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	2900	cum	715.00	20,73,500.00
164	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth beyond 1.5m and upto and inclusive of 3.0m including Removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	70	cum	935.00	65,450.00
165	**Earthwork excavation in soft rock**				
166	Earth work in EXCAVATION below ground level for all kinds of works in SOFT ROCK and HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as irected including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	255	cum	1,375.00	3,50,625.00
167	**Backfilling after execution of work**				
168	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps within a LEAD OF 100M,including re-excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/ mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	1150	cum	385.00	4,42,750.00
169	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps beyond a LEAD OF 100M AND UPTO & INCLUSIVE OF 500M including re- excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	490	cum	495.00	2,42,550.00
170	**Transporting & Disposing the SURPLUS EARTH AND DEBRIS**				
171	Transporting and disposing the SURPLUS EARTH AND DEBRIS including shrubs and vegetations from construction areas to areas ANYWHERE OUTSIDE THE PLANT BOUNDARY, including re-excavating the deposited soil excavated earlier, loading, transportation, unloading, laying at all depths and heights, stacking,levelling and dressing both the area (viz. from where the earth is transported and where it is deposited) to required levels and slopes complete with all lifts as directed. For carting on the basis of truck measurements (volume of truck reduced by 30% for voids). DISPOSAL AREAS OUTSIDE PLANT BOUNDARY TO BE ARRANGED BY THE CONTRACTOR. Royalty as applicable for disposal outside plant limits to be borne by the Contractor	1310	cum	275.00	3,60,250.00
172	**EARTH WORK FILLING BY EXCAVATION**				
173	EARTHWORK IN FILLING by excavating the earth from BORROW AREAS arranged by CONTRACTOR for all leads, transporting the earth from borrow area including cleaning & stripping the earth at borrow areas, breaking clods, loading, unloading and laying at all depths and heights in layers of thickness not exceeding 15 cms., watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% of the maximum laboratory dry density, ressing, trimming, levelling the top surface etc. in foundations, plinths, trenches etc. all complete.	9555	cum	825.00	78,82,875.00
174	**PLAIN & REINFORCED CEMENT CONCRETE: (REFER SPECIFICATION NO. (Z/02/0004)**				
	PLAIN CEMENT CONCRETE - PCC				

TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. NOPS INFRASTRUCTURE PRIVATE LIMITED

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176	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:4:8 (1 cement : 4 coarse sand (Zone-III) : 8 graded stone aggregate 40 mm nominal size)	160	cum	5,280.00	8,44,800.00
177	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:3:6 (1 cement : 3 coarse sand (Zone-III) : 6 graded stone aggregate 40 mm nominal size)	22	cum	5,610.00	1,23,420.00
178	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:2:4 (1 cement : 2 coarse sand (Zone-III) : 4 graded stone aggregate 20 mm nominal size)	150	cum	6,050.00	9,07,500.00
179	Providing and laying PLAIN CEMENT CONCRETE for all depths below and upto plinth level in foundations, drains, fillings, non-suspended floors, pavements & ramps or any other works etc. including shuttering, tamping, ramming, vibrating, curing, etc. all as specified in any shape, position, thickness and finishing the top surface rough or smooth as specified and directed all complete for concrete grade M20 with 20mm and down size graded crushed stone aggregates/Gravels. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR	26	cum	5,390.00	1,40,140.00
180	**RCC WORKS**				
181	**SUBSTRUCTURE**				
182	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUBSTRUCTURE INCLUDING CENTERING & SHUTTERING) e.g. foundations, raft, beams, pile caps, Retaining walls, counterforts, buttresses, pedestals, pipe sleepers, columns, suspended floors, staircases, landings, steps, brackets etc., including equipment/ machine foundations & pedestals viz. compressors, generators, etc. (including single pour concreting as specified on the drawing), applying cement wash on concrete surface (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering, etc., wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT)for all depths below and upto plinth level in any shape, position and thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	1220	cum	9,350.00	1,14,07,000.00
183	**SUPER STRUCTURE- EXCLUDING CONTROL ROOM BUILDING, GUARD ROOM & BOUNDARY WALL**				
184	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUPER STRUCTURE INCLUDING CENTERING & SHUTTERING in suspended floors, slabs, beams, columns, walls including counterforts, staircases, landings, steps, facias, fins, mouldings, gutters, shelves, window sills, canopies, lintels, girders, ducts, brackets, chajjas with drip moulds, pedestals, posts, struts, equipment/ machine foundations, ramps etc. (including single pour concreting as specified on the drawing), providing cement wash (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT) FOR ALL HEIGHTS UPTO & INCLUSIVE OF 20 m ABOVE PLINTH LEVEL in any shape, position, thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	70	cum	12,650.00	8,85,500.00
185	**CONTROL ROOM BUILDING (SUPERSTRUCTURE)**				
186	Construction of Control Room Building as per drawings and specification. Building work for all Superstructure works INCLUDING CENTERING & SHUTTERING , Reinforcement , masonry work, partition wall, Plastering & pointing, flooring, Floor finishes, Door & windows, rolling shutter, false ceiling, all finishes, painting, roof treatment complete in all respect etc.)	215	m2	26,400.00	56,76,000.00
187	**GUARD ROOM (SUPERSTRUCTURE)**				
188	Guard Room as per drawings and specification. Building work for all superstructure works including (Reinforcement, masonry work Plastering & pointing, flooring, Floor finishes, Door & windows, painting, roof treatment, all finishes, water supply and sanitary work complete in all respect etc.)	17	m2	30,800.00	5,23,600.00
189	**HYD Bars / MS Bars**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

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190	Supplying and placing in position HIGH YIELD STRENGTH DEFORMED STEEL BARS REINFORCEMENT of Grade Fe500D TMT conforming to IS:1786, for RCC work (excluding control room building & Guard room & boundary wall superstructure) including transporting the Steel, straightening, cleaning, decoiling, cutting, bending to required shapes and lengths as per details, binding with 18 SWG black soft annealed binding wire at every intersection, supplying and placing with proper cover blocks, supports, chairs, overlaps, welding, spacers, fanhooks etc. for all heights and depths etc. all complete as directed. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE	136	MT	1,04,500.00	1,42,12,000.00
191	**BOUNDARY WALL (SUPERSTRUCTURE)**				
192	compound wall (Superstructure)with RCC columns, beam, coping and Brick masonry (3.0m high) with an additional 0.6m high barbed wire & concertina coil (dia. 600mm) overhead on 'Y' shape structural steel frame. (SUPERSTRUCTURE) works included (masonry work, Plastering ,painting, CENTERING & SHUTTERING complete in all respect etc.)with gate and supplying, fixing and tensioning in position 2.5mm(12 gauge), 2 ply, 4 points, GI Barbed wire designation A-1 conforming to IS:278 in horizontal rows and cross diagonals for compound wall "Y" shaped overhang etc. with necessary GI staples, clips and pins, GI straining bolts and binding wire with all labour and materials etc. complete as per drawings, specifications and directions of Engineer-in-Charge.(The barbed wire shall be measured in linear length of the barbed wire actually fixed) Supplying, fabricating and fixing in position structural steel line posts, straining posts, struts for 'Y' shaped overhang etc. conforming to IS:2062 over brick/stone Masonry/ RCC compound walls/ columns, cutting to required size as per drawings and specifications, welding where necessary, embedding in position, holding to correct level and line, any auxiliary structure for dummy supports, drilling holes and painting as per painting specification attached with tender, cutting brick/rubble/concrete surfaces if necessary, grouting with M20 grade concrete including cost of grout with all labour and material etc. complete as per drawings, specifications and directions of Engineer-in-Charge.(All materials including cement shall be supplied by contractor).	285	RM	12,650.00	36,05,250.00
193	**STRUCTURAL STEEL WORKS (REFER TE SPECIFICATION)**				
194	Supplying, fabricating and erecting of structural steel and applying COATING (Post-erection/ Field) of approved quality and shade as per TE Specification or Job Specifications, wherever applicable) over the coat of shop primer already applied, including storage, surface preparation, degreasing, cleaning, drying, providing necessary arrangement for access, testing etc. including touching up of shop for steel structures (Including Wicket Gate, Main Gate and emergency gate, excluding ladders, spiral stairways & hand rails) at all location & levels, all complete as specified, for UNIT (INLAND) areas considering environment classification as INDUSTRIAL. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE. (Unit rate based on Structural steel weight)	19.5	MT	37,400.00	7,29,300.00
195	MISCELLANEOUS STEEL WORKS (REFER TE - SPECIFICATIONS)				
196	**MS Chequered Plates**				
197	Supplying, fabricating and erecting in position at all levels and locations bolted, screwed and/or welded M.S. CHEQUERED PLATES of any thickness in walkways, platforms, staircases or any other place as directed, etc. cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing, welding, preparation and submission of fabrication drawings and preparing the surfaces for painting and applying shop primer as per TE Specification after fabrication and return of unused/ scrap/ unserviceable chequered plates to Owner's store and material reconciliation etc. all complete as specified and directed	1.5	MT	1,21,000.00	1,81,500.00
198	**Anchor Bolts**				
199	Supplying, fabricating, fixing and keeping in position at all levels and locations THREADED ANCHOR BOLTS of all diameters and nomenclature including nuts, washers, anchor plates, pipe sleeves etc. in foundations, columns, pedestals, slabs, beams, walls etc. or any other place as directed including handling & transporting, straightening if required, turning from relevant size M.S. rounds to required diameter, threading, welding, providing necessary templates and auxiliary dummy structures, if any, necessary tying and welding with reinforcement, adjustment of shuttering & reinforcement/any other fixture, greasing exposed metal surfaces, covering bolts and packing the sleeves with jute cloth etc. all complete as specified and directed.(SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1	MT	1,59,500.00	1,59,500.00
200	**MS Metal Inserts**				
201	Supplying, transporting, storing, fabricating and fixing in position M.S. METAL INSERT (with lugs) of any shape made out of flats, plates, rolled sections, pipes etc. providing necessary templates, staging, cutting,straightening, if required, bolting, welding as required and embedding in position on both Plain and Reinforced Cement concrete members inclusive of adjusting shuttering & reinforcement/ any other fixture, welding where necessary, tying and holding to correct level, line and position, any auxiliary dummy structures to support the heavy inserts, painting exposed surfaces with a coat of primer as per TE Specification all complete for all depths and heights as specified and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	0.55	MT	1,15,500.00	63,525.00
202	**MS Grating**				

TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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203	Supplying, fabricating and erecting in position at all levels and locations ELECTROFORGED GALVANISED GRATING (purchased from approved manufacturer by the Contractor) conforming to TE STANDARD (in walkways, platforms, stair treads etc.) including cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing with manufacturer's supplied galvanised clamps, preparation and submission of fabrication drawings, all complete as specified and directed (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.7	MT	2,14,500.00	3,64,650.00
204	**Hand Railing 1000mm**				
205	Supplying, fabricating and fixing in position at all locations 1000mm high INCLINED HAND RAILING (for staircases) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade M.S. Tubes conforming to IS:1239 including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE SPEC. preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	RM	2,090.00	20,900.00
206	Supplying, fabricating and fixing in position at all locations 1000mm high HORIZONTAL HAND RAILING (for platforms, walkways, etc. or any other location as directed) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade MS Tubes conforming to IS:1239 and 100x5 MS Toe Plate confirming to IS:2062 (Grade A/B), including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE standard drawing & specification, preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	2,640.00	26,400.00
207	**CHAIN LINK FENCING**				
208	Supplying, fabricating and fixing G.I. chain link fencing with 3.5mm dia. wire, 50x50mm diamond mesh chain link fence fabric conforming to IS:2721 fixed to steel/RCC posts/struts above ground level, including supply of chain link fencing fabric in 1.9 metre wide rolls, stretcher bars, staples, etc. required for fixing the fencing, fixing of chain link fencing between straining posts, fixing of bottom of fencing in cement concrete 1:2:4 blocks and painting with synthetic enamel etc. , including supply and fixing line wires, complete as per drawings, specifications and directions of Engineer -in-Charge (All materials shall be supplied by Contractor). (The measurement of chain link fencing shall be on linear basis for 1.9 m wide fencing fabric)	10	M	6,050.00	60,500.00
209	**ROADS & FLEXIBLE PAVEMENT (UPTO WBM LAYER)**				
210	Preparation and consolidation of sub-grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth outside the property boundary in the un-disputed areas as directed by Engineer-In-Charge.	2400	M2	1,980.00	47,52,000.00
211	Supplying and laying of stone aggregate of 63mm down to 45mm size for WBM layer Base Course, tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 75mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding material of plasticity index upto 6%, including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts etc. complete as per drawings, specifications and directions of Engineer-in-Charge	7200	M2	2,640.00	1,90,08,000.00
212	**CONCRETE PAVEMENTS**				
213	Construction of dry lean cement concrete (DLC) sub base over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in- charge.	240	cum	4,180.00	10,03,200.00
214	Providing and laying Reinforced Cement Concrete with 20mm and down size graded crushed stone aggregates in flooring, pavements etc. including leaving pockets, if necessary, making recess/drains, laying in alternate panels, etc. for all depths including shuttering, tamping, curing, providing dowel bars with sleeves/tie bars etc where ever required at site. as specified in any shape, thickness, position and finishing the top surface smooth etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For RCC of M-30 grade concrete (all materials including cement but excluding cost of providing & fixing reinforcement and joint sealing shall be supplied by the contractor).	600	cum	4,290.00	25,74,000.00
215	Providing 20mm wide Expansion Joints in pavement slabs as per general technical specification including cleaning the joints of all loose material, filling with 20mm thick impregnated fibre boards for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved Joint Sealing Compound as per IS:1834 Type-B etc. all complete as per drawings, specifications and directions of Engineer-in-Charge	1100	M	4,400.00	48,40,000.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. NOPS INFRASTRUCTURE PRIVATE LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
216	Sealing joint around pedestal and column etc. 20mm wide x 150 mm deep including filling with 20mm thick impregnated fire board for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved joint sealing compound as per IS:1834 Type-B.	300	M	3,850.00	11,55,000.00
217	**RCC PIPE CULVERTS & ELECTRICAL ROAD CROSSINGS ETC. (as per drawing & TE specification)**				
218	Supplying and laying in position RCC pipes with collars conforming to IS:458 for pipe culverts, cable crossings etc. including cutting the pipe if necessary, lowering, laying in position to proper levels, slopes etc. caulking the joints with spun yarn soaked in neat cement slurry and finishing with cement mortar 1:2 (1 cement : 2 sand) curing etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For following Class and Internal PIPE DIA (MM). (Dia (internal) - 500 mm, Pipe Class - NP3)	20	M	6,050.00	1,21,000.00
219	**U/G AND A/G G.I. PIPELINE SYSTEM - WATER SERVICES tender specification**				
220	Supplying and laying mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ ASTM A105 (Galvanized) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, earthwork in excavation for trenches, valve pits, etc. in all types of soil excluding soft and hard rock including laying of pipes in trenches, joining the pipes and fittings with threaded connections, hydrostatic testing of the piping, backfilling the trenches with selected/approved earth fill material, cutting of roads wherever required, making good the road surface after laying, disposal of surplus earth within a lead of 500 m, etc. including supply of necessary fittings etc. complete as per specifications, drawings and directions of Engineer-in-Charge. For following Nom.Size in mm. (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	1,045.00	10,450.00
221	Supplying and laying above ground mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ASTM A 105 (GALVANISED) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, including laying of pipes on sleeper, walls, including erecting piping on columns, etc. for pump station, overhead tanks, etc. including joining the pipes and fittings with threaded connections, hydrostatic testing of the piping including supply of necessary fittings etc & pipe supports. complete as per specifications, drawings and instructions of Cement Supplied by contractor (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	990.00	9,900.00
222	**MISC. CIVIL AND STRUCTURAL WORKS FOR U/G PIPING AND OTHER CIVIL WORKS**				
223	Providing and laying brick masonry with locally available bricks of specified class (Brick of class lower than specified shall not be accepted) in cement mortar 1:4 (1 cement : 4 Coarse sand) in one or more brick thickness and in any shape in foundation and plinth for valve pits, drains, circular/square manholes, wing walls, etc. including providing recesses, openings, etc. including curing, finishing the joints flush below ground level and raking out joints in plinth with all labour and material, etc. complete as per drawings, specifications and direction of Engineering-Charge. For following Brick Class. All materials including cement supplied by the Contractor and. (Brick Class - 5)	418	cum	12,650.00	52,87,700.00
224	Providing 13mm thick average cement plaster in cement mortar 1:3 (1 cement: 3 sand) on brick walls/stone masonry/pitching or on concrete surfaces for manholes, valves pits, culverts, wing walls, etc. including cleaning and preparation of the surface, scaffolding, curing etc. for all depths and heights complete as per drawings specifications and direction of Engineer-in-Charge. All materials including cement supplied by the Contractor.	775	M2	715.00	5,54,125.00
225	**UNDERGROUND SEWER SYSTEM - RCC PIPES**				
226	Supplying and laying underground R.C.C. pipes sewers with socket and spigot ends conforming to IS:458 of approved make, to proper grade and alignment, including earthwork in excavation in all types of soil except soft and hard rock for pipe trenches, etc. including dewatering, shoring and shuttering if necessary, dressing of sides, leveling, grading and ramming of bottoms, cutting the R.C.C. pipes to required lengths, lowering the pipes, jointing, including connecting the pipes to manholes and grouting the pipe body with manhole wall using cement mortar 1:2 (1 cement : 2 sand), testing, draining of water and cleaning of pipe after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness , watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, including cutting of roads wherever required and making good the same, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit etc. complete for all depths as per drawings, specifications and instructions of Engineer-in-Charge.(All material shall be supplied by contractor) For following Pipe size (mm) and Class(The following pipe sizes are all internal diameter of the pipes)				

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227	(Dia (Internal) - 100 mm, Piping Material Class - NP2)	15	M	14,850.00	2,22,750.00
228	(Dia (Internal) - 150 mm, Piping Material Class - NP1)	15	M	17,050.00	2,55,750.00
229	(Dia (Internal) - 450 mm, Piping Material Class - NP2)	70	M	19,250.00	13,47,500.00
230	**UNDERGROUND SEWER SYSTEM-HDPE PIPES**				
231	UNDERGROUND SEWER SYSTEM-HDPE PIPES :- Supplying and laying HDPE pipes conforming to IS:4984 of approved make to proper grade and alignment, including earthwork in excavation for trenches etc. in all types of soil except soft and hard rock including dewatering till completion of subsequent works, shoring and strutting, if necessary, dressing the sides, leveling, grading and ramming the bottom, jointing the pipes using hot plates as per manufacturer's recommendation, lowering, providing and laying 1:5:10 (1 cement : 5 sand : 10 aggregate) plain cement concrete of minimum 100mm thickness on bottom and side of pipe as directed, connecting the pipes to manholes and grouting the pipes to manhole/valve chamber walls, including supplying and fixing the specials and fittings, such as bends, reducers, tees, elbows, caps etc. conforming to IS:8008 or fabricated from pipes as per specification, supplying and fixing of flanges, fixing of online valves, including fixing of bolts, nuts and gaskets etc. as per specifications, testing, draining of water and cleaning of pipes after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness, watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit, cutting of road wherever required, making good the same etc. complete for all depths as per drawings, specification and instruction of Engineer-in- Charge. For the following nominal diameter (mm) Pressure Rating(Kg/Cm2). (Dia (Internal) - 80 mm, Pressure Rating - 2.5 Kg/sqcm)	50	RM	1,650.00	82,500.00
232	**PLUMBING AND BUILDING DRAINAGE**				
233	Supplying and fixing approved quality Cast Iron soil/waste pipe conforming to IS:1729 below ground with necessary specials, bends such as Y-junction, T- junction (both single and double) including plugs, shoes, cowls, jointing with lead caulked joints and testing, cutting in floors, earth work in excavation, encasing the pipe in 50mm THK, PCC M20, backfilling and removal of surplus earth upto a lead of 50M etc. complete as per drawings, specifications and directions of Engineer-in-Complete				
234	100mm dia (All materials including cement supplied by contractor)	10	RM	1,760.00	17,600.00
235	80mm dia (All materials including cement supplied by contractor)	10	RM	1,540.00	15,400.00
236	Supplying and fixing gun metal globe valve conforming to IS:778, complete as per specifications and directions of Engineer-in-Charge.				
237	Dia - 50 mm	2	Nos	11,550.00	23,100.00
238	Constructing of brick masonry valve chamber in 1:4 Cement mortar(1 cement: 4 sand) with CI frame & cover fixed on M-20 grade cement concrete , necessary excavation, M-20 grade foundation concrete, 13mm thick 1:3 cement plaster on inside & all exposed surfaces, backfilling, removal of surplus earth for all leads within the complex limit etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge. For following Valve size and Brick Class (All materials including Cement supplied by contractor)				
239	Dia - 50 mm, Brick Class - 5)	2	EACH	1,15,500.00	2,31,000.00
240	Providing and fixing approved stone ware 100mmx100mm dia. gully trap as per tender specification, including grating with CI frame and cover 300mmx300mm including brick masonry (brick class shall be as mentioned below) chamber in 1:4 cement mortar(1 cement: 4 sand) on M-20 grade cement concrete foundation, plastered inside and outside surfaces with 1:3 cement mortar (1 cement: 3 sand) with 13mm average thickness including providing and fixing light duty CI frame and cover, painting CI frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat, earth work in excavation, backfilling, removal of surplus earth, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry etc. all complete as per drawings, specifications and directions of Engineer-in-Charge				

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. NOPS INFRASTRUCTURE PRIVATE LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
241	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	49,500.00	99,000.00
242	Construction as per(Design basis & general technical specification) of brick masonry (brick class shall be as mentioned below) inspection chambers/manholes of 750mmx750mm internal size 1000mm deep(Max.) in cement mortar 1:4 (1 cement: 4 sand) with CI frame and cover 500mm clear dia, (circular Medium duty of grade MD-10) conforming to IS:1726 fixed on RCC slab of M-30 grade, necessary excavation, supplying, fixing 4 Nos. 16mm dia M.S. rungs, M-20 grade foundation concrete 1:3 cement mortar(1 cement: 3 sand) plastering of 13mm average thickness for inside & 16mm avg. thickness for outside exposed surfaces, backfilling, disposal of surplus earth upto a lead of 100M, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry, painting the C.I.frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat etc. all complete as per drawings, specifications and directions of Engineer-in-Charge.				
243	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	79,200.00	1,58,400.00
244	Construction, supplying, installation, testing and commissioning of septic tank as per standards and IS:2470 Part-I , with all necessary accessories like inlet, outlet vent pipes, manhole covers, rungs etc. including earthwork in excavation in all type of soil except soft and hard rock, backfilling and disposal of surplus earth for all leads etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge				
245	All material including cement supplied by contractor for (Users - 10 NOS)	1	Nos	77,000.00	77,000.00
246	**MISCELLANEOUS ITEMS**				
247	Supplying and fixing in position entrance gate in complex boundary wall fencing manufactured out of steel frame work and square MS bars of 20 mm at 100 c/c and horizontal name plate band at lock rail level suitably hinged with box type steel post embedded in cement concrete i.e. providing the tension bar for smooth operation and locking arrangement etc. complete as per tender specification, including painting with two coats of anti-corrosive paint and two coats of approved aluminium/synthetic enamel paint etc. complete as per drawings, specifications and directions of Engineer-in-Charge.				
248	4.0M clear opening width of gate in two panels.	3	Nos	1,92,500.00	5,77,500.00
249	Supplying & Laying interlocking Paver Blocks for roads, footpaths and any other place etc. including providing 50 mm thick sand filling below Paver Blocks including compaction of sand layer, filling the joints by dry sand, providing precast kerb stone of PCC M-20 at edges, including preparation of compacted sub-grade etc. all complete as per drawing, standard and directions of Engineer-in-Charge. (All material including cement supplied by contractor, paver blocks shall confirm to IS: 15658. cloour and shape of paver block shall be as per owner requirements for following thickness of paver blocks				
250	(Thickness - 60 mm)	385	M2	1,980.00	7,62,300.00
251	Supply and installation on terrace, high density polyethylene drinking water circular tank as per IS:12701 and ISI marked including supply and installation of all fittings, cover with suitable locking arrangement, float valve, making necessary holes for inlet, outlet and overflow connection and vent pipe etc. and the base supports for tank including supply of all necessary material all complete as per specifications and directions of Engineer-in-charge. (Sintex or equivalent having valid ISI license) for following capacities.				
252	capacity - 500 litre	2	Nos	18,150.00	36,300.00
253	Supplying, installation, testing and commissioning of Upflow Anaerobic Filter with bleaching tank as per TE Std. Drawing with all necessary accessories like, Upstream inlet CI piping from septic tank, Downstream outlet RCC NP2 class piping up to surface storm water drains, CI pipes for filter chamber, CI valve, RCC pre-cast pit covers, steps, perforated pre-cast slabs etc., inlet chamber, Filter chamber, deluding chamber including earthwork in excavation in all type of soil including soft rock, backfilling with murrum or approved soil arranged by the contractor, disposal of surplus earth etc. complete as per drawings, specification and direction of Engineering-Charge (All materials including cement shall be supplied by the contractor, Brick Class lower than 5.0 shall not be used). - Upto 10 Nos. user	1	Nos	1,04,500.00	1,04,500.00
254	**DEMOLISHING AND DISMANTLING**				
255	**Brickwork**				

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. NOPS INFRASTRUCTURE PRIVATE LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
256	Demolishing BRICKWORK (taking all necessary safety precautions) for all depths below plinth level including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	3,520.00	35,200.00
257	Demolishing BRICKWORK (taking all necessary safety precautions) for all heights above plinth level including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	2,970.00	29,700.00
258	**RCC**				
259	Demolishing RCC WORK (taking all necessary safety precautions) for all depths below plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	4,290.00	42,900.00
260	Demolishing RCC WORK (taking all necessary safety precautions) for all heights above plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	3,960.00	39,600.00
261	**PCC**				
262	Demolishing PLAIN CEMENT CONCRETE work (taking all necessary safety precautions) for all depths below plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc. disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation and backfilling shall be paid separately under relevant items)	10	cum	3,740.00	37,400.00
263	**MISCELLANEOUS ITEMS (REFER TE SPECIFICATION)**				
264	Sand Filling				
265	Supplying and filling approved SAND of specified quality under floors, in foundations, plinths, tank foundations etc. for all depths and heights including cost of sand,royalties,transportation to site for all leads and lifts, including loading, unloading, spreading in layers of loose thickness not exceeding 150 mm,watering,ramming,compacting with mechanical compactors and/or other equipment to the specified levels to achieve 85% relative density as per IS:2720 Part XIV,including preparation of subgrade to the required slope, providing testing apparatus and testing the degree of consolidation all complete as per drawings, specifications and direction of Engineer-in-charge. The rates shall be inclusive of the cost of all labour,material,equipments etc. all complete .	120	cum	2,310.00	2,77,200.00
266	**SAND GRAVEL MIX**				
267	Supplying and filling sand gravel mix (1:1) with approved aggregate below road, RCC pavement, manholes, pits, foundations, bedding of UG piping etc. in layers of 150 mm loose thickness (maximum) including watering, ramming, rolling, compacting to achieve 85% relative density as per IS 2720 Part-XIV, quarrying, royalties, transportation, handling, etc. all complete as per drawings, specifications and directions of Engineer-in- Charge. (The rate shall be inclusive of the cost of all labour, material, equipment etc. all complete)	122	cum	3,740.00	4,56,280.00
268	**GROUTING WITH NON-SHRINKABLE COMPOUND**				
269	Providing and laying manually or by pumping at all positions a ready mix non-shrink cementitious grout of compressive strength specified below for specified works e.g. pipe support, base grouting of rotating equipment and other installation complete in all respects as per scope of work, detailed construction drawings , technical specifications and directions of the Engineer-In-Charge.				
270	Having compressive strength of 30 N/mm2 , Per bag of 25 Kg	100	Bags	6,050.00	6,05,000.00
271	Having compressive strength 45 N/mm2 , Per bag of 25 Kg	20	Bags	6,600.00	1,32,000.00

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272	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains, SS trench of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.	10	SQM	15,950.00	1,59,500.00
273	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, leve and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	17	M3	10,450.00	1,77,650.00
274	Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M-25, of size 1000x450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos. cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of the Engineer-In-Charge.	630	EACH	14,850.00	93,55,500.00
275	**Borewell and recharge well**				
276	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job all complete as per drawing, direction of Engineer -in-charge, in all types of soil :	130	M	3,740.00	4,86,200.00
277	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge.	130	M	2,750.00	3,57,500.00
278	Providing and fixing Bail plug/ Bottom plug of required diameter to the bottom of pipe assembly of tubewell as per IS:2800 (Part-I). :150mm dia	3	EACH	6,600.00	19,800.00
279	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	2,893.00	14,465.00
280	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	2,882.00	14,410.00
281	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	2,871.00	14,355.00
282	Gravel packing in tubewell construction in accordance with IS:4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of the Engineer-In-Charge.	3	M3	2,865.00	8,595.00
283	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS:4270, of reputed & approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size dia having minimum wall thickness 5.00 mm	5	M	3,740.00	18,700.00
284	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	60	M	1,430.00	85,800.00
285	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/ 3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS:8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	25	M	1,980.00	49,500.00
286	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of 150 mm diameter	1	Nos	2,090.00	2,090.00
287	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS:2800 (Part-I), including necessary bolts & nuts of required size complete 150 mm diameter.	1	Nos	93,500.00	93,500.00

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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288	Supply, Installation and commissioning of 1.5HP Borwell Submersible Pump	1	EACH	46,200.00	46,200.00
289	Supply and Installation of 3Cx10Sqmm Copper Flat Cable	200	M	4,070.00	8,14,000.00
290	**LANDSCAPING**				
291	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment).	810	M3	825.00	6,68,250.00
292	Fine dressing of the ground.	2700	M2	38.00	1,02,600.00
293	Providing & laying Selection no. 1 grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden and than rolling the surface with light roller make the surface smoothen and light watering the same maintenance for 30 days or more till the grass establish properly,as per direction of officer in charge	2700	M2	1,155.00	31,18,500.00
294	Conducting topographical ground/land survey in the specified area as shown in the tender drawings by conventional/GPS or any other standard method, covering details of physical features like Rivers, Nallahs, Lakes, Ponds, wells, pits, Forest, Trees, Roads, culverts, transmission lines, telegraph/ telephone and electric poles, underground or any other services, cross drainage works including cross sectional details of nallah etc. including establishing high flood level with source of information, identification of any monument, historical structure, wild life sanctuary in the vicinity, storm water disposal point with levels, cross-section details of nallah, recording spot levels, top level of nearest state highway or National Highway, including providing in tabulation girth wise no. of trees etc as specified, plotting and developing topographical contour maps, showing true north including establishing survey reference stations, key plan etc. including all equipment's, instruments, personnel's, clearing of bushes as per requirement for intervisibility to carry out survey work etc. , complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of drawings/map and supply of electronic files. Note: Survey work shall be carried out by survey agency approved by Contractor and sample spot witness of levels cordinates by PMC, and shall be submitted to PMC/Owner for review.Survey drawing will be provided in A0 size with clear visibility of all the spots/levels/ contoure and Bench marks. Permanaet bench mark will be stabished at site in a 450x450 mm size 600mm high bick masonry piller.	6950	M2	72.00	5,00,400.00
295	**GEO TECHNICAL INVESTIGATION (Z/02/0022)**				
296	Conducting soil investigation with boring including all field tests and laboratory tests, mobilization and demobilization of equipments & personnel etc. for soil investigation for each borehole location. complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of Reports & recommendations and supply of electronic files.	5	Nos	2,03,500.00	10,17,500.00
297	**ANTI-TERMITE TREATMENT**				
298	Supplying chemical emulsion in sealed containers including delivery as specified in the Technical Specifications.				
299	**Chlorpyriphos/ Lindane emulsifiable concentrate of 20%**	200	LITRE	715.00	1,43,000.00
300	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
301	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc. as per Techinal specifications and direction of engineering in charge: With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	80	METRE	286.00	22,880.00
302	Treatment of soil under floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the floor:				
303	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	250	SQM	264.00	66,000.00
304	Supply and installation 60mm dia GI pipe for column support of gate	15	M	1,045.00	15,675.00
305	Supply and installation 100mm dia MS pipe	15	M	1,155.00	325.00

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306	Supply and installation 50mm dia MS pipe	15	M	1,155.00	17,325.00
307	Supply and installation of U-PVC pipes (working pressure 4 kg / cm²) Single socketed pipe 75 mm dia for weep holes	300	M	1,127.00	3,38,100.00
308	**Sub-Total Section C**				**11,40,76,060.00**
309	**SECTION-D [CATHODIC PROTECTION WORKS]**				
310	**Cathodic Protection system**				
311	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning & Monitoring of the temporary cathodic protection [TCP] system using galvanic anodes to protect the external surface of the pipeline against soil-side corrosion for minimum 2 year or till commissioning of permanent CP system whichever is later . All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard drawings and vendor list as attached with this tender and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	2,75,000.00	2,75,000.00
312	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning of permanent cathodic protection system for 40 years. The scope of work also includes post commssoning surveys and repair of coating/ rectification of cathodic protection system based on the post commissioning surveys. In additon to the same, AC Interference study on the pipelines to be performed and mitigation measures takes to the satisfaction of Owner/ CONSULTANT. All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard and vendor list attached and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	6,60,000.00	6,60,000.00
313	**Sub-Total Section D**				**9,35,000.00**
314	**SECTION-E [ELECTRICAL WORKS]**				
315	**ELECTRICAL**				
316	**SWITCH BOARDS / UPS SYSTEM/ PANEL**				
317	Supply , Installation, testing and commissioning of LT Switch-boards, AC UPS system with UPS Distribution board & Ni-Cd Battery banks , distribution boards, cubicles with electrical equipment, misc. electrical panels etc., including transportation from store/yard to site at the place of installation, unpacking, assembly, including mounting and wiring of loose parts supplied by equipment vendor, interconnection of shipping sections and requisite inter-panel wiring between shipping sections, including supply of all wiring materials, installation on foundations or fixing to wall or steel structures, aligning, levelling, grouting, including all labour and materials, as per approved drawings, specifications of this tender and directions of Engineer-in-Charge.				
318	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted MEDB	2	Nos	9,68,000.00	19,36,000.00
319	Supply , erection , termination , earthing and commissioning of wall mounted OLDB as per single line diagram of DT stations	1	Nos	2,14,500.00	2,14,500.00
320	Supply , erection , termination , earthing and commissioning of wall mounted ILDB as per Single line diagram of DT stations	1	Nos	1,37,500.00	1,37,500.00
321	Supply , erection , termination, earthing and commissioning of wall mounted SSDB as per Single line diagram of DT stations	1	Nos	1,37,500.00	1,37,500.00
322	Supply , erection , termination , earthing and commissioning of wall mounted AC DB as per Single line diagram of DT stations	1	Nos	1,37,500.00	1,37,500.00
323	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 6 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of DT stations	1	SET	23,10,000.00	23,10,000.00
324	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for DT stations.	1	SET	40,70,000.00	40,70,000.00

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325	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 1 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of RT stations	1	SET	23,10,000.00	23,10,000.00
326	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for RT stations.	1	SET	40,70,000.00	40,70,000.00
327	Supply , erection , and commissioning of 415 V SFU as per Single line diagram of DT stations including liasioning with SEB as per Tender specification and direction of Engineer- In charge.	1	Nos	2,75,000.00	2,75,000.00
328	**POWER AND CONTROL CABLE**				
329	Supply , laying , termination , erection and testing of 1.1 KV Power and control FRLS PVC Outersheath, XLPE insulated, armored Cables . Outdoor cable will be laid in buried cable trench and in Indoor cable will be laid in Cable trench by provision of Cable tray and supports inside the trench as per PTS - Electrical package P.017110 G 11077 E002				
330	3.5C x 95 sqmm AL FRLS XLPE	300	M	825.00	2,47,500.00
331	3.5C x 70 sqmm AL FRLS XLPE	100	M	775.00	77,500.00
332	3.5C x 50 sqmm AL FRLS XLPE	50	M	753.00	37,650.00
333	3.5C x 25 sqmm AL FRLS XLPE	100	M	**605.00**	60,500.00
334	4C x 16 sqmm CU FRLS XLPE	100	M	1,540.00	1,54,000.00
335	3C x 2.5 sqmm CU FRLS XLPE	170	M	495.00	84,150.00
336	3C x 6 sqmm CU FRLS XLPE	250	M	605.00	1,51,250.00
337	4C x 6 sqmm CU FRLS XLPE	350	M	715.00	2,50,250.00
338	2C x 6 sq.mm CU FRLS XLPE	100	M	566.00	56,600.00
339	2.5 sqmm Cu. Wire	1800	M	396.00	7,12,800.00
340	6 sqmm Cu. Wire	600	M	605.00	3,63,000.00
341	**Earthing & Lightning**				
342	Supply , Installation , testing and comissioning of GI Earth electrodes & Cu plate type earth pit complete with earth pit as per IS 3043, PTS-Electrical package and all necessary material including exacavation of earth pit , filling with charcol and salt , back filling, brick work , connections including all labour and materials as approved drawing and specification of this tender and direction of Engineer-In charge.				
343	**GI Earth Electrodes**				
344	65mm dia x 3000 mm L GI pipe electrode type Earth pit	15	Nos	26,400.00	3,96,000.00
345	**Cu plate Earth Electrode**				

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346	600x600x3mm Cu plate type Earth pit	8	Nos	30,800.00	2,46,400.00
347	**Earth strip and wire**				
348	50x 6 mm GI Flat strip	850	M	660.00	5,61,000.00
349	25 x 6 mm Cu Flat strip	50	M	1,155.00	57,750.00
350	2.5 Sqmm Cu wire	250	M	72.00	18,000.00
351	25 x 6 mm GI Flat strip	200	M	423.00	84,600.00
352	10 Sq.mm earthing cable	250	M	495.00	1,23,750.00
353	GI Earth Bus 50x 6 Sq.mm with all installation assesories	3	Nos	1,595.00	4,785.00
354	Cu. Earth Bus 50x 6 Sq.mm with all installation assesories (in control room)	4	Nos	2,695.00	10,780.00
355	25x3 mm GI Flat for Lightning as well as down conductors for DT station as per overall earthing layout and GGNG-E-20713-3007	80	M	495.00	39,600.00
356	Other lightning assesories like 20mm dia copper rod, hollosphere ,200x200x6mm ms plate ,anchor/fastner ,test links for DT station as per overall earthing layout and GGNG-E-20713-3007	1	LOT	1,37,500.00	1,37,500.00
357	**OUTDOOR Lighting**				
358	Supply , erection , Testing & commissioning of Outdoor area lighting system including with supply of flameproof / weather proof light fixture , pole , junction box and earthing including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender & Overall outdoor lighting layout of DT & RT station and directions of Engineer- In charge.				
359	100W FLP LED Fixture & FLP Junction box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	4	Nos	38,500.00	1,54,000.00
360	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	2	Nos	1,51,800.00	3,03,600.00
361	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in RT Stations.	7	Nos	1,51,800.00	10,62,600.00
362	1x160W FLOOD LED Fixture with weather proof junction box & 9 mtr high pole with all assesories for open area	9	Nos	60,500.00	5,44,500.00
363	1x70 W Solar type Street LED Fixture with weather proof junction box, VRLA Battery (72 hrs backup time) & 9 mtr high pole for street lighting	6	Nos	68,200.00	4,09,200.00
364	1x27 W Post Top Lantran LED Fixture for Gate with weather proof junction box for Gate lamp	2	Nos	20,900.00	41,800.00
365	1x36 W LED industrial fixture suitable to building parapet /wall with all assesories like weather proof junction box/clamp/reducer/	2	Nos	15,400.00	30,800.00
366	**INDOOR Lighting**				
367	Supply, erection, Testing & commissioning of Indoor building area lighting system including with supply of light fixture, point wiring including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender and directions of Engineer- In charge.				

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368	2x20 W LED recessed decorative fixture for control room	5	Nos	15,950.00	79,750.00
369	2x20W LED Industrial Fixture for Electrical room	2	Nos	11,000.00	22,000.00
370	1x40W LED Flameproof Fixture for Battery room	1	Nos	14,850.00	14,850.00
371	2x18W LED Industrial Fixture for Varanda/Toilet/ water cooler area/ Guard room	6	Nos	9,900.00	59,400.00
372	1x36W LED Industrial Fixture	4	Nos	9,900.00	39,600.00
373	2x20 W LED recessed decorative fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) control room.	2	Nos	6,050.00	12,100.00
374	2x20W LED Industrial Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Electrical room	2	Nos	7,150.00	14,300.00
375	1x40W LED Flameproof Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Battery room	1	Nos	27,500.00	27,500.00
376	**Switch socket**				
377	Supply and Installation of single/ three phase Switch socket as per Indoor Illumination layout for DT & RT and PTS-Electrical Package and directions of Engineer-In Charge				
378	5/15A surface type switch socket (1 Ph)	7	Nos	160	1,120.00
379	5A flush type switch socket (1 Ph)	4	Nos	170.00	680.00
380	16A Switch socket (I Ph)	3	Nos	181.00	543.00
381	20A Switch socket for AC (1 Ph)	4	Nos	203.00	812.00
382	Flame proof Junction box for Exhaust fan in Battery room	2	Nos	2,310.00	4,620.00
383	32A Switch socket for welding receptacles (3 Ph)	1	Nos	412.00	412.00
384	Modular switch board	12	Nos	605.00	7,260.00
385	**FANS and Exhaust FAN**				
386	Supply ,Installation and testing of Ceiling Fan and Exhaust fan with louvers including all labours and materials as per Indoor Illumination layout for DT and PTS-Electrical Package and directions of Engineer-In Charge				
387	Ceiling Fan 230V AC 1200 mm sweep	3	Nos	4,180.00	12,540.00
388	450 mm FLP Exhaust Fan for Battery room	2	Nos	26,950.00	53,900.00
389	200 mm Exhaust Fan for Toilet	1	Nos	6,050.00	6,050.00

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390	300 mm Exhaust Fan for Electrical room/ CO2 room	3	Nos	6,710.00	20,130.00
391	**Air conditioning unit**				
392	Supply ,Installation and testing of Five star 1.5 Ton Split AC with outdoor compressor unit including all labours and materials as per Typical Indoor Illumination layout for DT and directions of Engineer-In Charge				
393	Split Air condition Five star 1.5 Ton	4	Nos	82,500.00	3,30,000.00
394	**Hardware and other Accessories**				
395	Supply and Installation of Hardware and other accessories including all labours and materials as per Tender specification PTS-Electrical Package P.017110 G 11077 E002 and directions of Engineer-In Charge				
396	Rubber mat	15	M	27.00	405.00
397	Rubber hand gloves	1	PAIR	1,210.00	1,210.00
398	Warning Marker	1	Nos	1,980.00	1,980.00
399	PVC Conduit with bend ,tee and other required assesories	1	LOT	2,47,500.00	2,47,500.00
400	CAUTION Board & Sock treatment chart	1	Nos	2,090.00	2,090.00
401	Cable route marker as per Standard drawing TE-IN-STD-G-0327	1	LS	71,500.00	71,500.00
402	Fire extingusher and SAND Bucket with Stand	1	SET	35,200.00	35,200.00
403	Ladder type Cable tray - hot dip Galvanized Prefabricated 450 mm wide	55	MTR	2,640.00	1,45,200.00
404	Perforated type Cable tray hot dip Galvanized Prefabricated 450 mm wide	35	MTR.	2,640.00	92,400.00
405	**Cable Glands**				
406	Cable Glands : Flame proof IIA/IIB double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
407	Cables with upto OD 20 mm & above OD 20 mm as per Single line diagram of DT & RT station	1	LOT	1,54,000.00	1,54,000.00
408	Cable Glands : Weather proof double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
409	Cables with upto OD 20 mm to 40 mm as per Single line diagram of DT & RT station	1	LOT	1,04,500.00	1,04,500.00
410	**Sub-Total Section E**				**2,35,83,417.00**
411	**SECTION-F [INSTRUMENTATION WORKS]**				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00
			Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. NOPS INFRASTRUCTURE PRIVATE LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
412	**INSTRUMENTATION**				
413	**SUPPLY**				
414	Supply of Pressure Transmitter along with 2 valve manifolds with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	82,500.00	4,12,500.00
415	Supply of Pressure gauge including high range along with 2 valve manifolds with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	18	Nos	23,100.00	4,15,800.00
416	Supply of Pressure gauge including Low Range along with 2 valve manifolds, gauge saver with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	3	Nos	38,500.00	1,15,500.00
417	Supply of temperature element (RTD) along with flanged thermowell mounted for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	33,000.00	1,65,000.00
418	Supply of Temperature Transmitter with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	7	Nos	57,200.00	4,00,400.00
419	Supply of skin type temperature element (RTD) for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I003), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	2	Nos	33,550.00	67,100.00
420	Supply of Local control panel with all accessories as per Data sheet (P.017110 G 11087 I011), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, SAT of local control panel,supports/ frame fabrication, earthing and screwing plug for unused entries, painting and integration with RTU. Termination of all Other panel SCADA hard wired signal including RS-485 signals through LCP for RTU/SCADA by Bidder. 1. Digital Barriers 2. Analog Barries 3. Relays 4. three poisition selector switch 5. LED indication lamps 6. Push buttons 7. terminal blocks 8. internal wiring 9. MCBs 10. Door switches 11. cooling Fan 12. LED lights	2	Nos	10,45,000.00	20,90,000.00
421	Supply of Ex-proof junction box with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, iincluding Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.	4	Nos	41,800.00	1,67,200.00
422	Supply of Corrosion Monitoring system with corrosion coupon, Corrosion probe, transmitter and digital indicator (mounted in LCP) as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. NOPS INFRASTRUCTURE PRIVATE LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
423	Corrosion coupon along with accessories.	2	Nos	1,04,500.00	2,09,000.00
424	Corrosion probe along with transmitter, digital indicator, barriers and accessories.	2	Nos	6,05,000.00	12,10,000.00
425	Supply of Conventional Type Microprocessor based fire detection system along with smoke detector, heat detector, cabinet, manual call point, Independent 24 Hrs battery backup with 15 min in alarm state, repeater panel and Electrical Operated Siren, exit signs and cables fromsensor ,MCP, siren, hooter to controller as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
426	Controller along with cabinet along with cabling	1	Nos	2,47,500.00	2,47,500.00
427	Multisensor (smoke & heat)	10	Nos	9,350.00	93,500.00
428	WP IP 65 Manual call points	6	Nos	33,000.00	1,98,000.00
429	Ex Proof and WP IP 65 Manual call point	1	Nos	38,500.00	38,500.00
430	WP Hooter & Flasher	1	Nos	52,800.00	52,800.00
431	Repeater panel	1	Nos	1,37,500.00	1,37,500.00
432	Exist sign	6	Nos	23,650.00	1,41,900.00
433	Electrical siren Exd	1	Nos	63,800.00	63,800.00
434	24 Hrs battery backup	1	Nos	11,880.00	11,880.00
435	Supply of Conventional type gas detection system along with controller, ex proof point gas detectors, beacon hooter, flasher, , cabinet, portable gas detector, calibration kit, alignment kit as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
436	Controller with cabinet	1	Nos	6,65,500.00	6,65,500.00
437	Point gas detectors	12	Nos	2,47,500.00	29,70,000.00
438	Panel Mounted hooter	2	Nos	6,82,000.00	13,64,000.00
439	Dual tone Hooter & Beacon Ex"d" with reset push button	2	Nos	38,500.00	77,000.00
440	Portable gas detecotrs	1	Nos	93,500.00	93,500.00
441	Calibration kit	1	Nos	46,500.00	46,500.00
442	Ex d Junction Box	2	Nos	38,500.00	77,000.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. NOPS INFRASTRUCTURE PRIVATE LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
443	Supply of Universal type Hand Held Configurators for transmitters with carrying case, rechargeable batteries (one working and one standby), and battery charger as per Data sheet,PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work	1	Nos	8,80,000.00	8,80,000.00
444	Supply of Instrumentation signal cable, control cable, communication cable/LAN cable, Power cables along with all sizes cable glands (WP & Exd), PVC hood, lug, ferrule, etc including Cable laying (buried as well as tray) along with termination, glanding, meggering and loop checking including supply of ferrule, lugs, cable tie, cable clamp, cable marker etc. as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.				
445	1Px 1.5mm2	500	MTRS	225.00	1,12,500.00
446	12Px 0.5mm2	900	MTRS	770.00	6,93,000.00
447	1Qx1.5mm2	30	MTRS	374.00	11,220.00
448	12Tx1.5mm2	200	MTRS	1,072.00	2,14,400.00
449	1Tx1.5mm2	180	MTRS	357.00	64,260.00
450	6Px0.5mm2	200	MTRS	715.00	1,43,000.00
451	2Px1.5mm2	200	MTRS	495.00	99,000.00
452	Cat 5 (LAN)	160	MTRS	275.00	44,000.00
453	3C x 2.5mm2	240	MTRS	1,045.00	2,50,800.00
454	Supply & laying of Instruments cable tray with tray cover (Branch Cable tray (50mm x 50mm), Main cable tray 900 mm, cable tray 300mm, cable tray 150 mm.) as per requirement, instruments/ PGD, CCTV/ mounting poles, instrument protection sun sheds, angles, channels, MS plates & all the erection materials and as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including installation of support, cable clamping, installation of tray cover and support painting.	1	LS	11,55,000.00	11,55,000.00
455	Supply , installation & laying of tubes and fittings as per requirement and as per PTS-Instrumentation with appendices and Scope of Work C&I. SS 316L TEE (1/2", Class 3000#, Screwed, NPTF, Seamless) ,SS316L GLOBE/BALL VALVE (1/2", Class 800#, Screwed, NPTF, Seamless), SS316L PLUG (1/2", Screwed, NPTM, Hex head, class 3000#), SS316L PIPE NIPPLE (½" NPTM, seamless, schedule #160) Length of the pipe nipple as per requirement, SS316L MALE CONNECTOR (1/2" OD x 1/2" NPTM), SS316L FEMALE CONNECTOR (1/2"OD x 1/2" NPTF), SS316L UNION (1/2" OD), SS316L TUBE (1/2" OD x 0.065" WT), SS316L TUBE (1/4" OD x 0.035" WT)	1	LS	15,95,000.00	15,95,000.00
456	Supply of mandatory spares as per Mandatory Spare **(P.017110 G 11075 I001)**	1	LS	3,85,000.00	3,85,000.00
457	**AT Bokaro** Installation of metering skids, metering cabinet under the supervision of skid supplier, cable laying and terminal of cable from skid junction box to metering system cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	4,95,000.00	4,95,000.00
458	**AT Bokaro** Installation of gas chromatograph skid, analyser & controller cabinet under the supervision of skid supplier, cable laying and terminal of cable from analyser cabinet to controller cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	4,95,000.00	4,95,000.00
459	**AT Bokaro** Installation of H2S & Moisture analyser skids, cabinet under the supervision of skid supplier, laying and terminal of cable from skid field mounted cabinet to LCP/RTU. Including supply of all the required erection, fabrication and civil materials.	1	LS	2,47,500.00	2,47,500.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. NOPS INFRASTRUCTURE PRIVATE LIMITED

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
460	**Sub-Total Section F**				**1,84,16,060.00**
461	**SECTION-G [TELECOM WORKS]**				
462	**AT SV 01** Supply of Input out puts cards in existing Remote Terminal unit along with internal wiring at site and configruation of new parameters in existing RTU as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, Installation of Input out puts cards in existing Remote Terminal unit along with internal wiring at site, interfacing with LCP and configuration of new parameters in existing RTU, as per Scope of Work at SV 01				
463	32 channels digital input cards	1	Nos	96,800.00	96,800.00
464	16 Channel digital output cards	1	Nos	91,300.00	91,300.00
465	12 channel Analog input cards	1	Nos	85,800.00	85,800.00
466	Supply Telecommunication system, SDH equipment STM-4 Based SDH Cabinet of (2000H x 800W x 800W along with 100 mm base frame) as per below configuration: - 2*STM-4 + 2*STM-1 + 8FE ports as per PTS-Telecommunication system (P.017110 G 11077 I002), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including erection, testing, integration with existing NMS at Noida, Commissioning and integration with existing telecom system at SV 01 additional SFP of L4.2 for SV 01 connectivity	1	Nos	3,85,000.00	3,85,000.00
467	Supply of CCTV-IP based Fixed colour camera and PTZ colour camera along with power cable, communication cable at each station as per PTS-Telecommunication system (P.017110 G 11077 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work., including erection, testing, integration with existing VMS at Noida, Commissioning and integration with existing telecom system at SV 01				
468	Fixed Camera WP IP65	1	Nos	49,500.00	49,500.00
469	PTZ camera WP IP65	1	Nos	38,500.00	38,500.00
470	Supply of one Analog phones control room, one number in guard room and one number WP IP66 in field safe area as per PTS-Telecommunication system (P.017110 G 11077 I002) , PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work				
471	Analog Phone	2	Nos	3,520.00	7,040.00
472	Analog Phone Ex Proof WP IP 65	1	Nos	13,200.00	13,200.00
473	FXO cards	1	Nos	30,800.00	30,800.00
474	FXS	1	Nos	19,800.00	19,800.00
475	Five pair armoured telephone cable, size 0.5mm2	100	MTR	110.00	11,000.00
476	**AT Bokaro** Free issue RTU by GAIL: Transportation from Gail store to site location, installation, cabling from LCP to RTU, commissioning etc. Erection, installation of RTU inside the station control room including supply of all the required erection materials, fabrication and civil works	1	LS	93,500.00	93,500.00
477	**Sub-Total Section G**				**9,22,240.00**
478	Total of Section A + B + C + D + E + F + G				**38,57,42,842.00**

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
479	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Total of Section A + B + C + D + E + F + G above	18	percentage		6,94,33,711.56
480	Rate of Extended Stay Compensation per month beyond the time schedule and grace period mentioned in Bidding document for reasons solely attribute to Owner (exclusive of GST) Notes:- 1;- Extended Stay Compensation shall be loaded on the quoted price as per evaluation methodology. 2;- In case, no rate for extended stay compensation is stipulated, it will be considered that extended stay compensation is not required by the Bidder and the rates quoted by them shall be valid till completion of works in all respects.	1	Nos		27,50,000.00
481	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Extended Stay Compensation at Sl. No. 480 above	18	percentage		4,95,000.00
	Grand Total				45,84,21,553.56

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Checked

Approved

TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**			**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**
M/s. POTALIYA ENTERPRISES					
S. NO.	**WORK DESCRIPTION AND SUPPLY**	**UNIT**	**QTY**	**PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR**	
				UNIT RATE	**TOTAL RATE**
1	**SECTION-A (MAIN LINE WORKS)**				
2	**CH.0.00 KM to CH.23.436 KM**				
3	**MAINLINE, PIPING AND MECHNICAL**				
4	**PIPELINE LAYING / INSTALLATION** Laying/ installation of coated line pipe, associated fittings and accessories, etc. as per specifications, drawings, other provisions of Contract and instructions of Engineer-in-Charge, including but not limited to carrying out the following: "Receiving and taking-over", handling, loading, transportation and unloading of Owner supplied coated and bare line pipes and other Free Issue Materials from Contractor's own stock-yard to Work site including stringing on the pipeline Right-of-Use (ROU), Arrangement of all additional land required for Contractor's storage, Performing the additional survey wherein survey data is not sufficient in the opinion of Contractor, arrangement of working RoU if RoU width is not sufficient for equipment/ vehicle movement etc., access for construction (other than Owner provided ROU; Developing necessary access way to the worksite, including earth filling, levelling, etc.; supply of all materials (except Owner supplied materials), supply of all materials, consumables, equipment, labour, etc.; fabrication, Staking and installation of construction markers, clearing, grubbing, grading (as required) of Right of Use; clearing and grading of ROU; Cutting/ uprooting of shrubs, plants, vegetation within ROU; , Trenching to all depths and to a width to accommodate the pipeline with optical fiber cable (inside HDPE Duct) by excavation in all types of soil (in case of hard rock, additional payment for hard rock breaking will be paid as per separate SOR line item), including additional trenching for seismic and other areas as specified,(Rate for laying of optical fibre cable and HDPE Duct not be included here and same to be quoted against separate SOR item); Carrying out repairs of pipe and coating defects not attributable to Owner; Thorough internal cleaning of all pipes by suitable methods to remove debris, shots, grits etc.; Stringing of line pipes along ROU including providing straw bags, soft padding/sand padding; Aligning, cold field bending, cutting and beveling (as required) of pipes for welding and field adjustments, NDT & NDT of re-beveled area, welding, carrying out destructive & non- destructive testing of welds required as per approved NDT specifications (including radiography) and providing all requisite equipment, labour, supervision, materials, films, consumables etc.; carrying out repairs of weld joints as required, carrying out re- radiography and other non-destructive tests on repaired joints, etc.; Installation of carrier pipe including concrete coated pipes (wherever required),				
5	(Concrete Coating on pipes, covered separately) at all crossings including roads/ canals/ nala/ water crossings etc. (supply and installation of casing pipe by open cut or by Jacking/ boaring method covered separately) including pre-testing as required; Carrying out installation of carrier pipe in the casing pipe at cased crossings; Coating of all field weld joints, long radius bends (fabrication of Cold field bends covered here and fabrication of 6D bends by induction heating covered separately), buried fittings etc.; Supply & Installation of warning tape along the entire length of Pipeline including Crossing. Lowering the pipelines in trench, providing required padding over and around the pipeline with sand/graded material (in rocky areas), backfilling with available approved excavated material and/or other suitable soil (supply and providing of soft soil for pre & post padding in Rocky area); Supply and installation of slope breaker as per specifications and drawings in steep slope areas, wherever required; Carrying out hydrostatic testing including air cleaning, flushing, filling, gauging, pressurization of complete pipeline in various test sections as approved by Engineer-In-Charge to the specified test pressure, providing all equipment, pumps, fittings, instruments, dead weight tester, all types of pigs etc., and services, supervision, labour, consumables, arranging water required for hydrostatic testing including supply of corrosion inhibitor, air, etc. as required, locating of leaks and rectification of defects attributable to Contractor, re-testing after rectification, successful completion of hydro-testing of pipeline (De-watering covered else where in the SOR); including all tie-in(s) with the pipeline/ piping installed by others including cutting of test header, re- beveling as required; Carrying out all temporary, ancillary, auxiliary works and all incidental works required to make the pipeline ready for pre- commissioning; Carrying out EGP for the entire stretch of completed pipeline, Repair of defects recorded during EGP/gauge plate run or otherwise including cutting, beveling, welding, NDT, field joint coating etc.; as applicable, Final clean-up and restoration of right of use including obtaining NOC from respective statutory authorities as required and disposal of debris and returning all surplus material to designated disposal areas/storage yard, as directed by Engineer-In-Charge; Restoration of land, facilities and boundary wall etc. at associated facilities dismantled/damaged by the Contractor during construction; Obtaining work permits/ NOC from various statutory authorities having jurisdiction and complying with all stipulation/conditions/recommendation of the said authorities; Preparation of as-built drawings, pipe-book and other records. SOR shall be read in conjunction with Project drawings, scope of work, specifications, standards and other provisions of contract document. The work includes the Survey data & site preparation, Stringing/Chainges in direction, Beveling of pipe element, Welding Procedure Qualification & Welders Qualification, Welding of pipe element, Inspection & testing of production welds, Field joint coating, controlled blasting, chiseling, etc., Material hand over & material handling, Lowering-in & ballasting, All crossings except HDD as mentioned in Crossing List (including installation of carrier pipe inside the Casing at cased crossing) , Backfilling (for all depths in all types of soil, soft /hard rock) , including trench padding with sand, graded earth in rocky areas & rock shield(if required as per specs) reinstatement (restoration) and preparation of As-built Alignment & Crossing drawings.				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**			**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**
M/s. POTALIYA ENTERPRISES					
S. NO.	**WORK DESCRIPTION AND SUPPLY**	**UNIT**	**QTY**	**PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR**	
6	All above works shall be executed in accordance with scope of work, GTS, PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. 1. Supply and Installation of OFC and HDPE Ducts along the entire pipeline route, adjacent to the new pipeline, along with all required accessories, fittings and associated items, is covered separately in the SOR. All above works for buried pipeline (including hook-up pipeline from Tap Off Point inside ONGC GCS, Bokaro upto proposed plot for GAIL DT), as per following details :				
7	ND12", API5L X70 - 6.4 mm	6500	M	4,000.00	2,60,00,000.00
8	ND12", API5L X70 - 7.1 mm	15850	M	4,200.00	6,65,70,000.00
9	ND12", API5L X70 - 8.7 mm	150	M	4,500.00	6,75,000.00
10	**Concrete slabs (Mechanical Protection) as per technical specifications** Supply, fabrication and installation of reinforced concrete weights. Reinforced steel size should be 8 mm. top and bottom at a rate of 200 mm c/c of precasted RCC 1:2:4 on pipeline of wall thickness of 75 mm thick and size as per specifications & Standard drawings and instructions of Owner/ Owner's representative including supply of consumables, materials, equipment, labor, supervision, all associated civil works.	382	M	1,000.00	3,82,000.00
11	**Continuous Concrete Coating** Supply of all consumables and materials, equipments, manpower, submission of application procedure with calculations for anti-buoyancy, design mix procedure qualification and application of continuous concrete weight coating thickness mentioned below (higher also, in case design requirements) on pipeline of all thickness, concrete weight coating of the field joints thereof, and performing all works as per specifications and instructions of Owner/Owner's representative and other provisions of CONTRACT DOCUMENT.				
12	35 mm thick	12	M	3,500.00	42,000.00
13	50 mm thick	12	M	4,000.00	48,000.00
14	**GEO TEXTILE BAGS FOR ANTI-BUOYANCY**				
15	Additional works over and above item no. 4 to 9 for design, manufacture and supply of Non-biodegradable geo-textile bags and installation of geo-textile bags duly filled with gravel/ stone ballast on pipelines of all wall thicknesses for anti-buoyancy, drawings, scope of work and instructions of Engineer-in-Charge and other provisions of the Contract document. Note: This item shall be applicable for Some crossings as per instructions of Engineer-incharge.				
16	ND12" (for all thicknesses)	12	M	2,000.00	24,000.00
17	**Permanent Markers** Supply, fabrication and installation of following types of permanent markers along the pipeline route including all associated civil works such as excavation in all types of soil, construction of pedestals and grouting with concrete, clearing, supply & application of approved color and quality of primer and paint, stencil letter cutting for numbers, direction, chainage, etc. restoration of area to original condition and performing all works as per drawings, specifications and instruction of Owner/Owner's Representative.				
18	Pipeline Warning Signs	35	Nos	8,000.00	2,80,000.00
19	Right-of-way boundary markers	94	Nos	1,500.00	1,41,000.00
20	Kilometer Markers	19	Nos	8,000.00	1,52,000.00
21	Aerial Markers	4	Nos	8,000.00	32,000.00
22	Navigable Waterway Markers	8	Nos	8,000.00	64,000.00
23	Directional Markers	297	Nos	8,000.00	23,76,000.00
	Repair of Defects in Pipe Coating (Attributable to OWNER)				

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				Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**

M/s. POTALIYA ENTERPRISES

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25	**Repair of Line Pipe Coating:** Supply of all coating repair materials as per the requirements of the relevant specifications, supply of all consumables, utilities, equipment, and all manpower required, pipe cleaning and surface preparation, repairing of coating defects (resulting in holiday in coating) and testing including all handling, transportation, etc. for line pipes, performing all works necessary for the completion of the works strictly in accordance with the relevant specifications and instructions of OWNER.				
26	**Repair of Holidays in Coating**	40	Nos	5,000.00	2,00,000.00
27	Repair of Cosmetic Defects in Coating: Description of same as in 25 above, but for repair of cosmetic defects in coating.	80	m2	3,000.00	2,40,000.00
28	Repair of Defects in Line Pipes				
29	Repair of OWNER supplied pipes of all wall thicknesses, recorded at the time of taking-over by CONTRACTOR at all places of work.				
30	Cutting and rebevelling	25	Nos	500.00	12,500.00
31	Jack out method	25	Nos	500.00	12,500.00
32	All works for locating burst (occurred during hydrostatic testing and tightness test attributable to Owner issued materials) including detecting burst, necessary repairing/replacing defective pipe lengths, including cutting out and removing the defective pipe, pretesting the replacement pipe, welding of replacement pipe into mainline and NDT of welding, repair and re-testing of defective welds, coating of welded joints, cleanup, retesting including providing all labor, materials, consumables and inputs other than OWNER supplied materials and performing all works as per drawings, specifications and directions of Owner/ Owner's representative. In case of pinhole leaks not easily detectable all works for locating leak (occurred during mechanical resistance test and tightness test attributable to Owner issued materials) including detecting leak, The Payment will be made as per actual efforts and based on Equipment and manpower Rate provided in SCC . Further replacement & retesting will be paid as above.	2	Per burst	25,000.00	50,000.00
33	**LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER) (FOR TERMINAL PIPING)** **LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER DUE TO FIM)** All works for leak/burst (occurring during hydrostatic testing) by necessary repair/replacement of defective pipe length, including cutting and removing out defective pipes, welding, NDT of welds, repair and re-testing of defective welds, painting of welded joints, clean-up, re hydro testing of the pipe segment including providing all necessary equipment, labour, materials, consumables and inputs other than Owner supplied materials and performing all works as per drawings, scope of work, specifications, standards enclosed with the Contract and directions of Engineer-in-Charge. Note: 1. This rate shall be applicable for manufacturing defects in Company supplied materials only.	18	Inch-meter	30,000.00	5,40,000.00
34	**IDLE TIME PRESERVATION OF PIPELINE** Preservation of complete pipeline and associated facilities and its maintenance including supply of all consumables, all equipment, man- power, etc., complete as per the requirements of specifications, scope of work, standards, other provisions of Contract document and instructions of Engineer-in- Charge. By filling and pressurizing with nitrogen including supply and maintenance of nitrogen as per following details:				
35	Pipe OD - 12 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - 3 MONTH	23800	M	22.00	5,23,600.00
36	Pipe OD - 12 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - FOR EVERY ADDITIONAL MONTH BEYOND INITIAL 3 MONTHS	23800	M	10.00	2,38,000.00
37	PRE-COMMISSIONING FOR NATURAL GAS PIPELINES SYSTEM, Carrying out pre-commissioning activities and pre-commissioning checks to the specified acceptance criteria, making the entire pipeline system ready for commissioning (It includes cleaning including magnetic cleaning, Electrical Geometrical Pigging survey, dewatering, swabbing,, pre-drying activity, Golden-tie ins connecting the stations),, supply of all equipment, man-power, consumables, including all type of pigs and required quantity of nitrogen, materials for all temporary works and performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.				

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38	Pipe OD - 12 INCH	23800	M	70.00	16,66,000.00
39	**Commissioning Assistance**				
40	**OVERALL COMMISSIONING OF ENTIRE PIPELINE SYSTEM** Overall commissioning including system checks, inertisation (as required) and charging of entire pipeline system, including all stations and all associated facilities including notifying the Company that the pipeline system is ready for commissioning; Review of status jointly with the Company and obtaining final clearance for start of commissioning; Development and submission of commissioning procedures, obtaining Company approval thereupon, carrying out overall commissioning of the total pipeline system including all facilities and all necessary coordination/ liaison with other Contractor(s) operations; Carrying out commissioning; Supply of all equipment like Nitrogen vapourisers (as required), along with all piping and instruments, temporary venting/ flaring/draining facilities as applicable, man-power, consumables including pigs and required quantity of Nitrogen (as required); Performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.				
41	Pipe OD - 12 INCH	23800	M	30.00	7,14,000.00
42	PIPELINE INFORMATION MANAGEMENT SYSTEM Providing pipeline information management system using web based software for monitoring pipeline construction progress and providing all "As Built" data & drawings for entire length of pipeline as per specifications enclosed with the tender document.	1	LS	10,00,000.00	10,00,000.00
43	VIDEO FILM & PHOTOGRAPHY OF CONSTRUCTION ACTIVITIES Preparation of high resolution video films with audio commentary and Industrial photography covering all aspects/activities of pipeline construction annotated as required, conversion of same to video DVD/Blue Ray format, submitting three (3) sets of the same as per details in scope of work document	1	LS	1,50,000.00	1,50,000.00
44	**FABRICATION OF LR BENDS :**				
45	Fabrication of 6D bend / LR (Induction) bends as per the relevant standard & Specification attached with the tender document from free issue linepipes (mother pipe) including but not limited to the following: "Receiving and taking over of free issue linepipes" from GAIL Dump Yard location as mentioned in Scope of Work, carrying out inspection of line pipe at the time of receive taking over in the presence of Company representative, carrying out repair of pipe defects attributable to Contractor after taking over, including supply of consumables & equipments; handling, hauling, transportation and loading/unloading required to transport the mother pipes between place of issue, LR bend fabricator/ manufacturer, intermediate storage as required, and final delivery of fabricated LR Bends to the worksite(s), as per requirement, Manufacturing/ fabricating of LR Bends, as per project requirements and Specifications. LR bends exact angle(s) shall be as per pipeline alignment. Note:- 1. Rate for repairing of defects in linepipes identified and recorded at the time of receiving & taking over i.e. defects attributable to Company shall be quoted separately in the applicable items of the SOR. 2.Loading of Pipe into installation contractor trailer shall be carried out by the GAIL Dumpyard maintenance agency already engaged by the Company.				
46	Bare Pipe ND12", API5L X70 - 7.1 mm	18	Nos	50,000.00	9,00,000.00
47	Bare Pipe ND12", API5L X70 - 8.7 mm	22	Nos	60,000.00	13,20,000.00
48	**SUPPLY AND INSTALLATION OF CASING PIPE & 6 INCH CS CONDUIT:** Supply and installation of casing pipe and 6 inch CS conduit for OFC by jacking / boring or open cut for rail, road or canal crossings wherever required in all types of soils and terrain separately for carrier pipes and fibre optic cable inside HDPE duct, supply of casing pipes and all other Contractor supplied materials viz. casing insulators and casing end seals as per enclosed drawing, materials for casing vents and drains, etc. including transportation, supply of all other materials, equipments, consumables, man-power, welding including visual inspection of all weld joints, installation of casing insulators, end seals, vents and drain-off pipes, backfilling and restoration as original of the facility crossed and performing all works as per drawings, specifications including PTS and GTS and instructions of Engineer-in Charge and provisions of Contract document.				

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49	Supply and installation of Casing pipe by Boring / Jacking as per item no. 48 (Other than Railway Crossings) Casing Pipe Details: (Pipe 18" , 6.4 mm Thick, API 5L GR.B)	100	M	54,000.00	54,00,000.00
50	Supply and installation of 6 inch CS Conduit by Boring/Jacking as per item no. 48 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	100	M	10,000.00	10,00,000.00
51	Supply and installation of Casing pipe by open cut as per item no. 48 Casing Pipe Details: (Pipe 18" , 6.4 mm Thick, API 5L GR.B)	100	M	15,000.00	15,00,000.00
52	Supply and installation of 6 inch CS Conduit by open cut as per item no. 48 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	100	M	6,000.00	6,00,000.00
53	**HDD CROSSING**				
54	**Generalities**				
55	Topographic / Bathymetry, Geotech Investigation and Hydrological data collection				
56	Site preparation				
57	Design & stress calculations as per requirement				
58	Material hand-over and material handling				
59	Site reinstatement				
60	Final dossier including all notes & calculations as required in the specification				
61	**Installation of 6 inch CS Conduit**				
62	Teletransmission--Separate Drilling for 6 inch CS Conduit for OFC installation				
63	Installation of HDPE duct & OFC cable inside 6 inch CS conduit				
64	Drilling & Pulling of 6 inch CS Conduit shall be done before mainline HDD.				
65	**Pipeline string**				
66	Beveling & welding				

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67	Inspection & testing of welds				
68	Field joint coating				
69	Temporary support (roller)				
70	Control of pipeline string				
71	Hydrotesting & leak test				
72	**Drilling operation**				
73	Earthwork entry / exit points including grading erection of embankment etc..				
74	Supply & clearing out of all material needed for drilling				
75	Drilling of washer pipe, reaming & cleaning of drill opening, supply and preparation of bentonite				
76	Pull back of the pipe string				
77	Disposal of surplus of soil & bentonite				
78	Control of the integrity of the coating				
79	**Work at entry point**				
80	Changes in direction				
81	Beveling & welding				
82	Inspection & testing of welds				
83	Field joint coating & coating of all bare section of pipe				
84	Earthwork				
85	Lowering-in				
86	backfilling as required				
87	**Work at exit point**				

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88	Changes in direction				
89	Beveling & welding				
90	Inspection & testing of welds				
91	Field joint coating & coating of all bare section of pipe				
92	Earthwork				
93	Lowering-in				
94	backfilling as required				
95	Complete work for the water/ Road/ Rail crossings, including taking over and handling of linepipes from Contractor Storage Yard to worksite, Arrangement of all additional land required for Contractor's storage, fabrication, access for construction; construction design calculation and engineering of the crossing, mobilization and demobilization at site(s), supply of all materials as per "Scope of Supply" and all consumables, equipment, manpower and other resources, and acquiring the required land for site preparations, and execution of, but not limited to, the following works in accordance with specifications, drawings, and as per provisions of the Contract document and instructions of the Company/ Engineer-in- Charge: Carry out all surveys required for collecting data relevant to design and construction of the crossing, preparation of all necessary construction drawings for Company's approval as per the provisions of the Contractor document, Preparation of detailed construction method statement and calculations including Scour Depth calculations for river/ canal crossings, Strings preparation including welding, 100% Radiography of welds, NDT of welds and re-beveled areas, radiography, weld repair and re-test, pre-testing of completed string, corrosion coating of field joints with Dirax or equivalent, inspection of corrosion coating and repair of defects, Preconstruction surveys and collection of all necessary data, Installation of pipeline and CS conduit (6 Inch CS Conduit shall be installed through Seperate Drilling) , horizontal directional drilling to the correct profile as per approved drawings and specification, Post-installation hydrotest including leaks and repair of defects and retesting, etc. for defects attributed to Contractor's faulty work, Supply, fabrication and construction of protective fencing as required, Hydrotesting, Supply, fabrication and erection of pipeline markers, Restoration and clean-up etc., Preparation of as-built drawings and other records etc., All other works not specifically listed herein, but required as per specifications, drawings, provision of contract document, calculations, and construction method statements, leading to successful completion of works.				
96	Linepipe details:- (Pipe 12" dia, Wall Thickness: 7.1 mm, Pipe Grade: API 5L GR.X-70 PSL 2, External Coating: 3LPE) CS Conduit details: (Pipe 6" dia, 6.4mm Thick, API 5L GR.B) Note: 1. CS Conduit shall be supplied by the Contractor. Radiography & Hydrostatic testing is not required to be done for CS Conduit. (6 Inch CS Conduit shall be installed through Seperate Drilling) Contractor shall quote accordingly. 2. The rate shall be applicable for the drilled length of the HDDs.	1300	M	40,000	5,20,00,000.00
97	All above works shall be executed in accordance with scope of work, GTS,PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. This line item is applicable for HDD crossing mentioned in the Crossing List with prior approval of Engineer - In-Charge during Construction.				
98	**SUPPLY & INSTALLATION OF OPTICAL FIBBE CABLE AND HDPE DUCT**				
99	Suppy of 24 Fibre Composite armoured Optical Fibre Cable drum (6 fibre G-655 & 18 fibre G-652) of 4 km +/-5% Cable drum length with fiber terminal closure, inspection chamber, electronic route marker all along pipeline route, Two number electronic locater as per PTS-Optical Fibre cable and Scope of Work C&I along with all required accessories and fitments not mentioned seperately.	26200	M	100	26,20,000.00

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ANNEXURE - I

BIDDER'S PRICE EVALUATION

LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A

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100	Inspection/Jointing Chamber (fabricated or readymade)	8	Nos	16,000	1,28,000.00
101	Blowing Pit (fabricated or readymade)	25	Nos	14,000	3,50,000.00
102	Supply of jointing closure 24 Fiber, 2 way including all accessories (3M, Siemens, Reychem make only)	10	Nos	16,000	1,60,000.00
103	Supply of End to End OFC termination of wall mounted FTC with pig tails other accessories for termination of OFC - 24 Fibre in the Telecom Room at Bokaro & SV1	2	Nos	1,50,000	3,00,000.00
104	Electronic marker	8	Nos	6,000.00	48,000.00
105	Electronic Locator	1	Nos	4,50,000.00	4,50,000.00
106	Supply of 50mm OD permanently lubricated HDPE telecom duct along with all the required accessories as per PTS-Optical Fibre cable and Scope of Work C&I	26700	M	100.00	26,70,000.00
107	Laying of HDPE Duct : Laying of 50mm HDPE Ducts in same pipeline trench direct buried, or inside 6 inch CS conduit at various crossings as per Specification in all type of soil & terrain, excavated as required, padding, backfilling, etc. including supply of accessories required for HDPE Duct installation, including plastic couplers, end plugs, cable sealing plugs, end caps, etc. suitable & sufficient for above supplied ducts, cleaning and sealing of ducts at the end laid drum lengths, preparation and supply of cable blowing pit at each Km jointing of HDPE duct, testing of HDPE Duct and accessories after laying preparation of report and final drawing and documents as per specification, joint location marking, erection accessories, as-built, etc.	22500	M	300.00	67,50,000.00
108	Blowing of Optical Fibre Cable inside HDPE Duct : All activities pertaining to Blowing of Optical Fibre Cable in same pipeline trench directly (after testing drum at site), inside HDPE duct along the pipeline and at crossing, sealing using all materials required as per specification	22500	M	50.00	11,25,000.00
109	Installation of FTC & Wire mesh, termination of OFC on FTC / DDF inside telecom room, splicing with steet fibre, fibre test, OTDR test, power testing of laid OFC, identification of fault, rectification, earthing, final testing and commissioning, preparation of reports, etc. work complete in all respect with all necessary accessories for all location till final Handing Over and Taking Over by Owner of laid OFC.	1	LS	1,00,000.00	1,00,000.00
110	**TRANSPORTATION OF COATED AND BARE LINEPIPES FROM GAIL DUMPYARDS (ANY LOCATIONIN INDIA) TO CONTRACTOR STORAGE YARD:**				
111	"Receiving and taking over" of "free issue" Linepipes from GAIL Dump Yard location (any location in India); Carrying out inspection of Linepipes at the time of receiving and taking-over, recording of pipe & coating defects at the time of taking over in the presence of Company's representative, carrying out repair of coating defects & pipe defects attributable to Company; including supply of materials, consumables & equipments; handling, hauling and transportation from designated place of issue to Contractor Storage Yard; unloading and stacking of the linepipes at Contractor Storage Yard; including arranging all equipments, trailers, trucks & manpower; all works as per Scope of Work, drawings, PTS, GTS and other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, Provision of Contract & instructions of Engineer InCharge.				

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112	Linepipe Details:- Coated and Bare Line Pipe 12" diameter API 5L Gr. X-70 PSL-2 Wall Thickness - 6,4mm / 7.1mm / 8.7 mm External Coating - 3LPE, Internal Coating - Liquid Epoxy 1) Loading of Pipes into Installation contractor's trailer shall be carried out by the contractor. 2) Development & Maintenance of Contractor Storage Yard adequate to store the linepipes including arrangement of all Lifting & Handling equipment at Contractor's Storage Yard shall be done by the Contractor. Rate for the same shall be quoted in applicable items. 3) Rate for repairing of coating defects in linepipes identified and recorded at the time of receiving & taking over i.e. coating-defects attributable to Company shall be included in this item. 4) Rate for repairing of pipe-defects identified and recorded at the time of receiving & taking over i.e. pipe-defects attributable to Company shall be quoted separately in the applicable items of the SOR. 5) Transportation of line pipe from Contractor's Storage Yard to work site is included in SOR item 1 above, No separate payment will be applicable for the same.	220000	Ton-Km	30.00	66,00,000.00
113	**TRANSPORTATION OF FREE ISSUE PIPING ITEMS (OTHER THAN LINE PIPE) FROM GAIL STORAGE YARDS (ANY LOCATION IN INDIA) TO CONTRACTORS YARD / WORKSITE(S) :** "Receiving and taking-over", handling, lifting, loading, transportation and unloading of Company supplied "free-issue materials" (Other than line pipe) viz. Metering Filtering and PRS Skid, Scrapper Launcher/ Receiver & accessories, Valves with or without Actuators, Insulation Joints, Flow Tee, Pig Signallers, fittings, flanges etc. from GAIL Storage yards location (any location in India) to Contractor's Storage Yard / work-site(s). Note:- 1) Location of GAIL Storage Yard shall be anywhere in India. Contractor shall quote accordingly. 2) Transportation of FIM from Contractor's Storage Yard to work site, is included in SOR item 121 below, No separate payment will be applicable for the same.	15000	Ton-Km	30.00	4,50,000.00
114	**DEVELOPMENT OF CONTRACTOR STORAGE YARD:**				
115	Development of the Contractor Storage Yard including fencing, illumination etc., including deployment of all lifting and handling equipments, manpower required to stack, unload and load all Free Issue Material (FIM) including Line Pipes and all bought out items, as required; storage of all Free Issue Material and bought out items for the required duration as per project requirement, all works as per Scope of Work, drawings, other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, PTS, GTS and Provision of Contract & instructions of Engineer In-Charge. The storage yard shall be used for storage of all Free Issue Line pipes, all other Free Issure Material (FIM) and all bought out items required for the project. Notes:- 1) Development of contractor storage yard adequate to store all the material required for Project, including all Free Issue Material (FIM) and bought out items. (Rate for the same shall be captured in this item) 2) Maintenance of contractor storage yard for the entire project period is included in the scope of contractor. No separate payment shall be applicable for the same.	1	LS	10,00,000.00	10,00,000.00
116	Hard Rock breaking by controlled blasting / chiseling method (rate will be applicable in case when prior approval for rock breaking is obtained by the contractor from GAIL / PMC)	100	M3	3,500.00	3,50,000.00
117	Clean Agent Fire Supression System as per Scope of Work	1	LS	50,000.00	50,000.00
118	Restoration of underground utilities (pipes & cables) during excavation at ONGC, GCS Bokaro and Receiving Station (which is inside SV-01 Premises)	10	Nos	10,000.00	1,00,000.00
119	**Sub-Total Section A**				**18,81,03,600.00**
	SECTION-B [MECHANICAL (PIPING & TERMINAL WORKS)]				

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121	**PIPING WORKS AT DESPATCH AND RECEIVING STATIONS AND HOOK-UP WITH ONGC GCS, BOKARO** All works for installation of all piping at all elevations for Despatch and Receiving Stations as indicated in Drawings, Scope document, including supply of all consumables, Gaskets, nuts, bolts Studs, manpower, materials and equipment (except Company supplied free-issue materials), aligning, grouting, tie-in with pipeline and carrying out all mechanical works of underground and above ground piping including fabrication, welding, installation of all pipes, valves (manual & actuated), flanges, fittings, flow tees, pig signalers, insulating joints, corrosion monitoring probes /corrosion coupons, installation of instruments (pressure/temperature gauges, vents, drains-off, safety relief valves, electro hydraulic valves etc.) as indicated in P& IDs and GADs. 100% Radiography of weld joints of piping above 1.5 inch, Magnetic particle & Die penetration test for piping 1.5 inch & below, all NDT of welds, weld repairs/retesting, hydrostatic testing, cleaning/flushing, functional testing, de-pressurizing , Drying and dewatering, cutting and re-beveling (as required), hookup of all pipeline/utilities at the battery limit with the pipeline/utilities installed by others, obtaining all statutory clearances, approvals and permissions for the work (wherever required), excavation and filling in all types of soils including soft/hard rock for installation of piping/ pipe supports; corrosion coating and external painting (as required), finishing, clean-up and restoration of site, preparation of as- built drawings, documents and project records and performing all works as per drawings, specifications, other provisions of Contract document and instructions of Engineer-in-Charge. Civil/ structural works for piping supports will be paid separately as per unit rate provided elsewhere in the contract. Cost of Transportation of all materials (Including FIM mentioned above) for station works, from Contractor's own stock-yard to Work site, to be included in this SOR item. No separate payment will be applicable for the same.				
122	Fabrication and Erection of piping as per item no.110, (For Pipe Size 2 Inch and above, 100% Radiography) Note: 1. Rate for Handling, Fabrication and erection of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item. Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor.Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes 2" & above, shall also be part of this item. Contractor shall quote accordingly.	1900	Inch Dia Meter	1,000.00	19,00,000.00
123	Fabrication & Erection of Piping as per item no.110 (For Pipe Size Below 2 inch, Magnetic particle & Dye Penetration Test as per the requirement of specification)	50	Inch Dia Meter	1,100.00	55,000.00
124	Painting of Piping (Pipe, Fittings, Flanges, Valves, Equipments, etc.) as per item no. 110	1950	Inch Meter	190.00	3,70,500.00
125	Hydrostatic testing, cleaning / flushing, functional testing, de-pressurizing, dewatering & drying of Piping as per item no. 110 (for all size upto 12").	1950	Inch Meter	22.00	42,900.00
126	**INSTALLATION OF COMPANY SUPPLIED FIM (FML SKID AND PIG LAUNCHER/RECEIVER SYSTEM) AT DESPATCH TERMINAL AND RECEIVING TERMINAL**				
127	Installation of Company supplied Filtering, Metering and PRS Skid and Scrapper Launcher/ Receiver with accessories, at stations including all handling and installation works; as per drawings, specifications enclosed with the Contract and directions of Engineer-in-Charge. Cost of Transportation of above Free issue items, from Contractor's own stock-yard to Work site for station works, to be included in this SOR item. No separate payment will be applicable for the same.	1	LS	80,000.00	80,000.00
128	**CONTRACTOR SUPPLIED ITEMS:(Supply of Items as per attached PTS,GTS,Data Sheet,QAP and PMS)**				
129	**Station pipe -Seamless**				
130	1" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, PE, SEAMLESS	6	Meter	1,000.00	6,000.00
131	2" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	90	Meter	1,600.00	1,44,000.00
132	4" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	120	Meter	3,200.00	3,84,000.00
133	10" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	12	Meter	12,000.00	...00.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**			**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL**	**Rev.00** **Date-11.02.2022**
				Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**

M/s. POTALIYA ENTERPRISES

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
134	12" pipe, 7.1mm thk, ANSI B 36.10, API 5L X 70,HFERW	84	Meter	16,000.00	13,44,000.00
135	**Supply of fittings & Flanges**				
136	1 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 350 LF2,CL1, BW, ANSI B16.25	4	Nos	600.00	2,400.00
137	1" WNRF FLANGES, 6C1, SCH. 160 / 600#, WNRF, B-16.5, ASTM A350 LF2, CL1, BW-ANSI B16.25 RF	4	Nos	700.00	2,800.00
138	1", BLIND FLANGES, 6C1, 600#, RF, B-16.5, ASTM A350 LF2, CL1, RF	4	Nos	800.00	3,200.00
139	3/4" EQUAL TEES, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25,	2	Nos	800.00	1,600.00
140	3/4", CUP THREADED 6C1, 6000#, ANSI B16-11, ASTM A 350 LF2, CL1 , BW - ANSI B16.25, ANSI B1.20.1,	3	Nos	700.00	2,100.00
141	**WELDOLETS (MAINLINE x BRANCH SIZE)**				
142	4" x 1", WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	4	Nos	1,000.00	4,000.00
143	12" x 2" WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 7.1 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 694 F70	5	Nos	1,000.00	5,000.00
144	12" x 2", WELDOLETS (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 7.1 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	35	Nos	1,000.00	35,000.00
145	**GASKETS**				
146	GASKETS, 6C1, 600#, RF, ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 1"	12	Nos	200.00	2,400.00
147	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 2"	210	Nos	300.00	63,000.00
148	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 4"	30	Nos	500.00	15,000.00
149	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 10"	2	Nos	1,100.00	2,200.00
150	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 12"	44	Nos	1,200.00	52,800.00
151	**NIPPLES**				
152	NIPPLES, 6C1, Sch 160 /600#, ANSI B 36.10, ASTM A333 GR.6, BOTH ENDS PLAIN, SEAMLESS-LG=100mm, 3/4"	10	Nos	200.00	2,000.00
153	NIPPLES, 6C1, Sch 160 / 600#, ANSI B 36.11, ASTM A333 GR.7, ONE END THRD -MNPT SEAMLESS- LG=100mm, 3/4"	8	Nos	200.00	1,600.00
154	**Supply of following Valves as Per attached PTS,GTS,Data Sheet,QAP,PMS & MTO**				
155	1",BALL VALVE - FULL BORE (RF) (ABOVE GROUND),6C1	6	Nos	15,000.00	90,000.00
156	3/4", CHECK VALVE (RF) (AG), 6C1	2	Nos	13,000.00	26,000.00
157	**3/4",NEEDLE VALVE, 6C1**	5	Nos	14,000.00	70,000.00
158	Note (Applicable for all items of SOR item No 128 to 157): 1. Before procurement of any of the above materials Contractor will take prior approval from GAIL / PMC. 2. Payment will be made for actual quantity used.				
159	**Sub-Total Section B**				**48,51,500.00**
160	**SECTION-C [CIVIL / STRUCTURAL & ARCHITECTURAL]**				

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M/s. POTALIYA ENTERPRISES					
S. NO.	**WORK DESCRIPTION AND SUPPLY**	**UNIT**	**QTY**	**PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR**	
161	**CIVIL , STRUCTURAL & ARCHITECTURAL**				
162	**Earthwork excavation in soil**				
163	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	2900	cum	400.00	11,60,000.00
164	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth beyond 1.5m and upto and inclusive of 3.0m including Removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	70	cum	500.00	35,000.00
165	**Earthwork excavation in soft rock**				
166	Earth work in EXCAVATION below ground level for all kinds of works in SOFT ROCK and HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as irected including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	255	cum	2,000.00	5,10,000.00
167	**Backfilling after execution of work**				
168	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps within a LEAD OF 100M,including re-excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/ mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	1150	cum	200.00	2,30,000.00
169	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps beyond a LEAD OF 100M AND UPTO & INCLUSIVE OF 500M including re- excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	490	cum	250.00	1,22,500.00
170	**Transporting & Disposing the SURPLUS EARTH AND DEBRIS**				
171	Transporting and disposing the SURPLUS EARTH AND DEBRIS including shrubs and vegetations from construction areas to areas ANYWHERE OUTSIDE THE PLANT BOUNDARY, including re-excavating the deposited soil excavated earlier, loading, transportation, unloading, laying at all depths and heights, stacking,levelling and dressing both the area (viz. from where the earth is transported and where it is deposited) to required levels and slopes complete with all lifts as directed. For carting on the basis of truck measurements (volume of truck reduced by 30% for voids). DISPOSAL AREAS OUTSIDE PLANT BOUNDARY TO BE ARRANGED BY THE CONTRACTOR. Royalty as applicable for disposal outside plant limits to be borne by the Contractor	1310	cum	200.00	2,62,000.00
172	**EARTH WORK FILLING BY EXCAVATION**				
173	EARTHWORK IN FILLING by excavating the earth from BORROW AREAS arranged by CONTRACTOR for all leads, transporting the earth from borrow area including cleaning & stripping the earth at borrow areas, breaking clods, loading, unloading and laying at all depths and heights in layers of thickness not exceeding 15 cms., watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% of the maximum laboratory dry density, ressing, trimming, levelling the top surface etc. in foundations, plinths, trenches etc. all complete.	9555	cum	600.00	57,33,000.00
174	**PLAIN & REINFORCED CEMENT CONCRETE: (REFER SPECIFICATION NO. (Z/02/0004)**				
	PLAIN CEMENT CONCRETE - PCC				

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				Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**

M/s. POTALIYA ENTERPRISES

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
176	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:4:8 (1 cement : 4 coarse sand (Zone-III) : 8 graded stone aggregate 40 mm nominal size)	160	cum	7,000.00	11,20,000.00
177	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:3:6 (1 cement : 3 coarse sand (Zone-III) : 6 graded stone aggregate 40 mm nominal size)	22	cum	8,000.00	1,76,000.00
178	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:2:4 (1 cement : 2 coarse sand (Zone-III) : 4 graded stone aggregate 20 mm nominal size)	150	cum	9,500.00	14,25,000.00
179	Providing and laying PLAIN CEMENT CONCRETE for all depths below and upto plinth level in foundations, drains, fillings, non-suspended floors, pavements & ramps or any other works etc. including shuttering, tamping, ramming, vibrating, curing, etc. all as specified in any shape, position, thickness and finishing the top surface rough or smooth as specified and directed all complete for concrete grade M20 with 20mm and down size graded crushed stone aggregates/Gravels. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR	26	cum	9,500.00	2,47,000.00
180	**RCC WORKS**				
181	**SUBSTRUCTURE**				
182	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUBSTRUCTURE INCLUDING CENTERING & SHUTTERING) e.g. foundations, raft, beams, pile caps, Retaining walls, counterforts, buttresses, pedestals, pipe sleepers, columns, suspended floors, staircases, landings, steps, brackets etc., including equipment/ machine foundations & pedestals viz. compressors, generators, etc. (including single pour concreting as specified on the drawing), applying cement wash on concrete surface (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering, etc., wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT)for all depths below and upto plinth level in any shape, position and thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	1220	cum	11,000.00	1,34,20,000.00
183	**SUPER STRUCTURE- EXCLUDING CONTROL ROOM BUILDING, GUARD ROOM & BOUNDARY WALL**				
184	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUPER STRUCTURE INCLUDING CENTERING & SHUTTERING in suspended floors, slabs, beams, columns, walls including counterforts, staircases, landings, steps, facias, fins, mouldings, gutters, shelves, window sills, canopies, lintels, girders, ducts, brackets, chajjas with drip moulds, pedestals, posts, struts, equipment/ machine foundations, ramps etc. (including single pour concreting as specified on the drawing), providing cement wash (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT) FOR ALL HEIGHTS UPTO & INCLUSIVE OF 20 m ABOVE PLINTH LEVEL in any shape, position, thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	70	cum	11,000.00	7,70,000.00
185	**CONTROL ROOM BUILDING (SUPERSTRUCTURE)**				
186	Construction of Control Room Building as per drawings and specification. Building work for all Superstructure works INCLUDING CENTERING & SHUTTERING , Reinforcement , masonry work, partition wall, Plastering & pointing, flooring, Floor finishes, Door & windows, rolling shutter, false ceiling, all finishes, painting, roof treatment complete in all respect etc.)	215	m2	40,000.00	86,00,000.00
187	**GUARD ROOM (SUPERSTRUCTURE)**				
188	Guard Room as per drawings and specification. Building work for all superstructure works including (Reinforcement, masonry work Plastering & pointing, flooring, Floor finishes, Door & windows, painting, roof treatment, all finishes, water supply and sanitary work complete in all respect etc.)	17	m2	25,000.00	4,25,000.00
189	**HYD Bars / MS Bars**				

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190	Supplying and placing in position HIGH YIELD STRENGTH DEFORMED STEEL BARS REINFORCEMENT of Grade Fe500D TMT conforming to IS:1786, for RCC work (excluding control room building & Guard room & boundary wall superstructure) including transporting the Steel, straightening, cleaning, decoiling, cutting, bending to required shapes and lengths as per details, binding with 18 SWG black soft annealed binding wire at every intersection, supplying and placing with proper cover blocks, supports, chairs, overlaps, welding, spacers, fanhooks etc. for all heights and depths etc. all complete as directed. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE	136	MT	1,50,000.00	2,04,00,000.00
191	**BOUNDARY WALL (SUPERSTRUCTURE)**				
192	compound wall (Superstructure)with RCC columns, beam, coping and Brick masonry (3.0m high) with an additional 0.6m high barbed wire & concertina coil (dia. 600mm) overhead on 'Y' shape structural steel frame. (SUPERSTRUCTURE) works included (masonry work, Plastering ,painting, CENTERING & SHUTTERING complete in all respect etc.)with gate and supplying, fixing and tensioning in position 2.5mm(12 gauge), 2 ply, 4 points, GI Barbed wire designation A-1 conforming to IS:278 in horizontal rows and cross diagonals for compound wall "Y" shaped overhang etc. with necessary GI staples, clips and pins, GI straining bolts and binding wire with all labour and materials etc. complete as per drawings, specifications and directions of Engineer-in-Charge.(The barbed wire shall be measured in linear length of the barbed wire actually fixed) Supplying, fabricating and fixing in position structural steel line posts, straining posts, struts for 'Y' shaped overhang etc. conforming to IS:2062 over brick/stone Masonry/ RCC compound walls/ columns, cutting to required size as per drawings and specifications, welding where necessary, embedding in position, holding to correct level and line, any auxiliary structure for dummy supports, drilling holes and painting as per painting specification attached with tender, cutting brick/rubble/concrete surfaces if necessary, grouting with M20 grade concrete including cost of grout with all labour and material etc. complete as per drawings, specifications and directions of Engineer-in-Charge.(All materials including cement shall be supplied by contractor).	285	RM	13,000.00	37,05,000.00
193	**STRUCTURAL STEEL WORKS (REFER TE SPECIFICATION)**				
194	Supplying, fabricating and erecting of structural steel and applying COATING (Post-erection/ Field) of approved quality and shade as per TE Specification or Job Specifications, wherever applicable) over the coat of shop primer already applied, including storage, surface preparation, degreasing, cleaning, drying, providing necessary arrangement for access, testing etc. including touching up of shop for steel structures (Including Wicket Gate, Main Gate and emergency gate, excluding ladders, spiral stairways & hand rails) at all location & levels, all complete as specified, for UNIT (INLAND) areas considering environment classification as INDUSTRIAL. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE. (Unit rate based on Structural steel weight)	19.5	MT	1,50,000.00	29,25,000.00
195	MISCELLANEOUS STEEL WORKS (REFER TE - SPECIFICATIONS)				
196	**MS Chequered Plates**				
197	Supplying, fabricating and erecting in position at all levels and locations bolted, screwed and/or welded M.S. CHEQUERED PLATES of any thickness in walkways, platforms, stairtreads or any other place as directed, etc. cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing, welding, preparation and submission of fabrication drawings and preparing the surfaces for painting and applying shop primer as per TE Specification after fabrication and return of unused/ scrap/ unserviceable chequered plates to Owner's store and material reconciliation etc. all complete as specified and directed	1.5	MT	1,50,000.00	2,25,000.00
198	**Anchor Bolts**				
199	Supplying, fabricating, fixing and keeping in position at all levels and locations THREADED ANCHOR BOLTS of all diameters and nomenclature including nuts, washers, anchor plates, pipe sleeves etc. in foundations, columns, pedestals, slabs, beams, walls etc. or any other place as directed including handling & transporting, straightening if required, turning from relevant size M.S. rounds to required diameter, threading, welding, providing necessary templates and auxiliary dummy structures, if any, necessary tying and welding with reinforcement, adjustment of shuttering & reinforcement/any other fixture, greasing exposed metal surfaces, covering bolts and packing the sleeves with jute cloth etc. all complete as specified and directed.(SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1	MT	2,00,000.00	2,00,000.00
200	**MS Metal Inserts**				
201	Supplying, transporting, storing, fabricating and fixing in position M.S. METAL INSERT (with lugs) of any shape made out of flats, plates, rolled sections, pipes etc. providing necessary templates, staging, cutting,straightening, if required, bolting, welding as required and embedding in position on both Plain and Reinforced Cement concrete members inclusive of adjusting shuttering & reinforcement/ any other fixture, welding where necessary, tying and holding to correct level, line and position, any auxiliary dummy structures to support the heavy inserts, painting exposed surfaces with a coat of primer as per TE Specification all complete for all depths and heights as specified and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	0.55	MT	2,00,000.00	1,10,000.00
202	**MS Grating**				

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203	Supplying, fabricating and erecting in position at all levels and locations ELECTROFORGED GALVANISED GRATING (purchased from approved manufacturer by the Contractor) conforming to TE STANDARD (in walkways, platforms, stair treads etc.) including cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing with manufacturer's supplied galvanised clamps, preparation and submission of fabrication drawings, all complete as specified and directed (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.7	MT	2,50,000.00	4,25,000.00
204	**Hand Railing 1000mm**				
205	Supplying, fabricating and fixing in position at all locations 1000mm high INCLINED HAND RAILING (for staircases) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade M.S. Tubes conforming to IS:1239 including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE SPEC. preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	RM	6,250.00	62,500.00
206	Supplying, fabricating and fixing in position at all locations 1000mm high HORIZONTAL HAND RAILING (for platforms, walkways, etc. or any other location as directed) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade MS Tubes conforming to IS:1239 and 100x5 MS Toe Plate confirming to IS:2062 (Grade A/B), including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE standard drawing & specification, preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	6,250.00	62,500.00
207	**CHAIN LINK FENCING**				
208	Supplying, fabricating and fixing G.I. chain link fencing with 3.5mm dia. wire, 50x50mm diamond mesh chain link fence fabric conforming to IS:2721 fixed to steel/RCC posts/struts above ground level, including supply of chain link fencing fabric in 1.9 metre wide rolls, stretcher bars, staples, etc. required for fixing the fencing, fixing of chain link fencing between straining posts, fixing of bottom of fencing in cement concrete 1:2:4 blocks and painting with synthetic enamel etc. , including supply and fixing line wires, complete as per drawings, specifications and directions of Engineer -in-Charge (All materials shall be supplied by Contractor). (The measurement of chain link fencing shall be on linear basis for 1.9 m wide fencing fabric)	10	M	5,100.00	51,000.00
209	**ROADS & FLEXIBLE PAVEMENT (UPTO WBM LAYER)**				
210	Preparation and consolidation of sub-grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth outside the property boundary in the un-disputed areas as directed by Engineer-In-Charge.	2400	M2	500.00	12,00,000.00
211	Supplying and laying of stone aggregate of 63mm down to 45mm size for WBM layer Base Course, tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 75mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding material of plasticity index upto 6%, including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts etc. complete as per drawings, specifications and directions of Engineer-in-Charge	7200	M2	2,000.00	1,44,00,000.00
212	**CONCRETE PAVEMENTS**				
213	Construction of dry lean cement concrete (DLC) sub base over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in- charge.	240	cum	10,000.00	24,00,000.00
214	Providing and laying Reinforced Cement Concrete with 20mm and down size graded crushed stone aggregates in flooring, pavements etc. including leaving pockets, if necessary, making recess/drains, laying in alternate panels, etc. for all depths including shuttering, tamping, curing, providing dowel bars with sleeves/tie bars etc where ever required at site. as specified in any shape, thickness, position and finishing the top surface smooth etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For RCC of M-30 grade concrete (all materials including cement but excluding cost of providing & fixing reinforcement and joint sealing shall be supplied by the contractor).	600	cum	11,000.00	66,00,000.00
215	Providing 20mm wide Expansion Joints in pavement slabs as per general technical specification including cleaning the joints of all loose material, filling with 20mm thick impregnated fibre boards for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved Joint Sealing Compound as per IS:1834 Type-B etc. all complete as per drawings, specifications and directions of Engineer-in-Charge	1100	M	2,000.00	22,00,000.00

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M/s. POTALIYA ENTERPRISES

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
216	Sealing joint around pedestal and column etc. 20mm wide x 150 mm deep including filling with 20mm thick impregnated fire board for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved joint sealing compound as per IS:1834 Type-B.	300	M	2,200.00	6,60,000.00
217	**RCC PIPE CULVERTS & ELECTRICAL ROAD CROSSINGS ETC. (as per drawing & TE specification)**				
218	Supplying and laying in position RCC pipes with collars conforming to IS:458 for pipe culverts, cable crossings etc. including cutting the pipe if necessary, lowering, laying in position to proper levels, slopes etc. caulking the joints with spun yarn soaked in neat cement slurry and finishing with cement mortar 1:2 (1 cement : 2 sand) curing etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For following Class and Internal PIPE DIA (MM). (Dia (internal) - 500 mm, Pipe Class - NP3)	20	M	10,000.00	2,00,000.00
219	**U/G AND A/G G.I. PIPELINE SYSTEM - WATER SERVICES tender specification**				
220	Supplying and laying mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ ASTM A105 (Galvanized) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, earthwork in excavation for trenches, valve pits, etc. in all types of soil excluding soft and hard rock including laying of pipes in trenches, joining the pipes and fittings with threaded connections, hydrostatic testing of the piping, backfilling the trenches with selected/approved earth fill material, cutting of roads wherever required, making good the road surface after laying, disposal of surplus earth within a lead of 500 m, etc. including supply of necessary fittings etc. complete as per specifications, drawings and directions of Engineer-in-Charge. For following Nom.Size in mm. (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	500.00	5,000.00
221	Supplying and laying above ground mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ASTM A 105 (GALVANISED) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, including laying of pipes on sleeper, walls, including erecting piping on columns, etc. for pump station, overhead tanks, etc. including joining the pipes and fittings with threaded connections, hydrostatic testing of the piping including supply of necessary fittings etc & pipe supports. complete as per specifications, drawings and instructions of Cement Supplied by contractor (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	600.00	6,000.00
222	**MISC. CIVIL AND STRUCTURAL WORKS FOR U/G PIPING AND OTHER CIVIL WORKS**				
223	Providing and laying brick masonry with locally available bricks of specified class (Brick of class lower than specified shall not be accepted) in cement mortar 1:4 (1 cement : 4 Coarse sand) in one or more brick thickness and in any shape in foundation and plinth for valve pits, drains, circular/square manholes, wing walls, etc. including providing recesses, openings, etc. including curing, finishing the joints flush below ground level and raking out joints in plinth with all labour and material, etc. complete as per drawings, specifications and direction of Engineering-Charge. For following Brick Class. All materials including cement supplied by the Contractor and. (Brick Class - 5)	418	cum	9,000.00	37,62,000.00
224	Providing 13mm thick average cement plaster in cement mortar 1:3 (1 cement: 3 sand) on brick walls/stone masonry/pitching or on concrete surfaces for manholes, valves pits, culverts, wing walls, etc. including cleaning and preparation of the surface, scaffolding, curing etc. for all depths and heights complete as per drawings specifications and direction of Engineer-in-Charge. All materials including cement supplied by the Contractor.	775	M2	1,500.00	11,62,500.00
225	**UNDERGROUND SEWER SYSTEM - RCC PIPES**				
226	Supplying and laying underground R.C.C. pipes sewers with socket and spigot ends conforming to IS:458 of approved make, to proper grade and alignment, including earthwork in excavation in all types of soil except soft and hard rock for pipe trenches, etc. including dewatering, shoring and shuttering if necessary, dressing of sides, leveling, grading and ramming of bottoms, cutting the R.C.C. pipes to required lengths, lowering the pipes, jointing, including connecting the pipes to manholes and grouting the pipe body with manhole wall using cement mortar 1:2 (1 cement : 2 sand), testing, draining of water and cleaning of pipe after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness , watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, including cutting of roads wherever required and making good the same, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit etc. complete for all depths as per drawings, specifications and instructions of Engineer-in-Charge.(All material shall be supplied by contractor) For following Pipe size (mm) and Class(The following pipe sizes are all internal diameter of the pipes)				

M/s. POTALIYA ENTERPRISES

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
227	(Dia (Internal) - 100 mm, Piping Material Class - NP2)	15	M	2,000.00	30,000.00
228	(Dia (Internal) - 150 mm, Piping Material Class - NP1)	15	M	2,500.00	37,500.00
229	(Dia (Internal) - 450 mm, Piping Material Class - NP2)	70	M	7,000.00	4,90,000.00
230	**UNDERGROUND SEWER SYSTEM-HDPE PIPES**				
231	UNDERGROUND SEWER SYSTEM-HDPE PIPES :- Supplying and laying HDPE pipes conforming to IS:4984 of approved make to proper grade and alignment, including earthwork in excavation for trenches etc. in all types of soil except soft and hard rock including dewatering till completion of subsequent works, shoring and strutting, if necessary, dressing the sides, leveling, grading and ramming the bottom, jointing the pipes using hot plates as per manufacturer's recommendation, lowering, providing and laying 1:5:10 (1 cement : 5 sand : 10 aggregate) plain cement concrete of minimum 100mm thickness on bottom and side of pipe as directed, connecting the pipes to manholes and grouting the pipes to manhole/valve chamber walls, including supplying and fixing the specials and fittings, such as bends, reducers, tees, elbows, caps etc. conforming to IS:8008 or fabricated from pipes as per specification, supplying and fixing of flanges, fixing of online valves, including fixing of bolts, nuts and gaskets etc. as per specifications, testing, draining of water and cleaning of pipes after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness, watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit, cutting of road wherever required, making good the same etc. complete for all depths as per drawings, specification and instruction of Engineer-in- Charge. For the following nominal diameter (mm) Pressure Rating(Kg/Cm2). (Dia (Internal) - 80 mm, Pressure Rating - 2.5 Kg/sqcm)	50	RM	1,000.00	50,000.00
232	**PLUMBING AND BUILDING DRAINAGE**				
233	Supplying and fixing approved quality Cast Iron soil/waste pipe conforming to IS:1729 below ground with necessary specials, bends such as Y-junction, T- junction (both single and double) including plugs, shoes, cowls, jointing with lead caulked joints and testing, cutting in floors, earth work in excavation, encasing the pipe in 50mm THK, PCC M20, backfilling and removal of surplus earth upto a lead of 50M etc. complete as per drawings, specifications and directions of Engineer-in-Complete				
234	100mm dia (All materials including cement supplied by contractor)	10	RM	1,000.00	10,000.00
235	80mm dia (All materials including cement supplied by contractor)	10	RM	950.00	9,500.00
236	Supplying and fixing gun metal globe valve conforming to IS:778, complete as per specifications and directions of Engineer-in-Charge.				
237	Dia - 50 mm	2	Nos	4,000.00	8,000.00
238	Constructing of brick masonry valve chamber in 1:4 Cement mortar(1 cement: 4 sand) with CI frame & cover fixed on M-20 grade cement concrete , necessary excavation, M-20 grade foundation concrete, 13mm thick 1:3 cement plaster on inside & all exposed surfaces, backfilling, removal of surplus earth for all leads within the complex limit etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge. For following Valve size and Brick Class (All materials including Cement supplied by contractor)				
239	Dia - 50 mm, Brick Class - 5)	2	EACH	30,000.00	60,000.00
240	Providing and fixing approved stone ware 100mmx100mm dia. gully trap as per tender specification, including grating with CI frame and cover 300mmx300mm including brick masonry (brick class shall be as mentioned below) chamber in 1:4 cement mortar(1 cement: 4 sand) on M-20 grade cement concrete foundation, plastered inside and outside surfaces with 1:3 cement mortar (1 cement: 3 sand) with 13mm average thickness including providing and fixing light duty CI frame and cover, painting CI frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat, earth work in excavation, backfilling, removal of surplus earth, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry etc. all complete as per drawings, specifications and directions of Engineer-in-Charge				

M/s. POTALIYA ENTERPRISES

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
241	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	6,000.00	12,000.00
242	Construction as per(Design basis & general technical specification) of brick masonry (brick class shall be as mentioned below) inspection chambers/manholes of 750mmx750mm internal size 1000mm deep(Max.) in cement mortar 1:4 (1 cement: 4 sand) with CI frame and cover 500mm clear dia, (circular Medium duty of grade MD-10) conforming to IS:1726 fixed on RCC slab of M-30 grade, necessary excavation, supplying, fixing 4 Nos. 16mm dia M.S. rungs, M-20 grade foundation concrete 1:3 cement mortar(1 cement: 3 sand) plastering of 13mm average thickness for inside & 16mm avg. thickness for outside exposed surfaces, backfilling, disposal of surplus earth upto a lead of 100M, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry, painting the C.I.frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat etc. all complete as per drawings, specifications and directions of Engineer-in-Charge.				
243	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	20,000.00	40,000.00
244	Construction, supplying, installation, testing and commissioning of septic tank as per standards and IS:2470 Part-I , with all necessary accessories like inlet, outlet vent pipes, manhole covers, rungs etc. including earthwork in excavation in all type of soil except soft and hard rock, backfilling and disposal of surplus earth for all leads etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge				
245	All material including cement supplied by contractor for (Users - 10 NOS)	1	Nos	2,00,000.00	2,00,000.00
246	**MISCELLANEOUS ITEMS**				
247	Supplying and fixing in position entrance gate in complex boundary wall fencing manufactured out of steel frame work and square MS bars of 20 mm at 100 c/c and horizontal name plate band at lock rail level suitably hinged with box type steel post embedded in cement concrete i.e. providing the tension bar for smooth operation and locking arrangement etc. complete as per tender specification, including painting with two coats of anti-corrosive paint and two coats of approved aluminium/synthetic enamel paint etc. complete as per drawings, specifications and directions of Engineer-in-Charge.				
248	4.0M clear opening width of gate in two panels.	3	Nos	85,000.00	2,55,000.00
249	Supplying & Laying interlocking Paver Blocks for roads, footpaths and any other place etc. including providing 50 mm thick sand filling below Paver Blocks including compaction of sand layer, filling the joints by dry sand, providing precast kerb stone of PCC M-20 at edges, including preparation of compacted sub-grade etc. all complete as per drawing, standard and directions of Engineer-in-Charge. (All material including cement supplied by contractor, paver blocks shall confirm to IS: 15658. cloour and shape of paver block shall be as per owner requirements for following thickness of paver blocks				
250	(Thickness - 60 mm)	385	M2	2,000.00	7,70,000.00
251	Supply and installation on terrace, high density polyethylene drinking water circular tank as per IS:12701 and ISI marked including supply and installation of all fittings, cover with suitable locking arrangement, float valve, making necessary holes for inlet, outlet and overflow connection and vent pipe etc. and the base supports for tank including supply of all necessary material all complete as per specifications and directions of Engineer-in-charge. (Sintex or equivalent having valid ISI license) for following capacities.				
252	capacity - 500 litre	2	Nos	16,000.00	32,000.00
253	Supplying, installation, testing and commissioning of Upflow Anaerobic Filter with bleaching tank as per TE Std. Drawing with all necessary accessories like, Upstream inlet CI piping from septic tank, Downstream outlet RCC NP2 class piping up to surface storm water drains, CI pipes for filter chamber, CI valve, RCC pre-cast pit covers, steps, perforated pre-cast slabs etc., inlet chamber, Filter chamber, deluding chamber including earthwork in excavation in all type of soil including soft rock, backfilling with murrum or approved soil arranged by the contractor, disposal of surplus earth etc. complete as per drawings, specification and direction of Engineering-Charge (All materials including cement shall be supplied by the contractor, Brick Class lower than 5.0 shall not be used). - Upto 10 Nos. user	1	Nos	50,000.00	50,000.00
254	**DEMOLISHING AND DISMANTLING**				
255	**Brickwork**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. POTALIYA ENTERPRISES

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
256	Demolishing BRICKWORK (taking all necessary safety precautions) for all depths below plinth level including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	2,500.00	25,000.00
257	Demolishing BRICKWORK (taking all necessary safety precautions) for all heights above plinth level including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	2,500.00	25,000.00
258	**RCC**				
259	Demolishing RCC WORK (taking all necessary safety precautions) for all depths below plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	2,500.00	25,000.00
260	Demolishing RCC WORK (taking all necessary safety precautions) for all heights above plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	2,500.00	25,000.00
261	**PCC**				
262	Demolishing PLAIN CEMENT CONCRETE work (taking all necessary safety precautions) for all depths below plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc. disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation and backfilling shall be paid separately under relevant items)	10	cum	1,000.00	10,000.00
263	**MISCELLANEOUS ITEMS (REFER TE SPECIFICATION)**				
264	Sand Filling				
265	Supplying and filling approved SAND of specified quality under floors, in foundations, plinths, tank foundations etc. for all depths and heights including cost of sand,royalties,transportation to site for all leads and lifts, including loading, unloading, spreading in layers of loose thickness not exceeding 150 mm,watering,ramming,compacting with mechanical compactors and/or other equipment to the specified levels to achieve 85% relative density as per IS:2720 Part XIV,including preparation of subgrade to the required slope, providing testing apparatus and testing the degree of consolidation all complete as per drawings, specifications and direction of Engineer-in-charge. The rates shall be inclusive of the cost of all labour,material,equipments etc. all complete .	120	cum	1,000.00	1,20,000.00
266	**SAND GRAVEL MIX**				
267	Supplying and filling sand gravel mix (1:1) with approved aggregate below road, RCC pavement, manholes, pits, foundations, bedding of UG piping etc. in layers of 150 mm loose thickness (maximum) including watering, ramming, rolling, compacting to achieve 85% relative density as per IS 2720 Part-XIV, quarrying, royalties, transportation, handling, etc. all complete as per drawings, specifications and directions of Engineer-in- Charge. (The rate shall be inclusive of the cost of all labour, material, equipment etc. all complete)	122	cum	2,200.00	2,68,400.00
268	**GROUTING WITH NON-SHRINKABLE COMPOUND**				
269	Providing and laying manually or by pumping at all positions a ready mix non-shrink cementitious grout of compressive strength specified below for specified works e.g. pipe support, base grouting of rotating equipment and other installation complete in all respects as per scope of work, detailed construction drawings , technical specifications and directions of the Engineer-In-Charge.				
270	Having compressive strength of 30 N/mm2 , Per bag of 25 Kg	100	Bags	700.00	70,000.00
271	Having compressive strength 45 N/mm2 , Per bag of 25 Kg	20	Bags	1,000.00	20,000.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL**	**Rev.00** **Date-11.02.2022**
		Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**

M/s. POTALIYA ENTERPRISES

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
272	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains, SS trench of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.	10	SQM	3,000.00	30,000.00
273	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, leve and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	17	M3	15,000.00	2,55,000.00
274	Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M-25, of size 1000x450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos. cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of the Engineer-In-Charge.	630	EACH	12,000.00	75,60,000.00
275	**Borewell and recharge well**				
276	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job all complete as per drawing, direction of Engineer -in-charge, in all types of soil :	130	M	3,500.00	4,55,000.00
277	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge.	130	M	2,000.00	2,60,000.00
278	Providing and fixing Bail plug/ Bottom plug of required diameter to the bottom of pipe assembly of tubewell as per IS:2800 (Part-I). :150mm dia	3	EACH	20,000.00	60,000.00
279	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	6,000.00	30,000.00
280	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	6,500.00	32,500.00
281	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	1,500.00	7,500.00
282	Gravel packing in tubewell construction in accordance with IS:4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of the Engineer-In-Charge.	3	M3	2,000.00	6,000.00
283	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS:4270, of reputed & approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size dia having minimum wall thickness 5.00 mm	5	M	8,000.00	40,000.00
284	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	60	M	5,000.00	3,00,000.00
285	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/ 3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS:8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	25	M	7,000.00	1,75,000.00
286	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of 150 mm diameter	1	Nos	5,000.00	5,000.00
287	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS:2800 (Part-I), including necessary bolts & nuts of required size complete 150 mm diameter.	1	Nos	3,000.00	3,000.00

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M/s. POTALIYA ENTERPRISES

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
288	Supply, Installation and commissioning of 1.5HP Borwell Submersible Pump	1	EACH	1,00,000.00	1,00,000.00
289	Supply and Installation of 3Cx10Sqmm Copper Flat Cable	200	M	200.00	40,000.00
290	**LANDSCAPING**				
291	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment).	810	M3	800.00	6,48,000.00
292	Fine dressing of the ground.	2700	M2	100.00	2,70,000.00
293	Providing & laying Selection no. 1 grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden and than rolling the surface with light roller make the surface smoothen and light watering the same maintenance for 30 days or more till the grass establish properly,as per direction of officer in charge	2700	M2	300.00	8,10,000.00
294	Conducting topographical ground/land survey in the specified area as shown in the tender drawings by conventional/GPS or any other standard method, covering details of physical features like Rivers, Nallahs, Lakes, Ponds, wells, pits, Forest, Trees, Roads, culverts, transmission lines, telegraph/ telephone and electric poles, underground or any other services, cross drainage works including cross sectional details of nallah etc. including establishing high flood level with source of information, identification of any monument, historical structure, wild life sanctuary in the vicinity, storm water disposal point with levels, cross-section details of nallah, recording spot levels, top level of nearest state highway or National Highway, including providing in tabulation girth wise no. of trees etc as specified, plotting and developing topographical contour maps, showing true north including establishing survey reference stations, key plan etc. including all equipment's, instruments, personnel's, clearing of bushes as per requirement for intervisibility to carry out survey work etc. , complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of drawings/map and supply of electronic files. Note: Survey work shall be carried out by survey agency approved by Contractor and sample spot witness of levels cordinates by PMC, and shall be submitted to PMC/Owner for review.Survey drawing will be provided in A0 size with clear visibility of all the spots/levels/ contoure and Bench marks. Permanaet bench mark will be stabished at site in a 450x450 mm size 600mm high bick masonry piller.	6950	M2	40.00	2,78,000.00
295	**GEO TECHNICAL INVESTIGATION (Z/02/0022)**				
296	Conducting soil investigation with boring including all field tests and laboratory tests, mobilization and demobilization of equipments & personnel etc. for soil investigation for each borehole location. complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of Reports & recommendations and supply of electronic files.	5	Nos	7,000.00	35,000.00
297	**ANTI-TERMITE TREATMENT**				
298	Supplying chemical emulsion in sealed containers including delivery as specified in the Technical Specifications.				
299	**Chlorpyriphos/ Lindane emulsifiable concentrate of 20%**	200	LITRE	1,000.00	2,00,000.00
300	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
301	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc. as per Techinal specifications and direction of engineering in charge: With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	80	METRE	500.00	40,000.00
302	Treatment of soil under floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the floor:				
303	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	250	SQM	500.00	1,25,000.00
304	Supply and installation 60mm dia GI pipe for column support of gate	15	M	500.00	7,500.00
305	Supply and installation 100mm dia MS pipe	15	M	600.00	)00.00

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M/s. POTALIYA ENTERPRISES					
S. NO.	**WORK DESCRIPTION AND SUPPLY**	**UNIT**	**QTY**	**PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR**	
306	Supply and installation 50mm dia MS pipe	15	M	500.00	7,500.00
307	Supply and installation of U-PVC pipes (working pressure 4 kg / cm²) Single socketed pipe 75 mm dia for weep holes	300	M	600.00	1,80,000.00
308	**Sub-Total Section C**				**10,96,08,400.00**
309	**SECTION-D [CATHODIC PROTECTION WORKS]**				
310	**Cathodic Protection system**				
311	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning & Monitoring of the temporary cathodic protection [TCP] system using galvanic anodes to protect the external surface of the pipeline against soil-side corrosion for minimum 2 year or till commissioning of permanent CP system whichever is later . All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard drawings and vendor list as attached with this tender and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	50,00,000.00	50,00,000.00
312	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning of permanent cathodic protection system for 40 years. The scope of work also includes post commssoning surveys and repair of coating/ rectification of cathodic protection system based on the post commissioning surveys. In additon to the same, AC Interference study on the pipelines to be performed and mitigation measures takes to the satisfaction of Owner/ CONSULTANT. All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard and vendor list attached and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	52,00,000.00	52,00,000.00
313	**Sub-Total Section D**				**1,02,00,000.00**
314	**SECTION-E [ELECTRICAL WORKS]**				
315	**ELECTRICAL**				
316	**SWITCH BOARDS / UPS SYSTEM/ PANEL**				
317	Supply , Installation, testing and commissioning of LT Switch-boards, AC UPS system with UPS Distribution board & Ni-Cd Battery banks , distribution boards, cubicles with electrical equipment, misc. electrical panels etc., including transportation from store/yard to site at the place of installation, unpacking, assembly, including mounting and wiring of loose parts supplied by equipment vendor, interconnection of shipping sections and requisite inter-panel wiring between shipping sections, including supply of all wiring materials, installation on foundations or fixing to wall or steel structures, aligning, levelling, grouting, including all labour and materials, as per approved drawings, specifications of this tender and directions of Engineer-in-Charge.				
318	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted MEDB	2	Nos	8,75,000.00	17,50,000.00
319	Supply , erection , termination , earthing and commissioning of wall mounted OLDB as per single line diagram of DT stations	1	Nos	1,16,000.00	1,16,000.00
320	Supply , erection , termination , earthing and commissioning of wall mounted ILDB as per Single line diagram of DT stations	1	Nos	1,05,000.00	1,05,000.00
321	Supply , erection , termination, earthing and commissioning of wall mounted SSDB as per Single line diagram of DT stations	1	Nos	1,05,000.00	1,05,000.00
322	Supply , erection , termination , earthing and commissioning of wall mounted AC DB as per Single line diagram of DT stations	1	Nos	92,000.00	92,000.00
323	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 6 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of DT stations	1	SET	2,00,000.00	2,00,000.00
324	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for DT stations.	1	SET	40,00,000.00	40,00,000.00

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325	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 1 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of RT stations	1	SET	30,000.00	30,000.00
326	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for RT stations.	1	SET	70,000.00	70,000.00
327	Supply , erection , and commissioning of 415 V SFU as per Single line diagram of DT stations including liasioning with SEB as per Tender specification and direction of Engineer- In charge.	1	Nos	98,000.00	98,000.00
328	**POWER AND CONTROL CABLE**				
329	Supply , laying , termination , erection and testing of 1.1 KV Power and control FRLS PVC Outersheath, XLPE insulated, armored Cables . Outdoor cable will be laid in buried cable trench and in Indoor cable will be laid in Cable trench by provision of Cable tray and supports inside the trench as per PTS - Electrical package P.017110 G 11077 E002				
330	3.5C x 95 sqmm AL FRLS XLPE	300	M	1,400.00	4,20,000.00
331	3.5C x 70 sqmm AL FRLS XLPE	100	M	1,120.00	1,12,000.00
332	3.5C x 50 sqmm AL FRLS XLPE	50	M	880.00	44,000.00
333	3.5C x 25 sqmm AL FRLS XLPE	100	M	**710.00**	71,000.00
334	4C x 16 sqmm CU FRLS XLPE	100	M	1,850.00	1,85,000.00
335	3C x 2.5 sqmm CU FRLS XLPE	170	M	320.00	54,400.00
336	3C x 6 sqmm CU FRLS XLPE	250	M	820.00	2,05,000.00
337	4C x 6 sqmm CU FRLS XLPE	350	M	830.00	2,90,500.00
338	2C x 6 sq.mm CU FRLS XLPE	100	M	760.00	76,000.00
339	2.5 sqmm Cu. Wire	1800	M	70.00	1,26,000.00
340	6 sqmm Cu. Wire	600	M	150.00	90,000.00
341	**Earthing & Lightning**				
342	Supply , Installation , testing and comissioning of GI Earth electrodes & Cu plate type earth pit complete with earth pit as per IS 3043, PTS-Electrical package and all necessary material including exacavation of earth pit , filling with charcol and salt , back filling, brick work , connections including all labour and materials as approved drawing and specification of this tender and direction of Engineer-In charge.				
343	**GI Earth Electrodes**				
344	65mm dia x 3000 mm L GI pipe electrode type Earth pit	15	Nos	29,000.00	4,35,000.00
345	**Cu plate Earth Electrode**				

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				Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**

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346	600x600x3mm Cu plate type Earth pit	8	Nos	44,000.00	3,52,000.00
347	**Earth strip and wire**				
348	50x 6 mm GI Flat strip	850	M	440.00	3,74,000.00
349	25 x 6 mm Cu Flat strip	50	M	1,125.00	56,250.00
350	2.5 Sqmm Cu wire	250	M	80.00	20,000.00
351	25 x 6 mm GI Flat strip	200	M	250.00	50,000.00
352	10 Sq.mm earthing cable	250	M	260.00	65,000.00
353	GI Earth Bus 50x 6 Sq.mm with all installation assesories	3	Nos	670.00	2,010.00
354	Cu. Earth Bus 50x 6 Sq.mm with all installation assesories (in control room)	4	Nos	1,275.00	5,100.00
355	25x3 mm GI Flat for Lightning as well as down conductors for DT station as per overall earthing layout and GGNG-E-20713-3007	80	M	200.00	16,000.00
356	Other lightning assesories like 20mm dia copper rod, hollosphere ,200x200x6mm ms plate ,anchor/fastner ,test links for DT station as per overall earthing layout and GGNG-E-20713-3007	1	LOT	1,05,000.00	1,05,000.00
357	**OUTDOOR Lighting**				
358	Supply , erection , Testing & commissioning of Outdoor area lighting system including with supply of flameproof / weather proof light fixture , pole , junction box and earthing including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender & Overall outdoor lighting layout of DT & RT station and directions of Engineer- In charge.				
359	100W FLP LED Fixture & FLP Junction box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	4	Nos	58,000.00	2,32,000.00
360	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	2	Nos	3,70,000.00	7,40,000.00
361	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in RT Stations.	7	Nos	3,70,000.00	25,90,000.00
362	1x160W FLOOD LED Fixture with weather proof junction box & 9 mtr high pole with all assesories for open area	9	Nos	78,000.00	7,02,000.00
363	1x70 W Solar type Street LED Fixture with weather proof junction box, VRLA Battery (72 hrs backup time) & 9 mtr high pole for street lighting	6	Nos	1,70,000.00	10,20,000.00
364	1x27 W Post Top Lantran LED Fixture for Gate with weather proof junction box for Gate lamp	2	Nos	20,000.00	40,000.00
365	1x36 W LED industrial fixture suitable to building parapet /wall with all assesories like weather proof junction box/clamp/reducer/	2	Nos	10,500.00	21,000.00
366	**INDOOR Lighting**				
367	Supply, erection, Testing & commissioning of Indoor building area lighting system including with supply of light fixture, point wiring including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender and directions of Engineer- In charge.				

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368	2x20 W LED recessed decorative fixture for control room	5	Nos	8,700.00	43,500.00
369	2x20W LED Industrial Fixture for Electrical room	2	Nos	10,700.00	21,400.00
370	1x40W LED Flameproof Fixture for Battery room	1	Nos	16,800.00	16,800.00
371	2x18W LED Industrial Fixture for Varanda/Toilet/ water cooler area/ Guard room	6	Nos	8,800.00	52,800.00
372	1x36W LED Industrial Fixture	4	Nos	10,800.00	43,200.00
373	2x20 W LED recessed decorative fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) control room.	2	Nos	19,500.00	39,000.00
374	2x20W LED Industrial Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Electrical room	2	Nos	22,000.00	44,000.00
375	1x40W LED Flameproof Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Battery room	1	Nos	26,500.00	26,500.00
376	**Switch socket**				
377	Supply and Installation of single/ three phase Switch socket as per Indoor Illumination layout for DT & RT and PTS-Electrical Package and directions of Engineer-In Charge				
378	5/15A surface type switch socket (1 Ph)	7	Nos	675	4,725.00
379	5A flush type switch socket (1 Ph)	4	Nos	370.00	1,480.00
380	16A Switch socket (I Ph)	3	Nos	500.00	1,500.00
381	20A Switch socket for AC (1 Ph)	4	Nos	2,900.00	11,600.00
382	Flame proof Junction box for Exhaust fan in Battery room	2	Nos	1,400.00	2,800.00
383	32A Switch socket for welding receptacles (3 Ph)	1	Nos	3,800.00	3,800.00
384	Modular switch board	12	Nos	575.00	6,900.00
385	**FANS and Exhaust FAN**				
386	Supply ,Installation and testing of Ceiling Fan and Exhaust fan with louvers including all labours and materials as per Indoor Illumination layout for DT and PTS-Electrical Package and directions of Engineer-In Charge				
387	Ceiling Fan 230V AC 1200 mm sweep	3	Nos	5,200.00	15,600.00
388	450 mm FLP Exhaust Fan for Battery room	2	Nos	19,500.00	39,000.00
389	200 mm Exhaust Fan for Toilet	1	Nos	4,400.00	4,400.00

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390	300 mm Exhaust Fan for Electrical room/ CO2 room	3	Nos	5,700.00	17,100.00
391	**Air conditioning unit**				
392	Supply ,Installation and testing of Five star 1.5 Ton Split AC with outdoor compressor unit including all labours and materials as per Typical Indoor Illumination layout for DT and directions of Engineer-In Charge				
393	Split Air condition Five star 1.5 Ton	4	Nos	1,18,000.00	4,72,000.00
394	**Hardware and other Accessories**				
395	Supply and Installation of Hardware and other accessories including all labours and materials as per Tender specification PTS-Electrical Package P.017110 G 11077 E002 and directions of Engineer-In Charge				
396	Rubber mat	15	M	2,500.00	37,500.00
397	Rubber hand gloves	1	PAIR	3,400.00	3,400.00
398	Warning Marker	1	Nos	4,400.00	4,400.00
399	PVC Conduit with bend ,tee and other required assesories	1	LOT	92,500.00	92,500.00
400	CAUTION Board & Sock treatment chart	1	Nos	1,280.00	1,280.00
401	Cable route marker as per Standard drawing TE-IN-STD-G-0327	1	LS	62,500.00	62,500.00
402	Fire extingusher and SAND Bucket with Stand	1	SET	6,700.00	6,700.00
403	Ladder type Cable tray - hot dip Galvanized Prefabricated 450 mm wide	55	MTR	1,480.00	81,400.00
404	Perforated type Cable tray hot dip Galvanized Prefabricated 450 mm wide	35	MTR.	1,650.00	57,750.00
405	**Cable Glands**				
406	Cable Glands : Flame proof IIA/IIB double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
407	Cables with upto OD 20 mm & above OD 20 mm as per Single line diagram of DT & RT station	1	LOT	49,000.00	49,000.00
408	Cable Glands : Weather proof double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
409	Cables with upto OD 20 mm to 40 mm as per Single line diagram of DT & RT station	1	LOT	62,500.00	62,500.00
410	**Sub-Total Section E**				**1,63,92,295.00**
411	**SECTION-F [INSTRUMENTATION WORKS]**				

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412	**INSTRUMENTATION**				
413	**SUPPLY**				
414	Supply of Pressure Transmitter along with 2 valve manifolds with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	85,500.00	4,27,500.00
415	Supply of Pressure gauge including high range along with 2 valve manifolds with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	18	Nos	28,000.00	5,04,000.00
416	Supply of Pressure gauge including Low Range along with 2 valve manifolds, gauge saver with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	3	Nos	30,500.00	91,500.00
417	Supply of temperature element (RTD) along with flanged thermowell mounted for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	27,000.00	1,35,000.00
418	Supply of Temperature Transmitter with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	7	Nos	53,000.00	3,71,000.00
419	Supply of skin type temperature element (RTD) for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I003), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	2	Nos	23,500.00	47,000.00
420	Supply of Local control panel with all accessories as per Data sheet (P.017110 G 11087 I011), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, SAT of local control panel,supports/ frame fabrication, earthing and screwing plug for unused entries, painting and integration with RTU. Termination of all Other panel SCADA hard wired signal including RS-485 signals through LCP for RTU/SCADA by Bidder. 1. Digital Barriers 2. Analog Barries 3. Relays 4. three poisition selector switch 5. LED indication lamps 6. Push buttons 7. terminal blocks 8. internal wiring 9. MCBs 10. Door switches 11. cooling Fan 12. LED lights	2	Nos	10,35,000.00	20,70,000.00
421	Supply of Ex-proof junction box with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, iincluding Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.	4	Nos	30,500.00	1,22,000.00
422	Supply of Corrosion Monitoring system with corrosion coupon, Corrosion probe, transmitter and digital indicator (mounted in LCP) as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				

Prepared Checked Approved

TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. POTALIYA ENTERPRISES

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
423	Corrosion coupon along with accessories.	2	Nos	1,00,000.00	2,00,000.00
424	Corrosion probe along with transmitter, digital indicator, barriers and accessories.	2	Nos	1,20,000.00	2,40,000.00
425	Supply of Conventional Type Microprocessor based fire detection system along with smoke detector, heat detector, cabinet, manual call point, Independent 24 Hrs battery backup with 15 min in alarm state, repeater panel and Electrical Operated Siren, exit signs and cables fromsensor ,MCP, siren, hooter to controller as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
426	Controller along with cabinet along with cabling	1	Nos	2,35,000.00	2,35,000.00
427	Multisensor (smoke & heat)	10	Nos	6,000.00	60,000.00
428	WP IP 65 Manual call points	6	Nos	5,400.00	32,400.00
429	Ex Proof and WP IP 65 Manual call point	1	Nos	27,000.00	27,000.00
430	WP Hooter & Flasher	1	Nos	23,000.00	23,000.00
431	Repeater panel	1	Nos	1,23,000.00	1,23,000.00
432	Exist sign	6	Nos	15,500.00	93,000.00
433	Electrical siren Exd	1	Nos	40,500.00	40,500.00
434	24 Hrs battery backup	1	Nos	10,000.00	10,000.00
435	Supply of Conventional type gas detection system along with controller, ex proof point gas detectors, beacon hooter, flasher, , cabinet, portable gas detector, calibration kit, alignment kit as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
436	Controller with cabinet	1	Nos	2,80,000.00	2,80,000.00
437	Point gas detectors	12	Nos	1,60,000.00	19,20,000.00
438	Panel Mounted hooter	2	Nos	20,500.00	41,000.00
439	Dual tone Hooter & Beacon Ex"d" with reset push button	2	Nos	26,800.00	53,600.00
440	Portable gas detecotrs	1	Nos	1,23,000.00	1,23,000.00
441	Calibration kit	1	Nos	1,09,000.00	1,09,000.00
442	Ex d Junction Box	2	Nos	26,800.00	53,600.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. POTALIYA ENTERPRISES

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
443	Supply of Universal type Hand Held Configurators for transmitters with carrying case, rechargeable batteries (one working and one standby), and battery charger as per Data sheet,PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work	1	Nos	6,87,500.00	6,87,500.00
444	Supply of Instrumentation signal cable, control cable, communication cable/LAN cable, Power cables along with all sizes cable glands (WP & Exd), PVC hood, lug, ferrule, etc including Cable laying (buried as well as tray) along with termination, glanding, meggering and loop checking including supply of ferrule, lugs, cable tie, cable clamp, cable marker etc. as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.				
445	1Px 1.5mm2	500	MTRS	140.00	70,000.00
446	12Px 0.5mm2	900	MTRS	780.00	7,02,000.00
447	1Qx1.5mm2	30	MTRS	220.00	6,600.00
448	12Tx1.5mm2	200	MTRS	1,120.00	2,24,000.00
449	1Tx1.5mm2	180	MTRS	200.00	36,000.00
450	6Px0.5mm2	200	MTRS	530.00	1,06,000.00
451	2Px1.5mm2	200	MTRS	210.00	42,000.00
452	Cat 5 (LAN)	160	MTRS	220.00	35,200.00
453	3C x 2.5mm2	240	MTRS	280.00	67,200.00
454	Supply & laying of Instruments cable tray with tray cover (Branch Cable tray (50mm x 50mm), Main cable tray 900 mm, cable tray 300mm, cable tray 150 mm.) as per requirement, instruments/ PGD, CCTV/ mounting poles, instrument protection sun sheds, angles, channels, MS plates & all the erection materials and as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including installation of support, cable clamping, installation of tray cover and support painting.	1	LS	5,23,000.00	5,23,000.00
455	Supply , installation & laying of tubes and fittings as per requirement and as per PTS-Instrumentation with appendices and Scope of Work C&I. SS 316L TEE (1/2", Class 3000#, Screwed, NPTF, Seamless) ,SS316L GLOBE/BALL VALVE (1/2", Class 800#, Screwed, NPTF, Seamless), SS316L PLUG (1/2", Screwed, NPTM, Hex head, class 3000#), SS316L PIPE NIPPLE (½" NPTM, seamless, schedule #160) Length of the pipe nipple as per requirement, SS316L MALE CONNECTOR (1/2" OD x 1/2" NPTM), SS316L FEMALE CONNECTOR (1/2"OD x 1/2" NPTF), SS316L UNION (1/2" OD), SS316L TUBE (1/2" OD x 0.065" WT), SS316L TUBE (1/4" OD x 0.035" WT)	1	LS	6,25,000.00	6,25,000.00
456	Supply of mandatory spares as per Mandatory Spare **(P.017110 G 11075 I001)**	1	LS	1,56,000.00	1,56,000.00
457	**AT Bokaro** Installation of metering skids, metering cabinet under the supervision of skid supplier, cable laying and terminal of cable from skid junction box to metering system cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	1,78,000.00	1,78,000.00
458	**AT Bokaro** Installation of gas chromatograph skid, analyser & controller cabinet under the supervision of skid supplier, cable laying and terminal of cable from analyser cabinet to controller cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	98,000.00	98,000.00
459	**AT Bokaro** Installation of H2S & Moisture analyser skids, cabinet under the supervision of skid supplier, laying and terminal of cable from skid field mounted cabinet to LCP/RTU. Including supply of all the required erection, fabrication and civil materials.	1	LS	98,000.00	98,000.00

Prepared Checked Approved

TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**			**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**
M/s. POTALIYA ENTERPRISES					
S. NO.	**WORK DESCRIPTION AND SUPPLY**	**UNIT**	**QTY**	**PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR**	
460	**Sub-Total Section F**				**1,10,86,600.00**
461	**SECTION-G [TELECOM WORKS]**				
462	**AT SV 01** Supply of Input out puts cards in existing Remote Terminal unit along with internal wiring at site and configruation of new parameters in existing RTU as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, Installation of Input out puts cards in existing Remote Terminal unit along with internal wiring at site, interfacing with LCP and configuration of new parameters in existing RTU, as per Scope of Work at SV 01				
463	32 channels digital input cards	1	Nos	1,00,000.00	1,00,000.00
464	16 Channel digital output cards	1	Nos	60,000.00	60,000.00
465	12 channel Analog input cards	1	Nos	40,000.00	40,000.00
466	Supply Telecommunication system, SDH equipment STM-4 Based SDH Cabinet of (2000H x 800W x 800W along with 100 mm base frame) as per below configuration: - 2*STM-4 + 2*STM-1 + 8FE ports as per PTS-Telecommunication system (P.017110 G 11077 I002), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including erection, testing, integration with existing NMS at Noida, Commissioning and integration with existing telecom system at SV 01 additional SFP of L4.2 for SV 01 connectivity	1	Nos	1,00,000.00	1,00,000.00
467	Supply of CCTV-IP based Fixed colour camera and PTZ colour camera along with power cable, communication cable at each station as per PTS-Telecommunication system (P.017110 G 11077 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work., including erection, testing, integration with existing VMS at Noida, Commissioning and integration with existing telecom system at SV 01				
468	Fixed Camera WP IP65	1	Nos	25,000.00	25,000.00
469	PTZ camera WP IP65	1	Nos	35,000.00	35,000.00
470	Supply of one Analog phones control room, one number in guard room and one number WP IP66 in field safe area as per PTS-Telecommunication system (P.017110 G 11077 I002) , PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work				
471	Analog Phone	2	Nos	2,500.00	5,000.00
472	Analog Phone Ex Proof WP IP 65	1	Nos	5,000.00	5,000.00
473	FXO cards	1	Nos	10,000.00	10,000.00
474	FXS	1	Nos	10,000.00	10,000.00
475	Five pair armoured telephone cable, size 0.5mm2	100	MTR	50.00	5,000.00
476	**AT Bokaro** Free issue RTU by GAIL: Transportation from Gail store to site location, installation, cabling from LCP to RTU, commissioning etc. Erection, installation of RTU inside the station control room including supply of all the required erection materials, fabrication and civil works	1	LS	1,00,000.00	1,00,000.00
477	**Sub-Total Section G**				**4,95,000.00**
478	Total of Section A + B + C + D + E + F + G				**34,07,37,395.00**

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. POTALIYA ENTERPRISES

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
479	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Total of Section A + B + C + D + E + F + G above	18	percentage		6,13,32,731.10
480	Rate of Extended Stay Compensation per month beyond the time schedule and grace period mentioned in Bidding document for reasons solely attribute to Owner (exclusive of GST) Notes:- 1;- Extended Stay Compensation shall be loaded on the quoted price as per evaluation methodology. 2;- In case, no rate for extended stay compensation is stipulated, it will be considered that extended stay compensation is not required by the Bidder and the rates quoted by them shall be valid till completion of works in all respects.	1	Nos		10,00,000.00
481	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Extended Stay Compensation at Sl. No. 480 above	18	percentage		1,80,000.00
	Grand Total				40,32,50,126.10

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**			**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL**	**Rev.00** **Date-11.02.2022**
				Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**
M/s. SHAKTI ENGINEERS					
S. NO.	**WORK DESCRIPTION AND SUPPLY**	**UNIT**	**QTY**	**PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR**	
				UNIT RATE	**TOTAL RATE**
1	**SECTION-A (MAIN LINE WORKS)**				
2	**CH.0.00 KM to CH.23.436 KM**				
3	**MAINLINE, PIPING AND MECHNICAL**				
4	**PIPELINE LAYING / INSTALLATION** Laying/ installation of coated line pipe, associated fittings and accessories, etc. as per specifications, drawings, other provisions of Contract and instructions of Engineer-in-Charge, including but not limited to carrying out the following: "Receiving and taking-over", handling, loading, transportation and unloading of Owner supplied coated and bare line pipes and other Free Issue Materials from Contractor's own stock-yard to Work site including stringing on the pipeline Right-of-Use (ROU), Arrangement of all additional land required for Contractor's storage, Performing the additional survey wherein survey data is not sufficient in the opinion of Contractor, arrangement of working RoU if RoU width is not sufficient for equipment/ vehicle movement etc., access for construction (other than Owner provided ROU; Developing necessary access way to the worksite, including earth filling, levelling, etc.; supply of all materials (except Owner supplied materials), supply of all materials, consumables, equipment, labour, etc.; fabrication, Staking and installation of construction markers, clearing, grubbing, grading (as required) of Right of Use; clearing and grading of ROU; Cutting/ uprooting of shrubs, plants, vegetation within ROU; , Trenching to all depths and to a width to accommodate the pipeline with optical fiber cable (inside HDPE Duct) by excavation in all types of soil (in case of hard rock, additional payment for hard rock breaking will be paid as per separate SOR line item), including additional trenching for seismic and other areas as specified,(Rate for laying of optical fibre cable and HDPE Duct not be included here and same to be quoted against separate SOR item); Carrying out repairs of pipe and coating defects not attributable to Owner; Thorough internal cleaning of all pipes by suitable methods to remove debris, shots, grits etc.; Stringing of line pipes along ROU including providing straw bags, soft padding/sand padding; Aligning, cold field bending, cutting and beveling (as required) of pipes for welding and field adjustments, NDT & NDT of re-beveled area, welding, carrying out destructive & non- destructive testing of welds required as per approved NDT specifications (including radiography) and providing all requisite equipment, labour, supervision, materials, films, consumables etc.; carrying out repairs of weld joints as required, carrying out re- radiography and other non-destructive tests on repaired joints, etc.; Installation of carrier pipe including concrete coated pipes (wherever required),				
5	(Concrete Coating on pipes, covered separately) at all crossings including roads/ canals/ nala/ water crossings etc. (supply and installation of casing pipe by open cut or by Jacking/ boaring method covered separately) including pre-testing as required; Carrying out installation of carrier pipe in the casing pipe at cased crossings; Coating of all field weld joints, long radius bends (fabrication of Cold field bends covered here and fabrication of 6D bends by induction heating covered separately), buried fittings etc.; Supply & Installation of warning tape along the entire length of Pipeline including Crossing. Lowering the pipelines in trench, providing required padding over and around the pipeline with sand/graded material (in rocky areas), backfilling with available approved excavated material and/or other suitable soil (supply and providing of soft soil for pre & post padding in Rocky area); Supply and installation of slope breaker as per specifications and drawings in steep slope areas, wherever required; Carrying out hydrostatic testing including air cleaning, flushing, filling, gauging, pressurization of complete pipeline in various test sections as approved by Engineer-In-Charge to the specified test pressure, providing all equipment, pumps, fittings, instruments, dead weight tester, all types of pigs etc., and services, supervision, labour, consumables, arranging water required for hydrostatic testing including supply of corrosion inhibitor, air, etc. as required, locating of leaks and rectification of defects attributable to Contractor, re-testing after rectification, successful completion of hydro-testing of pipeline (De-watering covered else where in the SOR); including all tie-in(s) with the pipeline/ piping installed by others including cutting of test header, re- beveling as required; Carrying out all temporary, ancillary, auxiliary works and all incidental works required to make the pipeline ready for pre- commissioning; Carrying out EGP for the entire stretch of completed pipeline, Repair of defects recorded during EGP/gauge plate run or otherwise including cutting, beveling, welding, NDT, field joint coating etc.; as applicable, Final clean-up and restoration of right of use including obtaining NOC from respective statutory authorities as required and disposal of debris and returning all surplus material to designated disposal areas/storage yard, as directed by Engineer-In-Charge; Restoration of land, facilities and boundary wall etc. at associated facilities dismantled/damaged by the Contractor during construction; Obtaining work permits/ NOC from various statutory authorities having jurisdiction and complying with all stipulation/conditions/recommendation of the said authorities; Preparation of as-built drawings, pipe-book and other records. SOR shall be read in conjunction with Project drawings, scope of work, specifications, standards and other provisions of contract document. The work includes the Survey data & site preparation, Stringing/Chainges in direction, Beveling of pipe element, Welding Procedure Qualification & Welders Qualification, Welding of pipe element, Inspection & testing of production welds, Field joint coating, controlled blasting, chiseling, etc., Material hand over & material handling, Lowering-in & ballasting, All crossings except HDD as mentioned in Crossing List (including installation of carrier pipe inside the Casing at cased crossing) , Backfilling (for all depths in all types of soil, soft /hard rock) , including trench padding with sand, graded earth in rocky areas & rock shield(if required as per specs) reinstatement (restoration) and preparation of As-built Alignment & Crossing drawings.				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010			PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
				Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. SHAKTI ENGINEERS

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
6	All above works shall be executed in accordance with scope of work, GTS, PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. 1. Supply and Installation of OFC and HDPE Ducts along the entire pipeline route, adjacent to the new pipeline, along with all required accessories, fittings and associated items, is covered separately in the SOR. All above works for buried pipeline (including hook-up pipeline from Tap Off Point inside ONGC GCS, Bokaro upto proposed plot for GAIL DT), as per following details :				
7	ND12", API5L X70 - 6.4 mm	6500	M	4,700.00	3,05,50,000.00
8	ND12", API5L X70 - 7.1 mm	15850	M	5,000.00	7,92,50,000.00
9	ND12", API5L X70 - 8.7 mm	150	M	5,200.00	7,80,000.00
10	**Concrete slabs (Mechanical Protection) as per technical specifications** Supply, fabrication and installation of reinforced concrete weights. Reinforced steel size should be 8 mm. top and bottom at a rate of 200 mm c/c of precasted RCC 1:2:4 on pipeline of wall thickness of 75 mm thick and size as per specifications & Standard drawings and instructions of Owner/ Owner's representative including supply of consumables, materials, equipment, labor, supervision, all associated civil works.	382	M	1,500.00	5,73,000.00
11	**Continuous Concrete Coating** Supply of all consumables and materials, equipments, manpower, submission of application procedure with calculations for anti-buoyancy, design mix procedure qualification and application of continuous concrete weight coating thickness mentioned below (higher also, in case design requirements) on pipeline of all thickness, concrete weight coating of the field joints thereof, and performing all works as per specifications and instructions of Owner/Owner's representative and other provisions of CONTRACT DOCUMENT.				
12	35 mm thick	12	M	6,000.00	72,000.00
13	50 mm thick	12	M	8,000.00	96,000.00
14	**GEO TEXTILE BAGS FOR ANTI-BUOYANCY**				
15	Additional works over and above item no. 4 to 9 for design, manufacture and supply of Non-biodegradable geo-textile bags and installation of geo-textile bags duly filled with gravel/ stone ballast on pipelines of all wall thicknesses for anti-buoyancy, drawings, scope of work and instructions of Engineer-in-Charge and other provisions of the Contract document. Note: This item shall be applicable for Some crossings as per instructions of Engineer-incharge.				
16	ND12" (for all thicknesses)	12	M	3,000.00	36,000.00
17	**Permanent Markers** Supply, fabrication and installation of following types of permanent markers along the pipeline route including all associated civil works such as excavation in all types of soil, construction of pedestals and grouting with concrete, clearing, supply & application of approved color and quality of primer and paint, stencil letter cutting for numbers, direction, chainage, etc. restoration of area to original condition and performing all works as per drawings, specifications and instruction of Owner/Owner's Representative.				
18	Pipeline Warning Signs	35	Nos	8,000.00	2,80,000.00
19	Right-of-way boundary markers	94	Nos	2,000.00	1,88,000.00
20	Kilometer Markers	19	Nos	9,000.00	1,71,000.00
21	Aerial Markers	4	Nos	11,000.00	44,000.00
22	Navigable Waterway Markers	8	Nos	8,000.00	64,000.00
23	Directional Markers	297	Nos	7,000.00	20,79,000.00
	Repair of Defects in Pipe Coating (Attributable to OWNER)				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. SHAKTI ENGINEERS

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
25	**Repair of Line Pipe Coating:** Supply of all coating repair materials as per the requirements of the relevant specifications, supply of all consumables, utilities, equipment, and all manpower required, pipe cleaning and surface preparation, repairing of coating defects (resulting in holiday in coating) and testing including all handling, transportation, etc. for line pipes, performing all works necessary for the completion of the works strictly in accordance with the relevant specifications and instructions of OWNER.				
26	**Repair of Holidays in Coating**	40	Nos	300.00	12,000.00
27	Repair of Cosmetic Defects in Coating: Description of same as in 25 above, but for repair of cosmetic defects in coating.	80	m2	2,500.00	2,00,000.00
28	Repair of Defects in Line Pipes				
29	Repair of OWNER supplied pipes of all wall thicknesses, recorded at the time of taking-over by CONTRACTOR at all places of work.				
30	Cutting and rebevelling	25	Nos	800.00	20,000.00
31	Jack out method	25	Nos	600.00	15,000.00
32	All works for locating burst (occurred during hydrostatic testing and tightness test attributable to Owner issued materials) including detecting burst, necessary repairing/replacing defective pipe lengths, including cutting out and removing the defective pipe, pretesting the replacement pipe, welding of replacement pipe into mainline and NDT of welding, repair and re-testing of defective welds, coating of welded joints, cleanup, retesting including providing all labor, materials, consumables and inputs other than OWNER supplied materials and performing all works as per drawings, specifications and directions of Owner/ Owner's representative. In case of pinhole leaks not easily detectable all works for locating leak (occurred during mechanical resistance test and tightness test attributable to Owner issued materials) including detecting leak, The Payment will be made as per actual efforts and based on Equipment and manpower Rate provided in SCC . Further replacement & retesting will be paid as above.	2	Per burst	75,000.00	1,50,000.00
33	**LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER) (FOR TERMINAL PIPING)** **LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER DUE TO FIM)** All works for leak/burst (occurring during hydrostatic testing) by necessary repair/replacement of defective pipe length, including cutting and removing out defective pipes, welding, NDT of welds, repair and re-testing of defective welds, painting of welded joints, clean-up, re hydro testing of the pipe segment including providing all necessary equipment, labour, materials, consumables and inputs other than Owner supplied materials and performing all works as per drawings, scope of work, specifications, standards enclosed with the Contract and directions of Engineer-in-Charge. Note: 1. This rate shall be applicable for manufacturing defects in Company supplied materials only.	18	Inch-meter	1,100.00	19,800.00
34	**IDLE TIME PRESERVATION OF PIPELINE** Preservation of complete pipeline and associated facilities and its maintenance including supply of all consumables, all equipment, man- power, etc., complete as per the requirements of specifications, scope of work, standards, other provisions of Contract document and instructions of Engineer-in- Charge. By filling and pressurizing with nitrogen including supply and maintenance of nitrogen as per following details:				
35	Pipe OD - 12 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - 3 MONTH	23800	M	175.00	41,65,000.00
36	Pipe OD - 12 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - FOR EVERY ADDITIONAL MONTH BEYOND INITIAL 3 MONTHS	23800	M	225.00	53,55,000.00
37	PRE-COMMISSIONING FOR NATURAL GAS PIPELINES SYSTEM, Carrying out pre-commissioning activities and pre-commissioning checks to the specified acceptance criteria, making the entire pipeline system ready for commissioning (It includes cleaning including magnetic cleaning, Electrical Geometrical Pigging survey, dewatering, swabbing,, pre-drying activity, Golden-tie ins connecting the stations),, supply of all equipment, man-power, consumables, including all type of pigs and required quantity of nitrogen, materials for all temporary works and performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.				

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M/s. SHAKTI ENGINEERS

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38	Pipe OD - 12 INCH	23800	M	145.00	34,51,000.00
39	**Commissioning Assistance**				
40	**OVERALL COMMISSIONING OF ENTIRE PIPELINE SYSTEM** Overall commissioning including system checks, inertisation (as required) and charging of entire pipeline system, including all stations and all associated facilities including notifying the Company that the pipeline system is ready for commissioning; Review of status jointly with the Company and obtaining final clearance for start of commissioning; Development and submission of commissioning procedures, obtaining Company approval thereupon, carrying out overall commissioning of the total pipeline system including all facilities and all necessary coordination/ liaison with other Contractor(s) operations; Carrying out commissioning; Supply of all equipment like Nitrogen vapourisers (as required), along with all piping and instruments, temporary venting/ flaring/draining facilities as applicable, man-power, consumables including pigs and required quantity of Nitrogen (as required); Performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.				
41	Pipe OD - 12 INCH	23800	M	75.00	17,85,000.00
42	PIPELINE INFORMATION MANAGEMENT SYSTEM Providing pipeline information management system using web based software for monitoring pipeline construction progress and providing all "As Built" data & drawings for entire length of pipeline as per specifications enclosed with the tender document.	1	LS	1,50,000.00	1,50,000.00
43	VIDEO FILM & PHOTOGRAPHY OF CONSTRUCTION ACTIVITIES Preparation of high resolution video films with audio commentary and Industrial photography covering all aspects/activities of pipeline construction annotated as required, conversion of same to video DVD/Blue Ray format, submitting three (3) sets of the same as per details in scope of work document	1	LS	2,25,000.00	2,25,000.00
44	**FABRICATION OF LR BENDS :**				
45	Fabrication of 6D bend / LR (Induction) bends as per the relevant standard & Specification attached with the tender document from free issue linepipes (mother pipe) including but not limited to the following: "Receiving and taking over of free issue linepipes" from GAIL Dump Yard location as mentioned in Scope of Work, carrying out inspection of line pipe at the time of receive taking over in the presence of Company representative, carrying out repair of pipe defects attributable to Contractor after taking over, including supply of consumables & equipments; handling, hauling, transportation and loading/unloading required to transport the mother pipes between place of issue, LR bend fabricator/ manufacturer, intermediate storage as required, and final delivery of fabricated LR Bends to the worksite(s), as per requirement, Manufacturing/ fabricating of LR Bends, as per project requirements and Specifications. LR bends exact angle(s) shall be as per pipeline alignment. Note:- 1. Rate for repairing of defects in linepipes identified and recorded at the time of receiving & taking over i.e. defects attributable to Company shall be quoted separately in the applicable items of the SOR. 2.Loading of Pipe into installation contractor trailer shall be carried out by the GAIL Dumpyard maintenance agency already engaged by the Company.				
46	Bare Pipe ND12", API5L X70 - 7.1 mm	18	Nos	50,000.00	9,00,000.00
47	Bare Pipe ND12", API5L X70 - 8.7 mm	22	Nos	60,000.00	13,20,000.00
48	**SUPPLY AND INSTALLATION OF CASING PIPE & 6 INCH CS CONDUIT:** Supply and installation of casing pipe and 6 inch CS conduit for OFC by jacking / boring or open cut for rail, road or canal crossings wherever required in all types of soils and terrain separately for carrier pipes and fibre optic cable inside HDPE duct, supply of casing pipes and all other Contractor supplied materials viz. casing insulators and casing end seals as per enclosed drawing, materials for casing vents and drains, etc. including transportation, supply of all other materials, equipments, consumables, man-power, welding including visual inspection of all weld joints, installation of casing insulators, end seals, vents and drain-off pipes, backfilling and restoration as original of the facility crossed and performing all works as per drawings, specifications including PTS and GTS and instructions of Engineer-in Charge and provisions of Contract document.				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
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49	Supply and installation of Casing pipe by Boring / Jacking as per item no. 48 (Other than Railway Crossings) Casing Pipe Details: (Pipe 18" , 6.4 mm Thick, API 5L GR.B)	100	M	35,000.00	35,00,000.00
50	Supply and installation of 6 inch CS Conduit by Boring/Jacking as per item no. 48 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	100	M	14,000.00	14,00,000.00
51	Supply and installation of Casing pipe by open cut as per item no. 48 Casing Pipe Details: (Pipe 18" , 6.4 mm Thick, API 5L GR.B)	100	M	20,000.00	20,00,000.00
52	Supply and installation of 6 inch CS Conduit by open cut as per item no. 48 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	100	M	6,000.00	6,00,000.00
53	**HDD CROSSING**				
54	**Generalities**				
55	Topographic / Bathymetry, Geotech Investigation and Hydrological data collection				
56	Site preparation				
57	Design & stress calculations as per requirement				
58	Material hand-over and material handling				
59	Site reinstatement				
60	Final dossier including all notes & calculations as required in the specification				
61	**Installation of 6 inch CS Conduit**				
62	Teletransmission--Separate Drilling for 6 inch CS Conduit for OFC installation				
63	Installation of HDPE duct & OFC cable inside 6 inch CS conduit				
64	Drilling & Pulling of 6 inch CS Conduit shall be done before mainline HDD.				
65	**Pipeline string**				
66	Beveling & welding				

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67	Inspection & testing of welds				
68	Field joint coating				
69	Temporary support (roller)				
70	Control of pipeline string				
71	Hydrotesting & leak test				
72	**Drilling operation**				
73	Earthwork entry / exit points including grading erection of embankment etc..				
74	Supply & clearing out of all material needed for drilling				
75	Drilling of washer pipe, reaming & cleaning of drill opening, supply and preparation of bentonite				
76	Pull back of the pipe string				
77	Disposal of surplus of soil & bentonite				
78	Control of the integrity of the coating				
79	**Work at entry point**				
80	Changes in direction				
81	Beveling & welding				
82	Inspection & testing of welds				
83	Field joint coating & coating of all bare section of pipe				
84	Earthwork				
85	Lowering-in				
86	backfilling as required				
87	**Work at exit point**				

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88	Changes in direction				
89	Beveling & welding				
90	Inspection & testing of welds				
91	Field joint coating & coating of all bare section of pipe				
92	Earthwork				
93	Lowering-in				
94	backfilling as required				
95	Complete work for the water/ Road/ Rail crossings, including taking over and handling of linepipes from Contractor Storage Yard to worksite, Arrangement of all additional land required for Contractor's storage, fabrication, access for construction; construction design calculation and engineering of the crossing, mobilization and demobilization at site(s), supply of all materials as per "Scope of Supply" and all consumables, equipment, manpower and other resources, and acquiring the required land for site preparations, and execution of, but not limited to, the following works in accordance with specifications, drawings, and as per provisions of the Contract document and instructions of the Company/ Engineer-in- Charge: Carry out all surveys required for collecting data relevant to design and construction of the crossing, preparation of all necessary construction drawings for Company's approval as per the provisions of the Contractor document, Preparation of detailed construction method statement and calculations including Scour Depth calculations for river/ canal crossings, Strings preparation including welding, 100% Radiography of welds, NDT of welds and re-beveled areas, radiography, weld repair and re-test, pre-testing of completed string, corrosion coating of field joints with Dirax or equivalent, inspection of corrosion coating and repair of defects, Preconstruction surveys and collection of all necessary data, Installation of pipeline and CS conduit (6 Inch CS Conduit shall be installed through Seperate Drilling) , horizontal directional drilling to the correct profile as per approved drawings and specification, Post-installation hydrotest including leaks and repair of defects and retesting, etc. for defects attributed to Contractor's faulty work, Supply, fabrication and construction of protective fencing as required, Hydrotesting, Supply, fabrication and erection of pipeline markers, Restoration and clean-up etc., Preparation of as-built drawings and other records etc., All other works not specifically listed herein, but required as per specifications, drawings, provision of contract document, calculations, and construction method statements, leading to successful completion of works.				
96	Linepipe details:- (Pipe 12" dia, Wall Thickness: 7.1 mm, Pipe Grade: API 5L GR.X-70 PSL 2, External Coating: 3LPE) CS Conduit details: (Pipe 6" dia, 6.4mm Thick, API 5L GR.B) Note: 1. CS Conduit shall be supplied by the Contractor. Radiography & Hydrostatic testing is not required to be done for CS Conduit. (6 Inch CS Conduit shall be installed through Seperate Drilling) Contractor shall quote accordingly. 2. The rate shall be applicable for the drilled length of the HDDs.	1300	M	32,000	4,16,00,000.00
97	All above works shall be executed in accordance with scope of work, GTS,PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. This line item is applicable for HDD crossing mentioned in the Crossing List with prior approval of Engineer - In-Charge during Construction.				
98	**SUPPLY & INSTALLATION OF OPTICAL FIBBE CABLE AND HDPE DUCT**				
99	Suppy of 24 Fibre Composite armoured Optical Fibre Cable drum (6 fibre G-655 & 18 fibre G-652) of 4 km +/-5% Cable drum length with fiber terminal closure, inspection chamber, electronic route marker all along pipeline route, Two number electronic locater as per PTS-Optical Fibre cable and Scope of Work C&I along with all required accessories and fitments not mentioned seperately.	26200	M	165	43,23,000.00

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100	Inspection/Jointing Chamber (fabricated or readymade)	8	Nos	15,000	1,20,000.00
101	Blowing Pit (fabricated or readymade)	25	Nos	11,000	2,75,000.00
102	Supply of jointing closure 24 Fiber, 2 way including all accessories (3M, Siemens, Reychem make only)	10	Nos	8,000	80,000.00
103	Supply of End to End OFC termination of wall mounted FTC with pig tails other accessories for termination of OFC - 24 Fibre in the Telecom Room at Bokaro & SV1	2	Nos	60,000	1,20,000.00
104	Electronic marker	8	Nos	15,000.00	1,20,000.00
105	Electronic Locator	1	Nos	2,50,000.00	2,50,000.00
106	Supply of 50mm OD permanently lubricated HDPE telecom duct along with all the required accessories as per PTS-Optical Fibre cable and Scope of Work C&I	26700	M	125.00	33,37,500.00
107	Laying of HDPE Duct : Laying of 50mm HDPE Ducts in same pipeline trench direct buried, or inside 6 inch CS conduit at various crossings as per Specification in all type of soil & terrain, excavated as required, padding, backfilling, etc. including supply of accessories required for HDPE Duct installation, including plastic couplers, end plugs, cable sealing plugs, end caps, etc. suitable & sufficient for above supplied ducts, cleaning and sealing of ducts at the end laid drum lengths, preparation and supply of cable blowing pit at each Km jointing of HDPE duct, testing of HDPE Duct and accessories after laying preparation of report and final drawing and documents as per specification, joint location marking, erection accessories, as-built, etc.	22500	M	95.00	21,37,500.00
108	Blowing of Optical Fibre Cable inside HDPE Duct : All activities pertaining to Blowing of Optical Fibre Cable in same pipeline trench directly (after testing drum at site), inside HDPE duct along the pipeline and at crossing, sealing using all materials required as per specification	22500	M	105.00	23,62,500.00
109	Installation of FTC & Wire mesh, termination of OFC on FTC / DDF inside telecom room, splicing with steet fibre, fibre test, OTDR test, power testing of laid OFC, identification of fault, rectification, earthing, final testing and commissioning, preparation of reports, etc. work complete in all respect with all necessary accessories for all location till final Handing Over and Taking Over by Owner of laid OFC.	1	LS	1,00,000.00	1,00,000.00
110	**TRANSPORTATION OF COATED AND BARE LINEPIPES FROM GAIL DUMPYARDS (ANY LOCATIONIN INDIA) TO CONTRACTOR STORAGE YARD:**				
111	"Receiving and taking over" of "free issue" Linepipes from GAIL Dump Yard location (any location in India); Carrying out inspection of Linepipes at the time of receiving and taking-over, recording of pipe & coating defects at the time of taking over in the presence of Company's representative, carrying out repair of coating defects & pipe defects attributable to Company; including supply of materials, consumables & equipments; handling, hauling and transportation from designated place of issue to Contractor Storage Yard; unloading and stacking of the linepipes at Contractor Storage Yard; including arranging all equipments, trailers, trucks & manpower; all works as per Scope of Work, drawings, PTS, GTS and other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, Provision of Contract & instructions of Engineer InCharge.				

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112	Linepipe Details:- Coated and Bare Line Pipe 12" diameter API 5L Gr. X-70 PSL-2 Wall Thickness - 6,4mm / 7.1mm / 8.7 mm External Coating - 3LPE, Internal Coating - Liquid Epoxy 1) Loading of Pipes into Installation contractor's trailer shall be carried out by the contractor. 2) Development & Maintenance of Contractor Storage Yard adequate to store the linepipes including arrangement of all Lifting & Handling equipment at Contractor's Storage Yard shall be done by the Contractor. Rate for the same shall be quoted in applicable items. 3) Rate for repairing of coating defects in linepipes identified and recorded at the time of receiving & taking over i.e. coating-defects attributable to Company shall be included in this item. 4) Rate for repairing of pipe-defects identified and recorded at the time of receiving & taking over i.e. pipe-defects attributable to Company shall be quoted separately in the applicable items of the SOR. 5) Transportation of line pipe from Contractor's Storage Yard to work site is included in SOR item 1 above, No separate payment will be applicable for the same.	220000	Ton-Km	48.00	1,05,60,000.00
113	**TRANSPORTATION OF FREE ISSUE PIPING ITEMS (OTHER THAN LINE PIPE) FROM GAIL STORAGE YARDS (ANY LOCATION IN INDIA) TO CONTRACTORS YARD / WORKSITE(S) :** "Receiving and taking-over", handling, lifting, loading, transportation and unloading of Company supplied "free-issue materials" (Other than line pipe) viz. Metering Filtering and PRS Skid, Scrapper Launcher/ Receiver & accessories, Valves with or without Actuators, Insulation Joints, Flow Tee, Pig Signallers, fittings, flanges etc. from GAIL Storage yards location (any location in India) to Contractor's Storage Yard / work-site(s). Note:- 1) Location of GAIL Storage Yard shall be anywhere in India. Contractor shall quote accordingly. 2) Transportation of FIM from Contractor's Storage Yard to work site, is included in SOR item 121 below, No separate payment will be applicable for the same.	15000	Ton-Km	41.00	6,15,000.00
114	**DEVELOPMENT OF CONTRACTOR STORAGE YARD:**				
115	Development of the Contractor Storage Yard including fencing, illumination etc., including deployment of all lifting and handling equipments, manpower required to stack, unload and load all Free Issue Material (FIM) including Line Pipes and all bought out items, as required; storage of all Free Issue Material and bought out items for the required duration as per project requirement, all works as per Scope of Work, drawings, other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, PTS, GTS and Provision of Contract & instructions of Engineer In-Charge. The storage yard shall be used for storage of all Free Issue Line pipes, all other Free Issure Material (FIM) and all bought out items required for the project. Notes:- 1) Development of contractor storage yard adequate to store all the material required for Project, including all Free Issue Material (FIM) and bought out items. (Rate for the same shall be captured in this item) 2) Maintenance of contractor storage yard for the entire project period is included in the scope of contractor. No separate payment shall be applicable for the same.	1	LS	8,00,000.00	8,00,000.00
116	Hard Rock breaking by controlled blasting / chiseling method (rate will be applicable in case when prior approval for rock breaking is obtained by the contractor from GAIL / PMC)	100	M3	2,500.00	2,50,000.00
117	Clean Agent Fire Supression System as per Scope of Work	1	LS	1,25,000.00	1,25,000.00
118	Restoration of underground utilities (pipes & cables) during excavation at ONGC, GCS Bokaro and Receiving Station (which is inside SV-01 Premises)	10	Nos	50,000.00	5,00,000.00
119	**Sub-Total Section A**				**20,71,26,300.00**
	SECTION-B [MECHANICAL (PIPING & TERMINAL WORKS)]				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. SHAKTI ENGINEERS

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
121	**PIPING WORKS AT DESPATCH AND RECEIVING STATIONS AND HOOK-UP WITH ONGC GCS, BOKARO** All works for installation of all piping at all elevations for Despatch and Receiving Stations as indicated in Drawings, Scope document, including supply of all consumables, Gaskets, nuts, bolts Studs, manpower, materials and equipment (except Company supplied free-issue materials), aligning, grouting, tie-in with pipeline and carrying out all mechanical works of underground and above ground piping including fabrication, welding, installation of all pipes, valves (manual & actuated), flanges, fittings, flow tees, pig signalers, insulating joints, corrosion monitoring probes /corrosion coupons, installation of instruments (pressure/temperature gauges, vents, drains-off, safety relief valves, electro hydraulic valves etc.) as indicated in P& IDs and GADs. 100% Radiography of weld joints of piping above 1.5 inch, Magnetic particle & Die penetration test for piping 1.5 inch & below, all NDT of welds, weld repairs/retesting, hydrostatic testing, cleaning/flushing, functional testing, de-pressurizing , Drying and dewatering, cutting and re-beveling (as required), hookup of all pipeline/utilities at the battery limit with the pipeline/utilities installed by others, obtaining all statutory clearances, approvals and permissions for the work (wherever required), excavation and filling in all types of soils including soft/hard rock for installation of piping/ pipe supports; corrosion coating and external painting (as required), finishing, clean-up and restoration of site, preparation of as- built drawings, documents and project records and performing all works as per drawings, specifications, other provisions of Contract document and instructions of Engineer-in-Charge. Civil/ structural works for piping supports will be paid separately as per unit rate provided elsewhere in the contract. Cost of Transportation of all materials (Including FIM mentioned above) for station works, from Contractor's own stock-yard to Work site, to be included in this SOR item. No separate payment will be applicable for the same.				
122	Fabrication and Erection of piping as per item no.110, (For Pipe Size 2 Inch and above, 100% Radiography) Note: 1. Rate for Handling, Fabrication and erection of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item. Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor.Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes 2" & above, shall also be part of this item. Contractor shall quote accordingly.	1900	Inch Dia Meter	1,500.00	28,50,000.00
123	Fabrication & Erection of Piping as per item no.110 (For Pipe Size Below 2 inch, Magnetic particle & Dye Penetration Test as per the requirement of specification)	50	Inch Dia Meter	3,000.00	1,50,000.00
124	Painting of Piping (Pipe, Fittings, Flanges, Valves, Equipments, etc.) as per item no. 110	1950	Inch Meter	300.00	5,85,000.00
125	Hydrostatic testing, cleaning / flushing, functional testing, de-pressurizing, dewatering & drying of Piping as per item no. 110 (for all size upto 12").	1950	Inch Meter	80.00	1,56,000.00
126	**INSTALLATION OF COMPANY SUPPLIED FIM (FML SKID AND PIG LAUNCHER/RECEIVER SYSTEM) AT DESPATCH TERMINAL AND RECEIVING TERMINAL**				
127	Installation of Company supplied Filtering, Metering and PRS Skid and Scrapper Launcher/ Receiver with accessories, at stations including all handling and installation works; as per drawings, specifications enclosed with the Contract and directions of Engineer-in-Charge. Cost of Transportation of above Free issue items, from Contractor's own stock-yard to Work site for station works, to be included in this SOR item. No separate payment will be applicable for the same.	1	LS	2,00,000.00	2,00,000.00
128	**CONTRACTOR SUPPLIED ITEMS:(Supply of Items as per attached PTS,GTS,Data Sheet,QAP and PMS)**				
129	**Station pipe -Seamless**				
130	1" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, PE, SEAMLESS	6	Meter	2,000.00	12,000.00
131	2" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	90	Meter	2,500.00	2,25,000.00
132	4" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	120	Meter	3,500.00	4,20,000.00
133	10" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	12	Meter	10,000.00	,00,000.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. SHAKTI ENGINEERS

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
134	12" pipe, 7.1mm thk, ANSI B 36.10, API 5L X 70,HFERW	84	Meter	12,000.00	10,08,000.00
135	**Supply of fittings & Flanges**				
136	1 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 350 LF2,CL1, BW, ANSI B16.25	4	Nos	300.00	1,200.00
137	1" WNRF FLANGES, 6C1, SCH. 160 / 600#, WNRF, B-16.5, ASTM A350 LF2, CL1, BW-ANSI B16.25 RF	4	Nos	400.00	1,600.00
138	1", BLIND FLANGES, 6C1, 600#, RF, B-16.5, ASTM A350 LF2, CL1, RF	4	Nos	250.00	1,000.00
139	3/4" EQUAL TEES, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25,	2	Nos	600.00	1,200.00
140	3/4", CUP THREADED 6C1, 6000#, ANSI B16-11, ASTM A 350 LF2, CL1 , BW - ANSI B16.25, ANSI B1.20.1,	3	Nos	600.00	1,800.00
141	**WELDOLETS (MAINLINE x BRANCH SIZE)**				
142	4" x 1", WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	4	Nos	4,500.00	18,000.00
143	12" x 2" WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 7.1 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 694 F70	5	Nos	8,000.00	40,000.00
144	12" x 2", WELDOLETS (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 7.1 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	35	Nos	8,000.00	2,80,000.00
145	**GASKETS**				
146	GASKETS, 6C1, 600#, RF, ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 1"	12	Nos	150.00	1,800.00
147	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 2"	210	Nos	200.00	42,000.00
148	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 4"	30	Nos	600.00	18,000.00
149	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 10"	2	Nos	3,000.00	6,000.00
150	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 12"	44	Nos	3,500.00	1,54,000.00
151	**NIPPLES**				
152	NIPPLES, 6C1, Sch 160 /600#, ANSI B 36.10, ASTM A333 GR.6, BOTH ENDS PLAIN, SEAMLESS-LG=100mm, 3/4"	10	Nos	150.00	1,500.00
153	NIPPLES, 6C1, Sch 160 / 600#, ANSI B 36.11, ASTM A333 GR.7, ONE END THRD -MNPT SEAMLESS- LG=100mm, 3/4"	8	Nos	600.00	4,800.00
154	**Supply of following Valves as Per attached PTS,GTS,Data Sheet,QAP,PMS & MTO**				
155	1",BALL VALVE - FULL BORE (RF) (ABOVE GROUND),6C1	6	Nos	6,000.00	36,000.00
156	3/4", CHECK VALVE (RF) (AG), 6C1	2	Nos	8,000.00	16,000.00
157	**3/4",NEEDLE VALVE, 6C1**	5	Nos	3,500.00	17,500.00
158	Note (Applicable for all items of SOR item No 128 to 157): 1. Before procurement of any of the above materials Contractor will take prior approval from GAIL / PMC. 2. Payment will be made for actual quantity used.				
159	**Sub-Total Section B**				**63,68,400.00**
160	**SECTION-C [CIVIL / STRUCTURAL & ARCHITECTURAL]**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. SHAKTI ENGINEERS

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
161	**CIVIL , STRUCTURAL & ARCHITECTURAL**				
162	**Earthwork excavation in soil**				
163	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	2900	cum	800.00	23,20,000.00
164	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth beyond 1.5m and upto and inclusive of 3.0m including Removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	70	cum	950.00	66,500.00
165	**Earthwork excavation in soft rock**				
166	Earth work in EXCAVATION below ground level for all kinds of works in SOFT ROCK and HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as irected including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	255	cum	1,250.00	3,18,750.00
167	**Backfilling after execution of work**				
168	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps within a LEAD OF 100M,including re-excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/ mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	1150	cum	300.00	3,45,000.00
169	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps beyond a LEAD OF 100M AND UPTO & INCLUSIVE OF 500M including re- excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	490	cum	450.00	2,20,500.00
170	**Transporting & Disposing the SURPLUS EARTH AND DEBRIS**				
171	Transporting and disposing the SURPLUS EARTH AND DEBRIS including shrubs and vegetations from construction areas to areas ANYWHERE OUTSIDE THE PLANT BOUNDARY, including re-excavating the deposited soil excavated earlier, loading, transportation, unloading, laying at all depths and heights, stacking,levelling and dressing both the area (viz. from where the earth is transported and where it is deposited) to required levels and slopes complete with all lifts as directed. For carting on the basis of truck measurements (volume of truck reduced by 30% for voids). DISPOSAL AREAS OUTSIDE PLANT BOUNDARY TO BE ARRANGED BY THE CONTRACTOR. Royalty as applicable for disposal outside plant limits to be borne by the Contractor	1310	cum	600.00	7,86,000.00
172	**EARTH WORK FILLING BY EXCAVATION**				
173	EARTHWORK IN FILLING by excavating the earth from BORROW AREAS arranged by CONTRACTOR for all leads, transporting the earth from borrow area including cleaning & stripping the earth at borrow areas, breaking clods, loading, unloading and laying at all depths and heights in layers of thickness not exceeding 15 cms., watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% of the maximum laboratory dry density, ressing, trimming, levelling the top surface etc. in foundations, plinths, trenches etc. all complete.	9555	cum	1,200.00	1,14,66,000.00
174	**PLAIN & REINFORCED CEMENT CONCRETE: (REFER SPECIFICATION NO. (Z/02/0004)**				
	PLAIN CEMENT CONCRETE - PCC				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. SHAKTI ENGINEERS

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
176	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:4:8 (1 cement : 4 coarse sand (Zone-III) : 8 graded stone aggregate 40 mm nominal size)	160	cum	7,500.00	12,00,000.00
177	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:3:6 (1 cement : 3 coarse sand (Zone-III) : 6 graded stone aggregate 40 mm nominal size)	22	cum	9,000.00	1,98,000.00
178	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:2:4 (1 cement : 2 coarse sand (Zone-III) : 4 graded stone aggregate 20 mm nominal size)	150	cum	11,000.00	16,50,000.00
179	Providing and laying PLAIN CEMENT CONCRETE for all depths below and upto plinth level in foundations, drains, fillings, non-suspended floors, pavements & ramps or any other works etc. including shuttering, tamping, ramming, vibrating, curing, etc. all as specified in any shape, position, thickness and finishing the top surface rough or smooth as specified and directed all complete for concrete grade M20 with 20mm and down size graded crushed stone aggregates/Gravels. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR	26	cum	12,000.00	3,12,000.00
180	**RCC WORKS**				
181	**SUBSTRUCTURE**				
182	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUBSTRUCTURE INCLUDING CENTERING & SHUTTERING) e.g. foundations, raft, beams, pile caps, Retaining walls, counterforts, buttresses, pedestals, pipe sleepers, columns, suspended floors, staircases, landings, steps, brackets etc., including equipment/ machine foundations & pedestals viz. compressors, generators, etc. (including single pour concreting as specified on the drawing), applying cement wash on concrete surface (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering, etc., wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT)for all depths below and upto plinth level in any shape, position and thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	1220	cum	12,000.00	1,46,40,000.00
183	**SUPER STRUCTURE- EXCLUDING CONTROL ROOM BUILDING, GUARD ROOM & BOUNDARY WALL**				
184	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUPER STRUCTURE INCLUDING CENTERING & SHUTTERING in suspended floors, slabs, beams, columns, walls including counterforts, staircases, landings, steps, facias, fins, mouldings, gutters, shelves, window sills, canopies, lintels, girders, ducts, brackets, chajjas with drip moulds, pedestals, posts, struts, equipment/ machine foundations, ramps etc. (including single pour concreting as specified on the drawing), providing cement wash (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT) FOR ALL HEIGHTS UPTO & INCLUSIVE OF 20 m ABOVE PLINTH LEVEL in any shape, position, thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	70	cum	13,000.00	9,10,000.00
185	**CONTROL ROOM BUILDING (SUPERSTRUCTURE)**				
186	Construction of Control Room Building as per drawings and specification. Building work for all Superstructure works INCLUDING CENTERING & SHUTTERING , Reinforcement , masonry work, partition wall, Plastering & pointing, flooring, Floor finishes, Door & windows, rolling shutter, false ceiling, all finishes, painting, roof treatment complete in all respect etc.)	215	m2	2,200.00	4,73,000.00
187	**GUARD ROOM (SUPERSTRUCTURE)**				
188	Guard Room as per drawings and specification. Building work for all superstructure works including (Reinforcement, masonry work Plastering & pointing, flooring, Floor finishes, Door & windows, painting, roof treatment, all finishes, water supply and sanitary work complete in all respect etc.)	17	m2	2,500.00	42,500.00
189	**HYD Bars / MS Bars**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

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190	Supplying and placing in position HIGH YIELD STRENGTH DEFORMED STEEL BARS REINFORCEMENT of Grade Fe500D TMT conforming to IS:1786, for RCC work (excluding control room building & Guard room & boundary wall superstructure) including transporting the Steel, straightening, cleaning, decoiling, cutting, bending to required shapes and lengths as per details, binding with 18 SWG black soft annealed binding wire at every intersection, supplying and placing with proper cover blocks, supports, chairs, overlaps, welding, spacers, fanhooks etc. for all heights and depths etc. all complete as directed. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE	136	MT	95,000.00	1,29,20,000.00
191	**BOUNDARY WALL (SUPERSTRUCTURE)**				
192	compound wall (Superstructure)with RCC columns, beam, coping and Brick masonry (3.0m high) with an additional 0.6m high barbed wire & concertina coil (dia. 600mm) overhead on 'Y' shape structural steel frame. (SUPERSTRUCTURE) works included (masonry work, Plastering ,painting, CENTERING & SHUTTERING complete in all respect etc.)with gate and supplying, fixing and tensioning in position 2.5mm(12 gauge), 2 ply, 4 points, GI Barbed wire designation A-1 conforming to IS:278 in horizontal rows and cross diagonals for compound wall "Y" shaped overhang etc. with necessary GI staples, clips and pins, GI straining bolts and binding wire with all labour and materials etc. complete as per drawings, specifications and directions of Engineer-in-Charge.(The barbed wire shall be measured in linear length of the barbed wire actually fixed) Supplying, fabricating and fixing in position structural steel line posts, straining posts, struts for 'Y' shaped overhang etc. conforming to IS:2062 over brick/stone Masonry/ RCC compound walls/ columns, cutting to required size as per drawings and specifications, welding where necessary, embedding in position, holding to correct level and line, any auxiliary structure for dummy supports, drilling holes and painting as per painting specification attached with tender, cutting brick/rubble/concrete surfaces if necessary, grouting with M20 grade concrete including cost of grout with all labour and material etc. complete as per drawings, specifications and directions of Engineer-in-Charge.(All materials including cement shall be supplied by contractor).	285	RM	800.00	2,28,000.00
193	**STRUCTURAL STEEL WORKS (REFER TE SPECIFICATION)**				
194	Supplying, fabricating and erecting of structural steel and applying COATING (Post-erection/ Field) of approved quality and shade as per TE Specification or Job Specifications, wherever applicable) over the coat of shop primer already applied, including storage, surface preparation, degreasing, cleaning, drying, providing necessary arrangement for access, testing etc. including touching up of shop for steel structures (Including Wicket Gate, Main Gate and emergency gate, excluding ladders, spiral stairways & hand rails) at all location & levels, all complete as specified, for UNIT (INLAND) areas considering environment classification as INDUSTRIAL. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE. (Unit rate based on Structural steel weight)	19.5	MT	95,000.00	18,52,500.00
195	MISCELLANEOUS STEEL WORKS (REFER TE - SPECIFICATIONS)				
196	**MS Chequered Plates**				
197	Supplying, fabricating and erecting in position at all levels and locations bolted, screwed and/or welded M.S. CHEQUERED PLATES of any thickness in walkways, platforms, stairtreads or any other place as directed, etc. cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing, welding, preparation and submission of fabrication drawings and preparing the surfaces for painting and applying shop primer as per TE Specification after fabrication and return of unused/ scrap/ unserviceable chequered plates to Owner's store and material reconciliation etc. all complete as specified and directed	1.5	MT	1,52,000.00	2,28,000.00
198	**Anchor Bolts**				
199	Supplying, fabricating, fixing and keeping in position at all levels and locations THREADED ANCHOR BOLTS of all diameters and nomenclature including nuts, washers, anchor plates, pipe sleeves etc. in foundations, columns, pedestals, slabs, beams, walls etc. or any other place as directed including handling & transporting, straightening if required, turning from relevant size M.S. rounds to required diameter, threading, welding, providing necessary templates and auxiliary dummy structures, if any, necessary tying and welding with reinforcement, adjustment of shuttering & reinforcement/any other fixture, greasing exposed metal surfaces, covering bolts and packing the sleeves with jute cloth etc. all complete as specified and directed.(SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1	MT	1,45,000.00	1,45,000.00
200	**MS Metal Inserts**				
201	Supplying, transporting, storing, fabricating and fixing in position M.S. METAL INSERT (with lugs) of any shape made out of flats, plates, rolled sections, pipes etc. providing necessary templates, staging, cutting,straightening, if required, bolting, welding as required and embedding in position on both Plain and Reinforced Cement concrete members inclusive of adjusting shuttering & reinforcement/ any other fixture, welding where necessary, tying and holding to correct level, line and position, any auxiliary dummy structures to support the heavy inserts, painting exposed surfaces with a coat of primer as per TE Specification all complete for all depths and heights as specified and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	0.55	MT	1,60,000.00	88,000.00
202	**MS Grating**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL**	**Rev.00** **Date-11.02.2022**
		Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
203	Supplying, fabricating and erecting in position at all levels and locations ELECTROFORGED GALVANISED GRATING (purchased from approved manufacturer by the Contractor) conforming to TE STANDARD (in walkways, platforms, stair treads etc.) including cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing with manufacturer's supplied galvanised clamps, preparation and submission of fabrication drawings, all complete as specified and directed (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.7	MT	1,65,000.00	2,80,500.00
204	**Hand Railing 1000mm**				
205	Supplying, fabricating and fixing in position at all locations 1000mm high INCLINED HAND RAILING (for staircases) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade M.S. Tubes conforming to IS:1239 including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE SPEC. preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	RM	3,000.00	30,000.00
206	Supplying, fabricating and fixing in position at all locations 1000mm high HORIZONTAL HAND RAILING (for platforms, walkways, etc. or any other location as directed) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade MS Tubes conforming to IS:1239 and 100x5 MS Toe Plate confirming to IS:2062 (Grade A/B), including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE standard drawing & specification, preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	3,500.00	35,000.00
207	**CHAIN LINK FENCING**				
208	Supplying, fabricating and fixing G.I. chain link fencing with 3.5mm dia. wire, 50x50mm diamond mesh chain link fence fabric conforming to IS:2721 fixed to steel/RCC posts/struts above ground level, including supply of chain link fencing fabric in 1.9 metre wide rolls, stretcher bars, staples, etc. required for fixing the fencing, fixing of chain link fencing between straining posts, fixing of bottom of fencing in cement concrete 1:2:4 blocks and painting with synthetic enamel etc. , including supply and fixing line wires, complete as per drawings, specifications and directions of Engineer -in-Charge (All materials shall be supplied by Contractor). (The measurement of chain link fencing shall be on linear basis for 1.9 m wide fencing fabric)	10	M	2,500.00	25,000.00
209	**ROADS & FLEXIBLE PAVEMENT (UPTO WBM LAYER)**				
210	Preparation and consolidation of sub-grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth outside the property boundary in the un-disputed areas as directed by Engineer-In-Charge.	2400	M2	400.00	9,60,000.00
211	Supplying and laying of stone aggregate of 63mm down to 45mm size for WBM layer Base Course, tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 75mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding material of plasticity index upto 6%, including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts etc. complete as per drawings, specifications and directions of Engineer-in-Charge	7200	M2	700.00	50,40,000.00
212	**CONCRETE PAVEMENTS**				
213	Construction of dry lean cement concrete (DLC) sub base over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in- charge.	240	cum	11,000.00	26,40,000.00
214	Providing and laying Reinforced Cement Concrete with 20mm and down size graded crushed stone aggregates in flooring, pavements etc. including leaving pockets, if necessary, making recess/drains, laying in alternate panels, etc. for all depths including shuttering, tamping, curing, providing dowel bars with sleeves/tie bars etc where ever required at site. as specified in any shape, thickness, position and finishing the top surface smooth etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For RCC of M-30 grade concrete (all materials including cement but excluding cost of providing & fixing reinforcement and joint sealing shall be supplied by the contractor).	600	cum	22,000.00	1,32,00,000.00
215	Providing 20mm wide Expansion Joints in pavement slabs as per general technical specification including cleaning the joints of all loose material, filling with 20mm thick impregnated fibre boards for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved Joint Sealing Compound as per IS:1834 Type-B etc. all complete as per drawings, specifications and directions of Engineer-in-Charge	1100	M	180.00	1,98,000.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. SHAKTI ENGINEERS

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
216	Sealing joint around pedestal and column etc. 20mm wide x 150 mm deep including filling with 20mm thick impregnated fire board for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved joint sealing compound as per IS:1834 Type-B.	300	M	220.00	66,000.00
217	**RCC PIPE CULVERTS & ELECTRICAL ROAD CROSSINGS ETC. (as per drawing & TE specification)**				
218	Supplying and laying in position RCC pipes with collars conforming to IS:458 for pipe culverts, cable crossings etc. including cutting the pipe if necessary, lowering, laying in position to proper levels, slopes etc. caulking the joints with spun yarn soaked in neat cement slurry and finishing with cement mortar 1:2 (1 cement : 2 sand) curing etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For following Class and Internal PIPE DIA (MM). (Dia (internal) - 500 mm, Pipe Class - NP3)	20	M	3,000.00	60,000.00
219	**U/G AND A/G G.I. PIPELINE SYSTEM - WATER SERVICES tender specification**				
220	Supplying and laying mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ ASTM A105 (Galvanized) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, earthwork in excavation for trenches, valve pits, etc. in all types of soil excluding soft and hard rock including laying of pipes in trenches, joining the pipes and fittings with threaded connections, hydrostatic testing of the piping, backfilling the trenches with selected/approved earth fill material, cutting of roads wherever required, making good the road surface after laying, disposal of surplus earth within a lead of 500 m, etc. including supply of necessary fittings etc. complete as per specifications, drawings and directions of Engineer-in-Charge. For following Nom.Size in mm. (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	600.00	6,000.00
221	Supplying and laying above ground mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ASTM A 105 (GALVANISED) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, including laying of pipes on sleeper, walls, including erecting piping on columns, etc. for pump station, overhead tanks, etc. including joining the pipes and fittings with threaded connections, hydrostatic testing of the piping including supply of necessary fittings etc & pipe supports. complete as per specifications, drawings and instructions of Cement Supplied by contractor (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	400.00	4,000.00
222	**MISC. CIVIL AND STRUCTURAL WORKS FOR U/G PIPING AND OTHER CIVIL WORKS**				
223	Providing and laying brick masonry with locally available bricks of specified class (Brick of class lower than specified shall not be accepted) in cement mortar 1:4 (1 cement : 4 Coarse sand) in one or more brick thickness and in any shape in foundation and plinth for valve pits, drains, circular/square manholes, wing walls, etc. including providing recesses, openings, etc. including curing, finishing the joints flush below ground level and raking out joints in plinth with all labour and material, etc. complete as per drawings, specifications and direction of Engineering-Charge. For following Brick Class. All materials including cement supplied by the Contractor and. (Brick Class - 5)	418	cum	7,500.00	31,35,000.00
224	Providing 13mm thick average cement plaster in cement mortar 1:3 (1 cement: 3 sand) on brick walls/stone masonry/pitching or on concrete surfaces for manholes, valves pits, culverts, wing walls, etc. including cleaning and preparation of the surface, scaffolding, curing etc. for all depths and heights complete as per drawings specifications and direction of Engineer-in-Charge. All materials including cement supplied by the Contractor.	775	M2	650.00	5,03,750.00
225	**UNDERGROUND SEWER SYSTEM - RCC PIPES**				
226	Supplying and laying underground R.C.C. pipes sewers with socket and spigot ends conforming to IS:458 of approved make, to proper grade and alignment, including earthwork in excavation in all types of soil except soft and hard rock for pipe trenches, etc. including dewatering, shoring and shuttering if necessary, dressing of sides, leveling, grading and ramming of bottoms, cutting the R.C.C. pipes to required lengths, lowering the pipes, jointing, including connecting the pipes to manholes and grouting the pipe body with manhole wall using cement mortar 1:2 (1 cement : 2 sand), testing, draining of water and cleaning of pipe after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness , watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, including cutting of roads wherever required and making good the same, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit etc. complete for all depths as per drawings, specifications and instructions of Engineer-in-Charge.(All material shall be supplied by contractor) For following Pipe size (mm) and Class(The following pipe sizes are all internal diameter of the pipes)				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. SHAKTI ENGINEERS

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
227	(Dia (Internal) - 100 mm, Piping Material Class - NP2)	15	M	600.00	9,000.00
228	(Dia (Internal) - 150 mm, Piping Material Class - NP1)	15	M	800.00	12,000.00
229	(Dia (Internal) - 450 mm, Piping Material Class - NP2)	70	M	2,000.00	1,40,000.00
230	**UNDERGROUND SEWER SYSTEM-HDPE PIPES**				
231	UNDERGROUND SEWER SYSTEM-HDPE PIPES :- Supplying and laying HDPE pipes conforming to IS:4984 of approved make to proper grade and alignment, including earthwork in excavation for trenches etc. in all types of soil except soft and hard rock including dewatering till completion of subsequent works, shoring and strutting, if necessary, dressing the sides, leveling, grading and ramming the bottom, jointing the pipes using hot plates as per manufacturer's recommendation, lowering, providing and laying 1:5:10 (1 cement : 5 sand : 10 aggregate) plain cement concrete of minimum 100mm thickness on bottom and side of pipe as directed, connecting the pipes to manholes and grouting the pipes to manhole/valve chamber walls, including supplying and fixing the specials and fittings, such as bends, reducers, tees, elbows, caps etc. conforming to IS:8008 or fabricated from pipes as per specification, supplying and fixing of flanges, fixing of online valves, including fixing of bolts, nuts and gaskets etc. as per specifications, testing, draining of water and cleaning of pipes after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness, watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit, cutting of road wherever required, making good the same etc. complete for all depths as per drawings, specification and instruction of Engineer-in- Charge. For the following nominal diameter (mm) Pressure Rating(Kg/Cm2). (Dia (Internal) - 80 mm, Pressure Rating - 2.5 Kg/sqcm)	50	RM	1,200.00	60,000.00
232	**PLUMBING AND BUILDING DRAINAGE**				
233	Supplying and fixing approved quality Cast Iron soil/waste pipe conforming to IS:1729 below ground with necessary specials, bends such as Y-junction, T- junction (both single and double) including plugs, shoes, cowls, jointing with lead caulked joints and testing, cutting in floors, earth work in excavation, encasing the pipe in 50mm THK, PCC M20, backfilling and removal of surplus earth upto a lead of 50M etc. complete as per drawings, specifications and directions of Engineer-in-Complete				
234	100mm dia (All materials including cement supplied by contractor)	10	RM	600.00	6,000.00
235	80mm dia (All materials including cement supplied by contractor)	10	RM	450.00	4,500.00
236	Supplying and fixing gun metal globe valve conforming to IS:778, complete as per specifications and directions of Engineer-in-Charge.				
237	Dia - 50 mm	2	Nos	350.00	700.00
238	Constructing of brick masonry valve chamber in 1:4 Cement mortar(1 cement: 4 sand) with CI frame & cover fixed on M-20 grade cement concrete , necessary excavation, M-20 grade foundation concrete, 13mm thick 1:3 cement plaster on inside & all exposed surfaces, backfilling, removal of surplus earth for all leads within the complex limit etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge. For following Valve size and Brick Class (All materials including Cement supplied by contractor)				
239	Dia - 50 mm, Brick Class - 5)	2	EACH	25,000.00	50,000.00
240	Providing and fixing approved stone ware 100mmx100mm dia. gully trap as per tender specification, including grating with CI frame and cover 300mmx300mm including brick masonry (brick class shall be as mentioned below) chamber in 1:4 cement mortar(1 cement: 4 sand) on M-20 grade cement concrete foundation, plastered inside and outside surfaces with 1:3 cement mortar (1 cement: 3 sand) with 13mm average thickness including providing and fixing light duty CI frame and cover, painting CI frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat, earth work in excavation, backfilling, removal of surplus earth, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry etc. all complete as per drawings, specifications and directions of Engineer-in-Charge				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
241	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	20,000.00	40,000.00
242	Construction as per(Design basis & general technical specification) of brick masonry (brick class shall be as mentioned below) inspection chambers/manholes of 750mmx750mm internal size 1000mm deep(Max.) in cement mortar 1:4 (1 cement: 4 sand) with CI frame and cover 500mm clear dia, (circular Medium duty of grade MD-10) conforming to IS:1726 fixed on RCC slab of M-30 grade, necessary excavation, supplying, fixing 4 Nos. 16mm dia M.S. rungs, M-20 grade foundation concrete 1:3 cement mortar(1 cement: 3 sand) plastering of 13mm average thickness for inside & 16mm avg. thickness for outside exposed surfaces, backfilling, disposal of surplus earth upto a lead of 100M, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry, painting the C.I.frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat etc. all complete as per drawings, specifications and directions of Engineer-in-Charge.				
243	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	60,000.00	1,20,000.00
244	Construction, supplying, installation, testing and commissioning of septic tank as per standards and IS:2470 Part-I , with all necessary accessories like inlet, outlet vent pipes, manhole covers, rungs etc. including earthwork in excavation in all type of soil except soft and hard rock, backfilling and disposal of surplus earth for all leads etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge				
245	All material including cement supplied by contractor for (Users - 10 NOS)	1	Nos	20,000.00	20,000.00
246	**MISCELLANEOUS ITEMS**				
247	Supplying and fixing in position entrance gate in complex boundary wall fencing manufactured out of steel frame work and square MS bars of 20 mm at 100 c/c and horizontal name plate band at lock rail level suitably hinged with box type steel post embedded in cement concrete i.e. providing the tension bar for smooth operation and locking arrangement etc. complete as per tender specification, including painting with two coats of anti-corrosive paint and two coats of approved aluminium/synthetic enamel paint etc. complete as per drawings, specifications and directions of Engineer-in-Charge.				
248	4.0M clear opening width of gate in two panels.	3	Nos	1,00,000.00	3,00,000.00
249	Supplying & Laying interlocking Paver Blocks for roads, footpaths and any other place etc. including providing 50 mm thick sand filling below Paver Blocks including compaction of sand layer, filling the joints by dry sand, providing precast kerb stone of PCC M-20 at edges, including preparation of compacted sub-grade etc. all complete as per drawing, standard and directions of Engineer-in-Charge. (All material including cement supplied by contractor, paver blocks shall confirm to IS: 15658. cloour and shape of paver block shall be as per owner requirements for following thickness of paver blocks				
250	(Thickness - 60 mm)	385	M2	2,500.00	9,62,500.00
251	Supply and installation on terrace, high density polyethylene drinking water circular tank as per IS:12701 and ISI marked including supply and installation of all fittings, cover with suitable locking arrangement, float valve, making necessary holes for inlet, outlet and overflow connection and vent pipe etc. and the base supports for tank including supply of all necessary material all complete as per specifications and directions of Engineer-in-charge. (Sintex or equivalent having valid ISI license) for following capacities.				
252	capacity - 500 litre	2	Nos	15,000.00	30,000.00
253	Supplying, installation, testing and commissioning of Upflow Anaerobic Filter with bleaching tank as per TE Std. Drawing with all necessary accessories like, Upstream inlet CI piping from septic tank, Downstream outlet RCC NP2 class piping up to surface storm water drains, CI pipes for filter chamber, CI valve, RCC pre-cast pit covers, steps, perforated pre-cast slabs etc., inlet chamber, Filter chamber, deluding chamber including earthwork in excavation in all type of soil including soft rock, backfilling with murrum or approved soil arranged by the contractor, disposal of surplus earth etc. complete as per drawings, specification and direction of Engineering-Charge (All materials including cement shall be supplied by the contractor, Brick Class lower than 5.0 shall not be used). - Upto 10 Nos. user	1	Nos	15,000.00	15,000.00
254	**DEMOLISHING AND DISMANTLING**				
255	**Brickwork**				

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
256	Demolishing BRICKWORK (taking all necessary safety precautions) for all depths below plinth level including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	2,000.00	20,000.00
257	Demolishing BRICKWORK (taking all necessary safety precautions) for all heights above plinth level including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	2,500.00	25,000.00
258	**RCC**				
259	Demolishing RCC WORK (taking all necessary safety precautions) for all depths below plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	2,800.00	28,000.00
260	Demolishing RCC WORK (taking all necessary safety precautions) for all heights above plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	3,000.00	30,000.00
261	**PCC**				
262	Demolishing PLAIN CEMENT CONCRETE work (taking all necessary safety precautions) for all depths below plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc. disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation and backfilling shall be paid separately under relevant items)	10	cum	6,900.00	69,000.00
263	**MISCELLANEOUS ITEMS (REFER TE SPECIFICATION)**				
264	Sand Filling				
265	Supplying and filling approved SAND of specified quality under floors, in foundations, plinths, tank foundations etc. for all depths and heights including cost of sand,royalties,transportation to site for all leads and lifts, including loading, unloading, spreading in layers of loose thickness not exceeding 150 mm,watering,ramming,compacting with mechanical compactors and/or other equipment to the specified levels to achieve 85% relative density as per IS:2720 Part XIV,including preparation of subgrade to the required slope, providing testing apparatus and testing the degree of consolidation all complete as per drawings, specifications and direction of Engineer-in-charge. The rates shall be inclusive of the cost of all labour,material,equipments etc. all complete .	120	cum	3,500.00	4,20,000.00
266	**SAND GRAVEL MIX**				
267	Supplying and filling sand gravel mix (1:1) with approved aggregate below road, RCC pavement, manholes, pits, foundations, bedding of UG piping etc. in layers of 150 mm loose thickness (maximum) including watering, ramming, rolling, compacting to achieve 85% relative density as per IS 2720 Part-XIV, quarrying, royalties, transportation, handling, etc. all complete as per drawings, specifications and directions of Engineer-in- Charge. (The rate shall be inclusive of the cost of all labour, material, equipment etc. all complete)	122	cum	5,500.00	6,71,000.00
268	**GROUTING WITH NON-SHRINKABLE COMPOUND**				
269	Providing and laying manually or by pumping at all positions a ready mix non-shrink cementitious grout of compressive strength specified below for specified works e.g. pipe support, base grouting of rotating equipment and other installation complete in all respects as per scope of work, detailed construction drawings , technical specifications and directions of the Engineer-In-Charge.				
270	Having compressive strength of 30 N/mm2 , Per bag of 25 Kg	100	Bags	2,500.00	2,50,000.00
271	Having compressive strength 45 N/mm2 , Per bag of 25 Kg	20	Bags	3,500.00	70,000.00

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272	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains, SS trench of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.	10	SQM	2,500.00	25,000.00
273	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, leve and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	17	M3	6,000.00	1,02,000.00
274	Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M-25, of size 1000x450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos. cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of the Engineer-In-Charge.	630	EACH	1,500.00	9,45,000.00
275	**Borewell and recharge well**				
276	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job all complete as per drawing, direction of Engineer -in-charge, in all types of soil :	130	M	1,000.00	1,30,000.00
277	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge.	130	M	600.00	78,000.00
278	Providing and fixing Bail plug/ Bottom plug of required diameter to the bottom of pipe assembly of tubewell as per IS:2800 (Part-I). :150mm dia	3	EACH	800.00	2,400.00
279	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	4,000.00	20,000.00
280	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	4,500.00	22,500.00
281	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	5,000.00	25,000.00
282	Gravel packing in tubewell construction in accordance with IS:4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of the Engineer-In-Charge.	3	M3	4,500.00	13,500.00
283	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS:4270, of reputed & approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size dia having minimum wall thickness 5.00 mm	5	M	2,500.00	12,500.00
284	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	60	M	3,000.00	1,80,000.00
285	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/ 3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS:8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	25	M	3,200.00	80,000.00
286	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of 150 mm diameter	1	Nos	5,000.00	5,000.00
287	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS:2800 (Part-I), including necessary bolts & nuts of required size complete 150 mm diameter.	1	Nos	2,100.00	2,100.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. SHAKTI ENGINEERS

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
288	Supply, Installation and commissioning of 1.5HP Borwell Submersible Pump	1	EACH	25,000.00	25,000.00
289	Supply and Installation of 3Cx10Sqmm Copper Flat Cable	200	M	120.00	24,000.00
290	**LANDSCAPING**				
291	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment).	810	M3	1,200.00	9,72,000.00
292	Fine dressing of the ground.	2700	M2	120.00	3,24,000.00
293	Providing & laying Selection no. 1 grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden and than rolling the surface with light roller make the surface smoothen and light watering the same maintenance for 30 days or more till the grass establish properly,as per direction of officer in charge	2700	M2	150.00	4,05,000.00
294	Conducting topographical ground/land survey in the specified area as shown in the tender drawings by conventional/GPS or any other standard method, covering details of physical features like Rivers, Nallahs, Lakes, Ponds, wells, pits, Forest, Trees, Roads, culverts, transmission lines, telegraph/ telephone and electric poles, underground or any other services, cross drainage works including cross sectional details of nallah etc. including establishing high flood level with source of information, identification of any monument, historical structure, wild life sanctuary in the vicinity, storm water disposal point with levels, cross-section details of nallah, recording spot levels, top level of nearest state highway or National Highway, including providing in tabulation girth wise no. of trees etc as specified, plotting and developing topographical contour maps, showing true north including establishing survey reference stations, key plan etc. including all equipment's, instruments, personnel's, clearing of bushes as per requirement for intervisibility to carry out survey work etc. , complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of drawings/map and supply of electronic files. Note: Survey work shall be carried out by survey agency approved by Contractor and sample spot witness of levels cordinates by PMC, and shall be submitted to PMC/Owner for review.Survey drawing will be provided in A0 size with clear visibility of all the spots/levels/ contoure and Bench marks. Permanaet bench mark will be stabished at site in a 450x450 mm size 600mm high bick masonry piller.	6950	M2	150.00	10,42,500.00
295	**GEO TECHNICAL INVESTIGATION (Z/02/0022)**				
296	Conducting soil investigation with boring including all field tests and laboratory tests, mobilization and demobilization of equipments & personnel etc. for soil investigation for each borehole location. complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of Reports & recommendations and supply of electronic files.	5	Nos	55,000.00	2,75,000.00
297	**ANTI-TERMITE TREATMENT**				
298	Supplying chemical emulsion in sealed containers including delivery as specified in the Technical Specifications.				
299	**Chlorpyriphos/ Lindane emulsifiable concentrate of 20%**	200	LITRE	600.00	1,20,000.00
300	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
301	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc. as per Techinal specifications and direction of engineering in charge: With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	80	METRE	175.00	14,000.00
302	Treatment of soil under floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the floor:				
303	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	250	SQM	1,200.00	3,00,000.00
304	Supply and installation 60mm dia GI pipe for column support of gate	15	M	700.00	10,500.00
305	Supply and installation 100mm dia MS pipe	15	M	800.00	)00.00

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. SHAKTI ENGINEERS

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306	Supply and installation 50mm dia MS pipe	15	M	650.00	9,750.00
307	Supply and installation of U-PVC pipes (working pressure 4 kg / cm²) Single socketed pipe 75 mm dia for weep holes	300	M	400.00	1,20,000.00
308	**Sub-Total Section C**				**8,52,42,450.00**
309	**SECTION-D [CATHODIC PROTECTION WORKS]**				
310	**Cathodic Protection system**				
311	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning & Monitoring of the temporary cathodic protection [TCP] system using galvanic anodes to protect the external surface of the pipeline against soil-side corrosion for minimum 2 year or till commissioning of permanent CP system whichever is later . All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard drawings and vendor list as attached with this tender and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	88,00,000.00	88,00,000.00
312	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning of permanent cathodic protection system for 40 years. The scope of work also includes post commssoning surveys and repair of coating/ rectification of cathodic protection system based on the post commissioning surveys. In additon to the same, AC Interference study on the pipelines to be performed and mitigation measures takes to the satisfaction of Owner/ CONSULTANT. All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard and vendor list attached and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	1,00,00,000.00	1,00,00,000.00
313	**Sub-Total Section D**				**1,88,00,000.00**
314	**SECTION-E [ELECTRICAL WORKS]**				
315	**ELECTRICAL**				
316	**SWITCH BOARDS / UPS SYSTEM/ PANEL**				
317	Supply , Installation, testing and commissioning of LT Switch-boards, AC UPS system with UPS Distribution board & Ni-Cd Battery banks , distribution boards, cubicles with electrical equipment, misc. electrical panels etc., including transportation from store/yard to site at the place of installation, unpacking, assembly, including mounting and wiring of loose parts supplied by equipment vendor, interconnection of shipping sections and requisite inter-panel wiring between shipping sections, including supply of all wiring materials, installation on foundations or fixing to wall or steel structures, aligning, levelling, grouting, including all labour and materials, as per approved drawings, specifications of this tender and directions of Engineer-in-Charge.				
318	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted MEDB	2	Nos	3,00,000.00	6,00,000.00
319	Supply , erection , termination , earthing and commissioning of wall mounted OLDB as per single line diagram of DT stations	1	Nos	3,75,000.00	3,75,000.00
320	Supply , erection , termination , earthing and commissioning of wall mounted ILDB as per Single line diagram of DT stations	1	Nos	1,50,000.00	1,50,000.00
321	Supply , erection , termination, earthing and commissioning of wall mounted SSDB as per Single line diagram of DT stations	1	Nos	1,55,000.00	1,55,000.00
322	Supply , erection , termination , earthing and commissioning of wall mounted AC DB as per Single line diagram of DT stations	1	Nos	1,35,000.00	1,35,000.00
323	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 6 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of DT stations	1	SET	2,50,000.00	2,50,000.00
324	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for DT stations.	1	SET	2,00,000.00	2,00,000.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. SHAKTI ENGINEERS

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
325	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 1 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of RT stations	1	SET	2,50,000.00	2,50,000.00
326	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for RT stations.	1	SET	25,000.00	25,000.00
327	Supply , erection , and commissioning of 415 V SFU as per Single line diagram of DT stations including liasioning with SEB as per Tender specification and direction of Engineer- In charge.	1	Nos	2,50,000.00	2,50,000.00
328	**POWER AND CONTROL CABLE**				
329	Supply , laying , termination , erection and testing of 1.1 KV Power and control FRLS PVC Outersheath, XLPE insulated, armored Cables . Outdoor cable will be laid in buried cable trench and in Indoor cable will be laid in Cable trench by provision of Cable tray and supports inside the trench as per PTS - Electrical package P.017110 G 11077 E002				
330	3.5C x 95 sqmm AL FRLS XLPE	300	M	700.00	2,10,000.00
331	3.5C x 70 sqmm AL FRLS XLPE	100	M	750.00	75,000.00
332	3.5C x 50 sqmm AL FRLS XLPE	50	M	600.00	30,000.00
333	3.5C x 25 sqmm AL FRLS XLPE	100	M	**650.00**	65,000.00
334	4C x 16 sqmm CU FRLS XLPE	100	M	700.00	70,000.00
335	3C x 2.5 sqmm CU FRLS XLPE	170	M	600.00	1,02,000.00
336	3C x 6 sqmm CU FRLS XLPE	250	M	450.00	1,12,500.00
337	4C x 6 sqmm CU FRLS XLPE	350	M	350.00	1,22,500.00
338	2C x 6 sq.mm CU FRLS XLPE	100	M	250.00	25,000.00
339	2.5 sqmm Cu. Wire	1800	M	180.00	3,24,000.00
340	6 sqmm Cu. Wire	600	M	150.00	90,000.00
341	**Earthing & Lightning**				
342	Supply , Installation , testing and comissioning of GI Earth electrodes & Cu plate type earth pit complete with earth pit as per IS 3043, PTS-Electrical package and all necessary material including exacavation of earth pit , filling with charcol and salt , back filling, brick work , connections including all labour and materials as approved drawing and specification of this tender and direction of Engineer-In charge.				
343	**GI Earth Electrodes**				
344	65mm dia x 3000 mm L GI pipe electrode type Earth pit	15	Nos	12,000.00	1,80,000.00
345	**Cu plate Earth Electrode**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

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346	600x600x3mm Cu plate type Earth pit	8	Nos	15,000.00	1,20,000.00
347	**Earth strip and wire**				
348	50x 6 mm GI Flat strip	850	M	235.00	1,99,750.00
349	25 x 6 mm Cu Flat strip	50	M	185.00	9,250.00
350	2.5 Sqmm Cu wire	250	M	230.00	57,500.00
351	25 x 6 mm GI Flat strip	200	M	185.00	37,000.00
352	10 Sq.mm earthing cable	250	M	800.00	2,00,000.00
353	GI Earth Bus 50x 6 Sq.mm with all installation assesories	3	Nos	1,500.00	4,500.00
354	Cu. Earth Bus 50x 6 Sq.mm with all installation assesories (in control room)	4	Nos	3,500.00	14,000.00
355	25x3 mm GI Flat for Lightning as well as down conductors for DT station as per overall earthing layout and GGNG-E-20713-3007	80	M	230.00	18,400.00
356	Other lightning assesories like 20mm dia copper rod, hollosphere ,200x200x6mm ms plate ,anchor/fastner ,test links for DT station as per overall earthing layout and GGNG-E-20713-3007	1	LOT	1,00,000.00	1,00,000.00
357	**OUTDOOR Lighting**				
358	Supply , erection , Testing & commissioning of Outdoor area lighting system including with supply of flameproof / weather proof light fixture , pole , junction box and earthing including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender & Overall outdoor lighting layout of DT & RT station and directions of Engineer- In charge.				
359	100W FLP LED Fixture & FLP Junction box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	4	Nos	35,000.00	1,40,000.00
360	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	2	Nos	30,000.00	60,000.00
361	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in RT Stations.	7	Nos	25,000.00	1,75,000.00
362	1x160W FLOOD LED Fixture with weather proof junction box & 9 mtr high pole with all assesories for open area	9	Nos	20,000.00	1,80,000.00
363	1x70 W Solar type Street LED Fixture with weather proof junction box, VRLA Battery (72 hrs backup time) & 9 mtr high pole for street lighting	6	Nos	25,000.00	1,50,000.00
364	1x27 W Post Top Lantran LED Fixture for Gate with weather proof junction box for Gate lamp	2	Nos	25,000.00	50,000.00
365	1x36 W LED industrial fixture suitable to building parapet /wall with all assesories like weather proof junction box/clamp/reducer/	2	Nos	11,000.00	22,000.00
366	**INDOOR Lighting**				
367	Supply, erection, Testing & commissioning of Indoor building area lighting system including with supply of light fixture, point wiring including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender and directions of Engineer- In charge.				

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368	2x20 W LED recessed decorative fixture for control room	5	Nos	5,000.00	25,000.00
369	2x20W LED Industrial Fixture for Electrical room	2	Nos	3,500.00	7,000.00
370	1x40W LED Flameproof Fixture for Battery room	1	Nos	15,000.00	15,000.00
371	2x18W LED Industrial Fixture for Varanda/Toilet/ water cooler area/ Guard room	6	Nos	12,000.00	72,000.00
372	1x36W LED Industrial Fixture	4	Nos	6,000.00	24,000.00
373	2x20 W LED recessed decorative fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) control room.	2	Nos	80,000.00	1,60,000.00
374	2x20W LED Industrial Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Electrical room	2	Nos	60,000.00	1,20,000.00
375	1x40W LED Flameproof Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Battery room	1	Nos	65,000.00	65,000.00
376	**Switch socket**				
377	Supply and Installation of single/ three phase Switch socket as per Indoor Illumination layout for DT & RT and PTS-Electrical Package and directions of Engineer-In Charge				
378	5/15A surface type switch socket (1 Ph)	7	Nos	25000	1,75,000.00
379	5A flush type switch socket (1 Ph)	4	Nos	3,000.00	12,000.00
380	16A Switch socket (I Ph)	3	Nos	2,500.00	7,500.00
381	20A Switch socket for AC (1 Ph)	4	Nos	8,000.00	32,000.00
382	Flame proof Junction box for Exhaust fan in Battery room	2	Nos	25,000.00	50,000.00
383	32A Switch socket for welding receptacles (3 Ph)	1	Nos	12,000.00	12,000.00
384	Modular switch board	12	Nos	8,000.00	96,000.00
385	**FANS and Exhaust FAN**				
386	Supply ,Installation and testing of Ceiling Fan and Exhaust fan with louvers including all labours and materials as per Indoor Illumination layout for DT and PTS-Electrical Package and directions of Engineer-In Charge				
387	Ceiling Fan 230V AC 1200 mm sweep	3	Nos	7,000.00	21,000.00
388	450 mm FLP Exhaust Fan for Battery room	2	Nos	12,000.00	24,000.00
389	200 mm Exhaust Fan for Toilet	1	Nos	8,000.00	[illegible]000.00

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390	300 mm Exhaust Fan for Electrical room/ CO2 room	3	Nos	20,000.00	60,000.00
391	**Air conditioning unit**				
392	Supply ,Installation and testing of Five star 1.5 Ton Split AC with outdoor compressor unit including all labours and materials as per Typical Indoor Illumination layout for DT and directions of Engineer-In Charge				
393	Split Air condition Five star 1.5 Ton	4	Nos	80,000.00	3,20,000.00
394	**Hardware and other Accessories**				
395	Supply and Installation of Hardware and other accessories including all labours and materials as per Tender specification PTS-Electrical Package P.017110 G 11077 E002 and directions of Engineer-In Charge				
396	Rubber mat	15	M	800.00	12,000.00
397	Rubber hand gloves	1	PAIR	300.00	300.00
398	Warning Marker	1	Nos	1,200.00	1,200.00
399	PVC Conduit with bend ,tee and other required assesories	1	LOT	15,000.00	15,000.00
400	CAUTION Board & Sock treatment chart	1	Nos	25,000.00	25,000.00
401	Cable route marker as per Standard drawing TE-IN-STD-G-0327	1	LS	50,000.00	50,000.00
402	Fire extingusher and SAND Bucket with Stand	1	SET	25,000.00	25,000.00
403	Ladder type Cable tray - hot dip Galvanized Prefabricated 450 mm wide	55	MTR	1,500.00	82,500.00
404	Perforated type Cable tray hot dip Galvanized Prefabricated 450 mm wide	35	MTR.	1,700.00	59,500.00
405	**Cable Glands**				
406	Cable Glands : Flame proof IIA/IIB double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
407	Cables with upto OD 20 mm & above OD 20 mm as per Single line diagram of DT & RT station	1	LOT	20,000.00	20,000.00
408	Cable Glands : Weather proof double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
409	Cables with upto OD 20 mm to 40 mm as per Single line diagram of DT & RT station	1	LOT	25,000.00	25,000.00
410	**Sub-Total Section E**				**69,54,400.00**
411	**SECTION-F [INSTRUMENTATION WORKS]**				

Prepared Checked Approved

TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. SHAKTI ENGINEERS

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
412	**INSTRUMENTATION**				
413	**SUPPLY**				
414	Supply of Pressure Transmitter along with 2 valve manifolds with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	25,000.00	1,25,000.00
415	Supply of Pressure gauge including high range along with 2 valve manifolds with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	18	Nos	30,000.00	5,40,000.00
416	Supply of Pressure gauge including Low Range along with 2 valve manifolds, gauge saver with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	3	Nos	28,000.00	84,000.00
417	Supply of temperature element (RTD) along with flanged thermowell mounted for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	15,000.00	75,000.00
418	Supply of Temperature Transmitter with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	7	Nos	20,000.00	1,40,000.00
419	Supply of skin type temperature element (RTD) for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I003), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	2	Nos	75,000.00	1,50,000.00
420	Supply of Local control panel with all accessories as per Data sheet (P.017110 G 11087 I011), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, SAT of local control panel,supports/ frame fabrication, earthing and screwing plug for unused entries, painting and integration with RTU. Termination of all Other panel SCADA hard wired signal including RS-485 signals through LCP for RTU/SCADA by Bidder. 1. Digital Barriers 2. Analog Barries 3. Relays 4. three poisition selector switch 5. LED indication lamps 6. Push buttons 7. terminal blocks 8. internal wiring 9. MCBs 10. Door switches 11. cooling Fan 12. LED lights	2	Nos	1,25,000.00	2,50,000.00
421	Supply of Ex-proof junction box with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, iincluding Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.	4	Nos	50,000.00	2,00,000.00
422	Supply of Corrosion Monitoring system with corrosion coupon, Corrosion probe, transmitter and digital indicator (mounted in LCP) as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				

Prepared Checked Approved

TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. SHAKTI ENGINEERS

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
423	Corrosion coupon along with accessories.	2	Nos	50,000.00	1,00,000.00
424	Corrosion probe along with transmitter, digital indicator, barriers and accessories.	2	Nos	75,000.00	1,50,000.00
425	Supply of Conventional Type Microprocessor based fire detection system along with smoke detector, heat detector, cabinet, manual call point, Independent 24 Hrs battery backup with 15 min in alarm state, repeater panel and Electrical Operated Siren, exit signs and cables fromsensor ,MCP, siren, hooter to controller as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
426	Controller along with cabinet along with cabling	1	Nos	75,000.00	75,000.00
427	Multisensor (smoke & heat)	10	Nos	60,000.00	6,00,000.00
428	WP IP 65 Manual call points	6	Nos	15,000.00	90,000.00
429	Ex Proof and WP IP 65 Manual call point	1	Nos	25,000.00	25,000.00
430	WP Hooter & Flasher	1	Nos	25,000.00	25,000.00
431	Repeater panel	1	Nos	60,000.00	60,000.00
432	Exist sign	6	Nos	15,000.00	90,000.00
433	Electrical siren Exd	1	Nos	50,000.00	50,000.00
434	24 Hrs battery backup	1	Nos	75,000.00	75,000.00
435	Supply of Conventional type gas detection system along with controller, ex proof point gas detectors, beacon hooter, flasher, , cabinet, portable gas detector, calibration kit, alignment kit as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
436	Controller with cabinet	1	Nos	11,000.00	11,000.00
437	Point gas detectors	12	Nos	85,000.00	10,20,000.00
438	Panel Mounted hooter	2	Nos	35,000.00	70,000.00
439	Dual tone Hooter & Beacon Ex"d" with reset push button	2	Nos	45,000.00	90,000.00
440	Portable gas detecotrs	1	Nos	1,25,000.00	1,25,000.00
441	Calibration kit	1	Nos	60,000.00	60,000.00
442	Ex d Junction Box	2	Nos	35,000.00	70,000.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. SHAKTI ENGINEERS

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
443	Supply of Universal type Hand Held Configurators for transmitters with carrying case, rechargeable batteries (one working and one standby), and battery charger as per Data sheet,PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work	1	Nos	75,000.00	75,000.00
444	Supply of Instrumentation signal cable, control cable, communication cable/LAN cable, Power cables along with all sizes cable glands (WP & Exd), PVC hood, lug, ferrule, etc including Cable laying (buried as well as tray) along with termination, glanding, meggering and loop checking including supply of ferrule, lugs, cable tie, cable clamp, cable marker etc. as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.				
445	1Px 1.5mm2	500	MTRS	250.00	1,25,000.00
446	12Px 0.5mm2	900	MTRS	175.00	1,57,500.00
447	1Qx1.5mm2	30	MTRS	600.00	18,000.00
448	12Tx1.5mm2	200	MTRS	550.00	1,10,000.00
449	1Tx1.5mm2	180	MTRS	400.00	72,000.00
450	6Px0.5mm2	200	MTRS	125.00	25,000.00
451	2Px1.5mm2	200	MTRS	110.00	22,000.00
452	Cat 5 (LAN)	160	MTRS	110.00	17,600.00
453	3C x 2.5mm2	240	MTRS	135.00	32,400.00
454	Supply & laying of Instruments cable tray with tray cover (Branch Cable tray (50mm x 50mm), Main cable tray 900 mm, cable tray 300mm, cable tray 150 mm.) as per requirement, instruments/ PGD, CCTV/ mounting poles, instrument protection sun sheds, angles, channels, MS plates & all the erection materials and as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including installation of support, cable clamping, installation of tray cover and support painting.	1	LS	1,50,000.00	1,50,000.00
455	Supply , installation & laying of tubes and fittings as per requirement and as per PTS-Instrumentation with appendices and Scope of Work C&I. SS 316L TEE (1/2", Class 3000#, Screwed, NPTF, Seamless) ,SS316L GLOBE/BALL VALVE (1/2", Class 800#, Screwed, NPTF, Seamless), SS316L PLUG (1/2", Screwed, NPTM, Hex head, class 3000#), SS316L PIPE NIPPLE (½" NPTM, seamless, schedule #160) Length of the pipe nipple as per requirement, SS316L MALE CONNECTOR (1/2" OD x 1/2" NPTM), SS316L FEMALE CONNECTOR (1/2"OD x 1/2" NPTF), SS316L UNION (1/2" OD), SS316L TUBE (1/2" OD x 0.065" WT), SS316L TUBE (1/4" OD x 0.035" WT)	1	LS	75,000.00	75,000.00
456	Supply of mandatory spares as per Mandatory Spare **(P.017110 G 11075 I001)**	1	LS	1,25,000.00	1,25,000.00
457	**AT Bokaro** Installation of metering skids, metering cabinet under the supervision of skid supplier, cable laying and terminal of cable from skid junction box to metering system cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	1,50,000.00	1,50,000.00
458	**AT Bokaro** Installation of gas chromatograph skid, analyser & controller cabinet under the supervision of skid supplier, cable laying and terminal of cable from analyser cabinet to controller cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	2,50,000.00	2,50,000.00
459	**AT Bokaro** Installation of H2S & Moisture analyser skids, cabinet under the supervision of skid supplier, laying and terminal of cable from skid field mounted cabinet to LCP/RTU. Including supply of all the required erection, fabrication and civil materials.	1	LS	2,00,000.00	2,00,000.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. SHAKTI ENGINEERS

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
460	**Sub-Total Section F**				**59,54,500.00**
461	**SECTION-G [TELECOM WORKS]**				
462	**AT SV 01** Supply of Input out puts cards in existing Remote Terminal unit along with internal wiring at site and configruation of new parameters in existing RTU as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, Installation of Input out puts cards in existing Remote Terminal unit along with internal wiring at site, interfacing with LCP and configuration of new parameters in existing RTU, as per Scope of Work at SV 01				
463	32 channels digital input cards	1	Nos	35,000.00	35,000.00
464	16 Channel digital output cards	1	Nos	35,000.00	35,000.00
465	12 channel Analog input cards	1	Nos	45,000.00	45,000.00
466	Supply Telecommunication system, SDH equipment STM-4 Based SDH Cabinet of (2000H x 800W x 800W along with 100 mm base frame) as per below configuration: - 2*STM-4 + 2*STM-1 + 8FE ports as per PTS-Telecommunication system (P.017110 G 11077 I002), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including erection, testing, integration with existing NMS at Noida, Commissioning and integration with existing telecom system at SV 01 additional SFP of L4.2 for SV 01 connectivity	1	Nos	6,60,000.00	6,60,000.00
467	Supply of CCTV-IP based Fixed colour camera and PTZ colour camera along with power cable, communication cable at each station as per PTS-Telecommunication system (P.017110 G 11077 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work., including erection, testing, integration with existing VMS at Noida, Commissioning and integration with existing telecom system at SV 01				
468	Fixed Camera WP IP65	1	Nos	50,000.00	50,000.00
469	PTZ camera WP IP65	1	Nos	70,000.00	70,000.00
470	Supply of one Analog phones control room, one number in guard room and one number WP IP66 in field safe area as per PTS-Telecommunication system (P.017110 G 11077 I002) , PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work				
471	Analog Phone	2	Nos	35,000.00	70,000.00
472	Analog Phone Ex Proof WP IP 65	1	Nos	55,000.00	55,000.00
473	FXO cards	1	Nos	50,000.00	50,000.00
474	FXS	1	Nos	35,000.00	35,000.00
475	Five pair armoured telephone cable, size 0.5mm2	100	MTR	600.00	60,000.00
476	**AT Bokaro** Free issue RTU by GAIL: Transportation from Gail store to site location, installation, cabling from LCP to RTU, commissioning etc. Erection, installation of RTU inside the station control room including supply of all the required erection materials, fabrication and civil works	1	LS	1,00,000.00	1,00,000.00
477	**Sub-Total Section G**				**12,65,000.00**
478	Total of Section A + B + C + D + E + F + G				**33,17,11,050.00**

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. SHAKTI ENGINEERS

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
479	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Total of Section A + B + C + D + E + F + G above	18	percentage		5,97,07,989.00
480	Rate of Extended Stay Compensation per month beyond the time schedule and grace period mentioned in Bidding document for reasons solely attribute to Owner (exclusive of GST) Notes:- 1;- Extended Stay Compensation shall be loaded on the quoted price as per evaluation methodology. 2;- In case, no rate for extended stay compensation is stipulated, it will be considered that extended stay compensation is not required by the Bidder and the rates quoted by them shall be valid till completion of works in all respects.	1	Nos		7,00,000.00
481	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Extended Stay Compensation at Sl. No. 480 above	18	percentage		1,26,000.00
	Grand Total				39,22,45,039.00

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	ANNEXURE - I **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**			**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL**	**Rev.00** **Date-11.02.2022**
				Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**
M/s. TECHNO GLOBAL SERVICES PVT. LTD.					
S. NO.	**WORK DESCRIPTION AND SUPPLY**	**UNIT**	**QTY**	**PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR**	
				UNIT RATE	**TOTAL RATE**
1	**SECTION-A (MAIN LINE WORKS)**				
2	**CH.0.00 KM to CH.23.436 KM**				
3	**MAINLINE, PIPING AND MECHNICAL**				
4	**PIPELINE LAYING / INSTALLATION** Laying/ installation of coated line pipe, associated fittings and accessories, etc. as per specifications, drawings, other provisions of Contract and instructions of Engineer-in-Charge, including but not limited to carrying out the following: "Receiving and taking-over", handling, loading, transportation and unloading of Owner supplied coated and bare line pipes and other Free Issue Materials from Contractor's own stock-yard to Work site including stringing on the pipeline Right-of-Use (ROU), Arrangement of all additional land required for Contractor's storage, Performing the additional survey wherein survey data is not sufficient in the opinion of Contractor, arrangement of working RoU if RoU width is not sufficient for equipment/ vehicle movement etc., access for construction (other than Owner provided ROU; Developing necessary access way to the worksite, including earth filling, levelling, etc.; supply of all materials (except Owner supplied materials), supply of all materials, consumables, equipment, labour, etc.; fabrication, Staking and installation of construction markers, clearing, grubbing, grading (as required) of Right of Use; clearing and grading of ROU; Cutting/ uprooting of shrubs, plants, vegetation within ROU; , Trenching to all depths and to a width to accommodate the pipeline with optical fiber cable (inside HDPE Duct) by excavation in all types of soil (in case of hard rock, additional payment for hard rock breaking will be paid as per separate SOR line item), including additional trenching for seismic and other areas as specified,(Rate for laying of optical fibre cable and HDPE Duct not be included here and same to be quoted against separate SOR item); Carrying out repairs of pipe and coating defects not attributable to Owner; Thorough internal cleaning of all pipes by suitable methods to remove debris, shots, grits etc.; Stringing of line pipes along ROU including providing straw bags, soft padding/sand padding; Aligning, cold field bending, cutting and beveling (as required) of pipes for welding and field adjustments, NDT & NDT of re-beveled area, welding, carrying out destructive & non- destructive testing of welds required as per approved NDT specifications (including radiography) and providing all requisite equipment, labour, supervision, materials, films, consumables etc.; carrying out repairs of weld joints as required, carrying out re- radiography and other non-destructive tests on repaired joints, etc.; Installation of carrier pipe including concrete coated pipes (wherever required),				
5	(Concrete Coating on pipes, covered separately) at all crossings including roads/ canals/ nala/ water crossings etc. (supply and installation of casing pipe by open cut or by Jacking/ boaring method covered separately) including pre-testing as required; Carrying out installation of carrier pipe in the casing pipe at cased crossings; Coating of all field weld joints, long radius bends (fabrication of Cold field bends covered here and fabrication of 6D bends by induction heating covered separately), buried fittings etc.; Supply & Installation of warning tape along the entire length of Pipeline including Crossing. Lowering the pipelines in trench, providing required padding over and around the pipeline with sand/graded material (in rocky areas), backfilling with available approved excavated material and/or other suitable soil (supply and providing of soft soil for pre & post padding in Rocky area); Supply and installation of slope breaker as per specifications and drawings in steep slope areas, wherever required; Carrying out hydrostatic testing including air cleaning, flushing, filling, gauging, pressurization of complete pipeline in various test sections as approved by Engineer-In-Charge to the specified test pressure, providing all equipment, pumps, fittings, instruments, dead weight tester, all types of pigs etc., and services, supervision, labour, consumables, arranging water required for hydrostatic testing including supply of corrosion inhibitor, air, etc. as required, locating of leaks and rectification of defects attributable to Contractor, re-testing after rectification, successful completion of hydro-testing of pipeline (De-watering covered else where in the SOR); including all tie-in(s) with the pipeline/ piping installed by others including cutting of test header, re- beveling as required; Carrying out all temporary, ancillary, auxiliary works and all incidental works required to make the pipeline ready for pre- commissioning; Carrying out EGP for the entire stretch of completed pipeline, Repair of defects recorded during EGP/gauge plate run or otherwise including cutting, beveling, welding, NDT, field joint coating etc.; as applicable, Final clean-up and restoration of right of use including obtaining NOC from respective statutory authorities as required and disposal of debris and returning all surplus material to designated disposal areas/storage yard, as directed by Engineer-In-Charge; Restoration of land, facilities and boundary wall etc. at associated facilities dismantled/damaged by the Contractor during construction; Obtaining work permits/ NOC from various statutory authorities having jurisdiction and complying with all stipulation/conditions/recommendation of the said authorities; Preparation of as-built drawings, pipe-book and other records. SOR shall be read in conjunction with Project drawings, scope of work, specifications, standards and other provisions of contract document. The work includes the Survey data & site preparation, Stringing/Chainges in direction, Beveling of pipe element, Welding Procedure Qualification & Welders Qualification, Welding of pipe element, Inspection & testing of production welds, Field joint coating, controlled blasting, chiseling, etc., Material hand over & material handling, Lowering-in & ballasting, All crossings except HDD as mentioned in Crossing List (including installation of carrier pipe inside the Casing at cased crossing) , Backfilling (for all depths in all types of soil, soft /hard rock) , including trench padding with sand, graded earth in rocky areas & rock shield(if required as per specs) reinstatement (restoration) and preparation of As-built Alignment & Crossing drawings.				

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	ANNEXURE - I **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**			**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**
M/s. TECHNO GLOBAL SERVICES PVT. LTD.					
S. NO.	**WORK DESCRIPTION AND SUPPLY**	**UNIT**	**QTY**	**PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR**	
6	All above works shall be executed in accordance with scope of work, GTS, PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. 1. Supply and Installation of OFC and HDPE Ducts along the entire pipeline route, adjacent to the new pipeline, along with all required accessories, fittings and associated items, is covered separately in the SOR. All above works for buried pipeline (including hook-up pipeline from Tap Off Point inside ONGC GCS, Bokaro upto proposed plot for GAIL DT), as per following details :				
7	ND12", API5L X70 - 6.4 mm	6500	M	2,600.00	1,69,00,000.00
8	ND12", API5L X70 - 7.1 mm	15850	M	2,600.00	4,12,10,000.00
9	ND12", API5L X70 - 8.7 mm	150	M	2,600.00	3,90,000.00
10	**Concrete slabs (Mechanical Protection) as per technical specifications** Supply, fabrication and installation of reinforced concrete weights. Reinforced steel size should be 8 mm. top and bottom at a rate of 200 mm c/c of precasted RCC 1:2:4 on pipeline of wall thickness of 75 mm thick and size as per specifications & Standard drawings and instructions of Owner/ Owner's representative including supply of consumables, materials, equipment, labor, supervision, all associated civil works.	382	M	4,500.00	17,19,000.00
11	**Continuous Concrete Coating** Supply of all consumables and materials, equipments, manpower, submission of application procedure with calculations for anti-buoyancy, design mix procedure qualification and application of continuous concrete weight coating thickness mentioned below (higher also, in case design requirements) on pipeline of all thickness, concrete weight coating of the field joints thereof, and performing all works as per specifications and instructions of Owner/Owner's representative and other provisions of CONTRACT DOCUMENT.				
12	35 mm thick	12	M	3,000.00	36,000.00
13	50 mm thick	12	M	3,500.00	42,000.00
14	**GEO TEXTILE BAGS FOR ANTI-BUOYANCY**				
15	Additional works over and above item no. 4 to 9 for design, manufacture and supply of Non-biodegradable geo-textile bags and installation of geo-textile bags duly filled with gravel/ stone ballast on pipelines of all wall thicknesses for anti-buoyancy, drawings, scope of work and instructions of Engineer-in-Charge and other provisions of the Contract document. Note: This item shall be applicable for Some crossings as per instructions of Engineer-incharge.				
16	ND12" (for all thicknesses)	12	M	4,500.00	54,000.00
17	**Permanent Markers** Supply, fabrication and installation of following types of permanent markers along the pipeline route including all associated civil works such as excavation in all types of soil, construction of pedestals and grouting with concrete, clearing, supply & application of approved color and quality of primer and paint, stencil letter cutting for numbers, direction, chainage, etc. restoration of area to original condition and performing all works as per drawings, specifications and instruction of Owner/Owner's Representative.				
18	Pipeline Warning Signs	35	Nos	7,500.00	2,62,500.00
19	Right-of-way boundary markers	94	Nos	1,200.00	1,12,800.00
20	Kilometer Markers	19	Nos	10,000.00	1,90,000.00
21	Aerial Markers	4	Nos	15,000.00	60,000.00
22	Navigable Waterway Markers	8	Nos	45,000.00	3,60,000.00
23	Directional Markers	297	Nos	7,500.00	22,27,500.00
	Repair of Defects in Pipe Coating (Attributable to OWNER)				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**			**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL**	**Rev.00** **Date-11.02.2022**
				Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**

M/s. TECHNO GLOBAL SERVICES PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
25	**Repair of Line Pipe Coating:** Supply of all coating repair materials as per the requirements of the relevant specifications, supply of all consumables, utilities, equipment, and all manpower required, pipe cleaning and surface preparation, repairing of coating defects (resulting in holiday in coating) and testing including all handling, transportation, etc. for line pipes, performing all works necessary for the completion of the works strictly in accordance with the relevant specifications and instructions of OWNER.				
26	**Repair of Holidays in Coating**	40	Nos	10.00	400.00
27	Repair of Cosmetic Defects in Coating: Description of same as in 25 above, but for repair of cosmetic defects in coating.	80	m2	10.00	800.00
28	Repair of Defects in Line Pipes				
29	Repair of OWNER supplied pipes of all wall thicknesses, recorded at the time of taking-over by CONTRACTOR at all places of work.				
30	Cutting and rebevelling	25	Nos	10.00	250.00
31	Jack out method	25	Nos	10.00	250.00
32	All works for locating burst (occurred during hydrostatic testing and tightness test attributable to Owner issued materials) including detecting burst, necessary repairing/replacing defective pipe lengths, including cutting out and removing the defective pipe, pretesting the replacement pipe, welding of replacement pipe into mainline and NDT of welding, repair and re-testing of defective welds, coating of welded joints, cleanup, retesting including providing all labor, materials, consumables and inputs other than OWNER supplied materials and performing all works as per drawings, specifications and directions of Owner/ Owner's representative. In case of pinhole leaks not easily detectable all works for locating leak (occurred during mechanical resistance test and tightness test attributable to Owner issued materials) including detecting leak, The Payment will be made as per actual efforts and based on Equipment and manpower Rate provided in SCC . Further replacement & retesting will be paid as above.	2	Per burst	10.00	20.00
33	**LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER) (FOR TERMINAL PIPING)** **LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER DUE TO FIM)** All works for leak/burst (occurring during hydrostatic testing) by necessary repair/replacement of defective pipe length, including cutting and removing out defective pipes, welding, NDT of welds, repair and re-testing of defective welds, painting of welded joints, clean-up, re hydro testing of the pipe segment including providing all necessary equipment, labour, materials, consumables and inputs other than Owner supplied materials and performing all works as per drawings, scope of work, specifications, standards enclosed with the Contract and directions of Engineer-in-Charge. Note: 1. This rate shall be applicable for manufacturing defects in Company supplied materials only.	18	Inch-meter	10.00	180.00
34	**IDLE TIME PRESERVATION OF PIPELINE** Preservation of complete pipeline and associated facilities and its maintenance including supply of all consumables, all equipment, man- power, etc., complete as per the requirements of specifications, scope of work, standards, other provisions of Contract document and instructions of Engineer-in- Charge. By filling and pressurizing with nitrogen including supply and maintenance of nitrogen as per following details:				
35	Pipe OD - 12 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - 3 MONTH	23800	M	1.00	23,800.00
36	Pipe OD - 12 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - FOR EVERY ADDITIONAL MONTH BEYOND INITIAL 3 MONTHS	23800	M	1.00	23,800.00
37	PRE-COMMISSIONING FOR NATURAL GAS PIPELINES SYSTEM, Carrying out pre-commissioning activities and pre-commissioning checks to the specified acceptance criteria, making the entire pipeline system ready for commissioning (It includes cleaning including magnetic cleaning, Electrical Geometrical Pigging survey, dewatering, swabbing,, pre-drying activity, Golden-tie ins connecting the stations),, supply of all equipment, man-power, consumables, including all type of pigs and required quantity of nitrogen, materials for all temporary works and performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.				

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38	Pipe OD - 12 INCH	23800	M	175.00	41,65,000.00
39	**Commissioning Assistance**				
40	**OVERALL COMMISSIONING OF ENTIRE PIPELINE SYSTEM** Overall commissioning including system checks, inertisation (as required) and charging of entire pipeline system, including all stations and all associated facilities including notifying the Company that the pipeline system is ready for commissioning; Review of status jointly with the Company and obtaining final clearance for start of commissioning; Development and submission of commissioning procedures, obtaining Company approval thereupon, carrying out overall commissioning of the total pipeline system including all facilities and all necessary coordination/ liaison with other Contractor(s) operations; Carrying out commissioning; Supply of all equipment like Nitrogen vapourisers (as required), along with all piping and instruments, temporary venting/ flaring/draining facilities as applicable, man-power, consumables including pigs and required quantity of Nitrogen (as required); Performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.				
41	Pipe OD - 12 INCH	23800	M	50.00	11,90,000.00
42	PIPELINE INFORMATION MANAGEMENT SYSTEM Providing pipeline information management system using web based software for monitoring pipeline construction progress and providing all "As Built" data & drawings for entire length of pipeline as per specifications enclosed with the tender document.	1	LS	5,00,000.00	5,00,000.00
43	VIDEO FILM & PHOTOGRAPHY OF CONSTRUCTION ACTIVITIES Preparation of high resolution video films with audio commentary and Industrial photography covering all aspects/activities of pipeline construction annotated as required, conversion of same to video DVD/Blue Ray format, submitting three (3) sets of the same as per details in scope of work document	1	LS	1,00,000.00	1,00,000.00
44	**FABRICATION OF LR BENDS :**				
45	Fabrication of 6D bend / LR (Induction) bends as per the relevant standard & Specification attached with the tender document from free issue linepipes (mother pipe) including but not limited to the following: "Receiving and taking over of free issue linepipes" from GAIL Dump Yard location as mentioned in Scope of Work, carrying out inspection of line pipe at the time of receive taking over in the presence of Company representative, carrying out repair of pipe defects attributable to Contractor after taking over, including supply of consumables & equipments; handling, hauling, transportation and loading/unloading required to transport the mother pipes between place of issue, LR bend fabricator/ manufacturer, intermediate storage as required, and final delivery of fabricated LR Bends to the worksite(s), as per requirement, Manufacturing/ fabricating of LR Bends, as per project requirements and Specifications. LR bends exact angle(s) shall be as per pipeline alignment. Note:- 1. Rate for repairing of defects in linepipes identified and recorded at the time of receiving & taking over i.e. defects attributable to Company shall be quoted separately in the applicable items of the SOR. 2.Loading of Pipe into installation contractor trailer shall be carried out by the GAIL Dumpyard maintenance agency already engaged by the Company.				
46	Bare Pipe ND12", API5L X70 - 7.1 mm	18	Nos	1,00,000.00	18,00,000.00
47	Bare Pipe ND12", API5L X70 - 8.7 mm	22	Nos	1,25,000.00	27,50,000.00
48	**SUPPLY AND INSTALLATION OF CASING PIPE & 6 INCH CS CONDUIT:** Supply and installation of casing pipe and 6 inch CS conduit for OFC by jacking / boring or open cut for rail, road or canal crossings wherever required in all types of soils and terrain separately for carrier pipes and fibre optic cable inside HDPE duct, supply of casing pipes and all other Contractor supplied materials viz. casing insulators and casing end seals as per enclosed drawing, materials for casing vents and drains, etc. including transportation, supply of all other materials, equipments, consumables, man-power, welding including visual inspection of all weld joints, installation of casing insulators, end seals, vents and drain-off pipes, backfilling and restoration as original of the facility crossed and performing all works as per drawings, specifications including PTS and GTS and instructions of Engineer-in Charge and provisions of Contract document.				

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				Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**
M/s. TECHNO GLOBAL SERVICES PVT. LTD.					
S. NO.	**WORK DESCRIPTION AND SUPPLY**	**UNIT**	**QTY**	**PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR**	
49	Supply and installation of Casing pipe by Boring / Jacking as per item no. 48 (Other than Railway Crossings) Casing Pipe Details: (Pipe 18" , 6.4 mm Thick, API 5L GR.B)	100	M	25,000.00	25,00,000.00
50	Supply and installation of 6 inch CS Conduit by Boring/Jacking as per item no. 48 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	100	M	6,000.00	6,00,000.00
51	Supply and installation of Casing pipe by open cut as per item no. 48 Casing Pipe Details: (Pipe 18" , 6.4 mm Thick, API 5L GR.B)	100	M	9,000.00	9,00,000.00
52	Supply and installation of 6 inch CS Conduit by open cut as per item no. 48 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	100	M	3,000.00	3,00,000.00
53	**HDD CROSSING**				
54	**Generalities**				
55	Topographic / Bathymetry, Geotech Investigation and Hydrological data collection				
56	Site preparation				
57	Design & stress calculations as per requirement				
58	Material hand-over and material handling				
59	Site reinstatement				
60	Final dossier including all notes & calculations as required in the specification				
61	**Installation of 6 inch CS Conduit**				
62	Teletransmission--Separate Drilling for 6 inch CS Conduit for OFC installation				
63	Installation of HDPE duct & OFC cable inside 6 inch CS conduit				
64	Drilling & Pulling of 6 inch CS Conduit shall be done before mainline HDD.				
65	**Pipeline string**				
66	Beveling & welding				

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67	Inspection & testing of welds				
68	Field joint coating				
69	Temporary support (roller)				
70	Control of pipeline string				
71	Hydrotesting & leak test				
72	**Drilling operation**				
73	Earthwork entry / exit points including grading erection of embankment etc..				
74	Supply & clearing out of all material needed for drilling				
75	Drilling of washer pipe, reaming & cleaning of drill opening, supply and preparation of bentonite				
76	Pull back of the pipe string				
77	Disposal of surplus of soil & bentonite				
78	Control of the integrity of the coating				
79	**Work at entry point**				
80	Changes in direction				
81	Beveling & welding				
82	Inspection & testing of welds				
83	Field joint coating & coating of all bare section of pipe				
84	Earthwork				
85	Lowering-in				
86	backfilling as required				
87	**Work at exit point**				

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88	Changes in direction				
89	Beveling & welding				
90	Inspection & testing of welds				
91	Field joint coating & coating of all bare section of pipe				
92	Earthwork				
93	Lowering-in				
94	backfilling as required				
95	Complete work for the water/ Road/ Rail crossings, including taking over and handling of linepipes from Contractor Storage Yard to worksite, Arrangement of all additional land required for Contractor's storage, fabrication, access for construction; construction design calculation and engineering of the crossing, mobilization and demobilization at site(s), supply of all materials as per "Scope of Supply" and all consumables, equipment, manpower and other resources, and acquiring the required land for site preparations, and execution of, but not limited to, the following works in accordance with specifications, drawings, and as per provisions of the Contract document and instructions of the Company/ Engineer-in- Charge: Carry out all surveys required for collecting data relevant to design and construction of the crossing, preparation of all necessary construction drawings for Company's approval as per the provisions of the Contractor document, Preparation of detailed construction method statement and calculations including Scour Depth calculations for river/ canal crossings, Strings preparation including welding, 100% Radiography of welds, NDT of welds and re-beveled areas, radiography, weld repair and re-test, pre-testing of completed string, corrosion coating of field joints with Dirax or equivalent, inspection of corrosion coating and repair of defects, Preconstruction surveys and collection of all necessary data, Installation of pipeline and CS conduit (6 Inch CS Conduit shall be installed through Seperate Drilling) , horizontal directional drilling to the correct profile as per approved drawings and specification, Post-installation hydrotest including leaks and repair of defects and retesting, etc. for defects attributed to Contractor's faulty work, Supply, fabrication and construction of protective fencing as required, Hydrotesting, Supply, fabrication and erection of pipeline markers, Restoration and clean-up etc., Preparation of as-built drawings and other records etc., All other works not specifically listed herein, but required as per specifications, drawings, provision of contract document, calculations, and construction method statements, leading to successful completion of works.				
96	Linepipe details:- (Pipe 12" dia, Wall Thickness: 7.1 mm, Pipe Grade: API 5L GR.X-70 PSL 2, External Coating: 3LPE) CS Conduit details: (Pipe 6" dia, 6.4mm Thick, API 5L GR.B) Note: 1. CS Conduit shall be supplied by the Contractor. Radiography & Hydrostatic testing is not required to be done for CS Conduit. (6 Inch CS Conduit shall be installed through Seperate Drilling) Contractor shall quote accordingly. 2. The rate shall be applicable for the drilled length of the HDDs.	1300	M	25,000	3,25,00,000.00
97	All above works shall be executed in accordance with scope of work, GTS,PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. This line item is applicable for HDD crossing mentioned in the Crossing List with prior approval of Engineer - In-Charge during Construction.				
98	**SUPPLY & INSTALLATION OF OPTICAL FIBBE CABLE AND HDPE DUCT**				
99	Suppy of 24 Fibre Composite armoured Optical Fibre Cable drum (6 fibre G-655 & 18 fibre G-652) of 4 km +/-5% Cable drum length with fiber terminal closure, inspection chamber, electronic route marker all along pipeline route, Two number electronic locater as per PTS-Optical Fibre cable and Scope of Work C&I along with all required accessories and fitments not mentioned seperately.	26200	M	80	20,96,000.00

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100	Inspection/Jointing Chamber (fabricated or readymade)	8	Nos	20,000	1,60,000.00
101	Blowing Pit (fabricated or readymade)	25	Nos	20,000	5,00,000.00
102	Supply of jointing closure 24 Fiber, 2 way including all accessories (3M, Siemens, Reychem make only)	10	Nos	15,000	1,50,000.00
103	Supply of End to End OFC termination of wall mounted FTC with pig tails other accessories for termination of OFC - 24 Fibre in the Telecom Room at Bokaro & SV1	2	Nos	45,000	90,000.00
104	Electronic marker	8	Nos	5,000.00	40,000.00
105	Electronic Locator	1	Nos	4,00,000.00	4,00,000.00
106	Supply of 50mm OD permanently lubricated HDPE telecom duct along with all the required accessories as per PTS-Optical Fibre cable and Scope of Work C&I	26700	M	80.00	21,36,000.00
107	Laying of HDPE Duct : Laying of 50mm HDPE Ducts in same pipeline trench direct buried, or inside 6 inch CS conduit at various crossings as per Specification in all type of soil & terrain, excavated as required, padding, backfilling, etc. including supply of accessories required for HDPE Duct installation, including plastic couplers, end plugs, cable sealing plugs, end caps, etc. suitable & sufficient for above supplied ducts, cleaning and sealing of ducts at the end laid drum lengths, preparation and supply of cable blowing pit at each Km jointing of HDPE duct, testing of HDPE Duct and accessories after laying preparation of report and final drawing and documents as per specification, joint location marking, erection accessories, as-built, etc.	22500	M	50.00	11,25,000.00
108	Blowing of Optical Fibre Cable inside HDPE Duct : All activities pertaining to Blowing of Optical Fibre Cable in same pipeline trench directly (after testing drum at site), inside HDPE duct along the pipeline and at crossing, sealing using all materials required as per specification	22500	M	50.00	11,25,000.00
109	Installation of FTC & Wire mesh, termination of OFC on FTC / DDF inside telecom room, splicing with steet fibre, fibre test, OTDR test, power testing of laid OFC, identification of fault, rectification, earthing, final testing and commissioning, preparation of reports, etc. work complete in all respect with all necessary accessories for all location till final Handing Over and Taking Over by Owner of laid OFC.	1	LS	5,000.00	5,000.00
110	**TRANSPORTATION OF COATED AND BARE LINEPIPES FROM GAIL DUMPYARDS (ANY LOCATIONIN INDIA) TO CONTRACTOR STORAGE YARD:**				
111	"Receiving and taking over" of "free issue" Linepipes from GAIL Dump Yard location (any location in India); Carrying out inspection of Linepipes at the time of receiving and taking-over, recording of pipe & coating defects at the time of taking over in the presence of Company's representative, carrying out repair of coating defects & pipe defects attributable to Company; including supply of materials, consumables & equipments; handling, hauling and transportation from designated place of issue to Contractor Storage Yard; unloading and stacking of the linepipes at Contractor Storage Yard; including arranging all equipments, trailers, trucks & manpower; all works as per Scope of Work, drawings, PTS, GTS and other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, Provision of Contract & instructions of Engineer InCharge.				

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112	Linepipe Details:- Coated and Bare Line Pipe 12" diameter API 5L Gr. X-70 PSL-2 Wall Thickness - 6,4mm / 7.1mm / 8.7 mm External Coating - 3LPE, Internal Coating - Liquid Epoxy 1) Loading of Pipes into Installation contractor's trailer shall be carried out by the contractor. 2) Development & Maintenance of Contractor Storage Yard adequate to store the linepipes including arrangement of all Lifting & Handling equipment at Contractor's Storage Yard shall be done by the Contractor. Rate for the same shall be quoted in applicable items. 3) Rate for repairing of coating defects in linepipes identified and recorded at the time of receiving & taking over i.e. coating-defects attributable to Company shall be included in this item. 4) Rate for repairing of pipe-defects identified and recorded at the time of receiving & taking over i.e. pipe-defects attributable to Company shall be quoted separately in the applicable items of the SOR. 5) Transportation of line pipe from Contractor's Storage Yard to work site is included in SOR item 1 above, No separate payment will be applicable for the same.	220000	Ton-Km	17.00	37,40,000.00
113	**TRANSPORTATION OF FREE ISSUE PIPING ITEMS (OTHER THAN LINE PIPE) FROM GAIL STORAGE YARDS (ANY LOCATION IN INDIA) TO CONTRACTORS YARD / WORKSITE(S) :** "Receiving and taking-over", handling, lifting, loading, transportation and unloading of Company supplied "free-issue materials" (Other than line pipe) viz. Metering Filtering and PRS Skid, Scrapper Launcher/ Receiver & accessories, Valves with or without Actuators, Insulation Joints, Flow Tee, Pig Signallers, fittings, flanges etc. from GAIL Storage yards location (any location in India) to Contractor's Storage Yard / work-site(s). Note:- 1) Location of GAIL Storage Yard shall be anywhere in India. Contractor shall quote accordingly. 2) Transportation of FIM from Contractor's Storage Yard to work site, is included in SOR item 121 below, No separate payment will be applicable for the same.	15000	Ton-Km	90.00	13,50,000.00
114	**DEVELOPMENT OF CONTRACTOR STORAGE YARD:**				
115	Development of the Contractor Storage Yard including fencing, illumination etc., including deployment of all lifting and handling equipments, manpower required to stack, unload and load all Free Issue Material (FIM) including Line Pipes and all bought out items, as required; storage of all Free Issue Material and bought out items for the required duration as per project requirement, all works as per Scope of Work, drawings, other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, PTS, GTS and Provision of Contract & instructions of Engineer In-Charge. The storage yard shall be used for storage of all Free Issue Line pipes, all other Free Issure Material (FIM) and all bought out items required for the project. Notes:- 1) Development of contractor storage yard adequate to store all the material required for Project, including all Free Issue Material (FIM) and bought out items. (Rate for the same shall be captured in this item) 2) Maintenance of contractor storage yard for the entire project period is included in the scope of contractor. No separate payment shall be applicable for the same.	1	LS	5,00,000.00	5,00,000.00
116	Hard Rock breaking by controlled blasting / chiseling method (rate will be applicable in case when prior approval for rock breaking is obtained by the contractor from GAIL / PMC)	100	M3	3,000.00	3,00,000.00
117	Clean Agent Fire Supression System as per Scope of Work	1	LS	50,00,000.00	50,00,000.00
118	Restoration of underground utilities (pipes & cables) during excavation at ONGC, GCS Bokaro and Receiving Station (which is inside SV-01 Premises)	10	Nos	15,000.00	1,50,000.00
119	**Sub-Total Section A**				**12,97,85,300.00**
	SECTION-B [MECHANICAL (PIPING & TERMINAL WORKS)]				

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	ANNEXURE - I **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**			**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL**	**Rev.00** **Date-11.02.2022**
				Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**
	M/s. TECHNO GLOBAL SERVICES PVT. LTD.				
S. NO.	**WORK DESCRIPTION AND SUPPLY**	**UNIT**	**QTY**	**PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR**	
121	**PIPING WORKS AT DESPATCH AND RECEIVING STATIONS AND HOOK-UP WITH ONGC GCS, BOKARO** All works for installation of all piping at all elevations for Despatch and Receiving Stations as indicated in Drawings, Scope document, including supply of all consumables, Gaskets, nuts, bolts Studs, manpower, materials and equipment (except Company supplied free-issue materials), aligning, grouting, tie-in with pipeline and carrying out all mechanical works of underground and above ground piping including fabrication, welding, installation of all pipes, valves (manual & actuated), flanges, fittings, flow tees, pig signalers, insulating joints, corrosion monitoring probes /corrosion coupons, installation of instruments (pressure/temperature gauges, vents, drains-off, safety relief valves, electro hydraulic valves etc.) as indicated in P& IDs and GADs. 100% Radiography of weld joints of piping above 1.5 inch, Magnetic particle & Die penetration test for piping 1.5 inch & below, all NDT of welds, weld repairs/retesting, hydrostatic testing, cleaning/flushing, functional testing, de-pressurizing , Drying and dewatering, cutting and re-beveling (as required), hookup of all pipeline/utilities at the battery limit with the pipeline/utilities installed by others, obtaining all statutory clearances, approvals and permissions for the work (wherever required), excavation and filling in all types of soils including soft/hard rock for installation of piping/ pipe supports; corrosion coating and external painting (as required), finishing, clean-up and restoration of site, preparation of as- built drawings, documents and project records and performing all works as per drawings, specifications, other provisions of Contract document and instructions of Engineer-in-Charge. Civil/ structural works for piping supports will be paid separately as per unit rate provided elsewhere in the contract. Cost of Transportation of all materials (Including FIM mentioned above) for station works, from Contractor's own stock-yard to Work site, to be included in this SOR item. No separate payment will be applicable for the same.				
122	Fabrication and Erection of piping as per item no.110, (For Pipe Size 2 Inch and above, 100% Radiography) Note: 1. Rate for Handling, Fabrication and erection of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item. Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor.Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes 2" & above, shall also be part of this item. Contractor shall quote accordingly.	1900	Inch Dia Meter	1,000.00	19,00,000.00
123	Fabrication & Erection of Piping as per item no.110 (For Pipe Size Below 2 inch, Magnetic particle & Dye Penetration Test as per the requirement of specification)	50	Inch Dia Meter	1,000.00	50,000.00
124	Painting of Piping (Pipe, Fittings, Flanges, Valves, Equipments, etc.) as per item no. 110	1950	Inch Meter	200.00	3,90,000.00
125	Hydrostatic testing, cleaning / flushing, functional testing, de-pressurizing, dewatering & drying of Piping as per item no. 110 (for all size upto 12").	1950	Inch Meter	200.00	3,90,000.00
126	**INSTALLATION OF COMPANY SUPPLIED FIM (FML SKID AND PIG LAUNCHER/RECEIVER SYSTEM) AT DESPATCH TERMINAL AND RECEIVING TERMINAL**				
127	Installation of Company supplied Filtering, Metering and PRS Skid and Scrapper Launcher/ Receiver with accessories, at stations including all handling and installation works; as per drawings, specifications enclosed with the Contract and directions of Engineer-in-Charge. Cost of Transportation of above Free issue items, from Contractor's own stock-yard to Work site for station works, to be included in this SOR item. No separate payment will be applicable for the same.	1	LS	2,00,000.00	2,00,000.00
128	**CONTRACTOR SUPPLIED ITEMS:(Supply of Items as per attached PTS,GTS,Data Sheet,QAP and PMS)**				
129	**Station pipe -Seamless**				
130	1" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, PE, SEAMLESS	6	Meter	1,120.00	6,720.00
131	2" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	90	Meter	2,240.00	2,01,600.00
132	4" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	120	Meter	4,480.00	5,37,600.00
133	10" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	12	Meter	11,200.00	400.00

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				Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**

M/s. TECHNO GLOBAL SERVICES PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
134	12" pipe, 7.1mm thk, ANSI B 36.10, API 5L X 70,HFERW	84	Meter	13,440.00	11,28,960.00
135	**Supply of fittings & Flanges**				
136	1 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 350 LF2,CL1, BW, ANSI B16.25	4	Nos	700.00	2,800.00
137	1" WNRF FLANGES, 6C1, SCH. 160 / 600#, WNRF, B-16.5, ASTM A350 LF2, CL1, BW-ANSI B16.25 RF	4	Nos	1,050.00	4,200.00
138	1", BLIND FLANGES, 6C1, 600#, RF, B-16.5, ASTM A350 LF2, CL1, RF	4	Nos	980.00	3,920.00
139	3/4" EQUAL TEES, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25,	2	Nos	700.00	1,400.00
140	3/4", CUP THREADED 6C1, 6000#, ANSI B16-11, ASTM A 350 LF2, CL1 , BW - ANSI B16.25, ANSI B1.20.1,	3	Nos	420.00	1,260.00
141	**WELDOLETS (MAINLINE x BRANCH SIZE)**				
142	4" x 1", WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	4	Nos	1,120.00	4,480.00
143	12" x 2" WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 7.1 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 694 F70	5	Nos	2,100.00	10,500.00
144	12" x 2", WELDOLETS (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 7.1 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	35	Nos	1,540.00	53,900.00
145	**GASKETS**				
146	GASKETS, 6C1, 600#, RF, ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 1"	12	Nos	280.00	3,360.00
147	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 2"	210	Nos	420.00	88,200.00
148	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 4"	30	Nos	700.00	21,000.00
149	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 10"	2	Nos	1,680.00	3,360.00
150	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 12"	44	Nos	2,100.00	92,400.00
151	**NIPPLES**				
152	NIPPLES, 6C1, Sch 160 /600#, ANSI B 36.10, ASTM A333 GR.6, BOTH ENDS PLAIN, SEAMLESS-LG=100mm, 3/4"	10	Nos	420.00	4,200.00
153	NIPPLES, 6C1, Sch 160 / 600#, ANSI B 36.11, ASTM A333 GR.7, ONE END THRD -MNPT SEAMLESS- LG=100mm, 3/4"	8	Nos	420.00	3,360.00
154	**Supply of following Valves as Per attached PTS,GTS,Data Sheet,QAP,PMS & MTO**				
155	1",BALL VALVE - FULL BORE (RF) (ABOVE GROUND),6C1	6	Nos	10,000.00	60,000.00
156	3/4", CHECK VALVE (RF) (AG), 6C1	2	Nos	10,000.00	20,000.00
157	**3/4",NEEDLE VALVE, 6C1**	5	Nos	15,000.00	75,000.00
158	Note (Applicable for all items of SOR item No 128 to 157): 1. Before procurement of any of the above materials Contractor will take prior approval from GAIL / PMC. 2. Payment will be made for actual quantity used.				
159	**Sub-Total Section B**				**53,92,620.00**
160	**SECTION-C [CIVIL / STRUCTURAL & ARCHITECTURAL]**				

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161	**CIVIL , STRUCTURAL & ARCHITECTURAL**				
162	**Earthwork excavation in soil**				
163	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	2900	cum	260.00	7,54,000.00
164	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth beyond 1.5m and upto and inclusive of 3.0m including Removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	70	cum	300.00	21,000.00
165	**Earthwork excavation in soft rock**				
166	Earth work in EXCAVATION below ground level for all kinds of works in SOFT ROCK and HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as irected including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	255	cum	2,000.00	5,10,000.00
167	**Backfilling after execution of work**				
168	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps within a LEAD OF 100M,including re-excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/ mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	1150	cum	150.00	1,72,500.00
169	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps beyond a LEAD OF 100M AND UPTO & INCLUSIVE OF 500M including re- excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	490	cum	180.00	88,200.00
170	**Transporting & Disposing the SURPLUS EARTH AND DEBRIS**				
171	Transporting and disposing the SURPLUS EARTH AND DEBRIS including shrubs and vegetations from construction areas to areas ANYWHERE OUTSIDE THE PLANT BOUNDARY, including re-excavating the deposited soil excavated earlier, loading, transportation, unloading, laying at all depths and heights, stacking,levelling and dressing both the area (viz. from where the earth is transported and where it is deposited) to required levels and slopes complete with all lifts as directed. For carting on the basis of truck measurements (volume of truck reduced by 30% for voids). DISPOSAL AREAS OUTSIDE PLANT BOUNDARY TO BE ARRANGED BY THE CONTRACTOR. Royalty as applicable for disposal outside plant limits to be borne by the Contractor	1310	cum	150.00	1,96,500.00
172	**EARTH WORK FILLING BY EXCAVATION**				
173	EARTHWORK IN FILLING by excavating the earth from BORROW AREAS arranged by CONTRACTOR for all leads, transporting the earth from borrow area including cleaning & stripping the earth at borrow areas, breaking clods, loading, unloading and laying at all depths and heights in layers of thickness not exceeding 15 cms., watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% of the maximum laboratory dry density, ressing, trimming, levelling the top surface etc. in foundations, plinths, trenches etc. all complete.	9555	cum	600.00	57,33,000.00
174	**PLAIN & REINFORCED CEMENT CONCRETE: (REFER SPECIFICATION NO. (Z/02/0004)**				
	PLAIN CEMENT CONCRETE - PCC				

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176	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:4:8 (1 cement : 4 coarse sand (Zone-III) : 8 graded stone aggregate 40 mm nominal size)	160	cum	6,500.00	10,40,000.00
177	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:3:6 (1 cement : 3 coarse sand (Zone-III) : 6 graded stone aggregate 40 mm nominal size)	22	cum	6,974.00	1,53,428.00
178	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:2:4 (1 cement : 2 coarse sand (Zone-III) : 4 graded stone aggregate 20 mm nominal size)	150	cum	7,500.00	11,25,000.00
179	Providing and laying PLAIN CEMENT CONCRETE for all depths below and upto plinth level in foundations, drains, fillings, non-suspended floors, pavements & ramps or any other works etc. including shuttering, tamping, ramming, vibrating, curing, etc. all as specified in any shape, position, thickness and finishing the top surface rough or smooth as specified and directed all complete for concrete grade M20 with 20mm and down size graded crushed stone aggregates/Gravels. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR	26	cum	8,300.00	2,15,800.00
180	**RCC WORKS**				
181	**SUBSTRUCTURE**				
182	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUBSTRUCTURE INCLUDING CENTERING & SHUTTERING) e.g. foundations, raft, beams, pile caps, Retaining walls, counterforts, buttresses, pedestals, pipe sleepers, columns, suspended floors, staircases, landings, steps, brackets etc., including equipment/ machine foundations & pedestals viz. compressors, generators, etc. (including single pour concreting as specified on the drawing), applying cement wash on concrete surface (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering, etc., wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT)for all depths below and upto plinth level in any shape, position and thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	1220	cum	8,936.00	1,09,01,920.00
183	**SUPER STRUCTURE- EXCLUDING CONTROL ROOM BUILDING, GUARD ROOM & BOUNDARY WALL**				
184	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUPER STRUCTURE INCLUDING CENTERING & SHUTTERING in suspended floors, slabs, beams, columns, walls including counterforts, staircases, landings, steps, facias, fins, mouldings, gutters, shelves, window sills, canopies, lintels, girders, ducts, brackets, chajjas with drip moulds, pedestals, posts, struts, equipment/ machine foundations, ramps etc. (including single pour concreting as specified on the drawing), providing cement wash (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT) FOR ALL HEIGHTS UPTO & INCLUSIVE OF 20 m ABOVE PLINTH LEVEL in any shape, position, thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	70	cum	10,000.00	7,00,000.00
185	**CONTROL ROOM BUILDING (SUPERSTRUCTURE)**				
186	Construction of Control Room Building as per drawings and specification. Building work for all Superstructure works INCLUDING CENTERING & SHUTTERING , Reinforcement , masonry work, partition wall, Plastering & pointing, flooring, Floor finishes, Door & windows, rolling shutter, false ceiling, all finishes, painting, roof treatment complete in all respect etc.)	215	m2	25,000.00	53,75,000.00
187	**GUARD ROOM (SUPERSTRUCTURE)**				
188	Guard Room as per drawings and specification. Building work for all superstructure works including (Reinforcement, masonry work Plastering & pointing, flooring, Floor finishes, Door & windows, painting, roof treatment, all finishes, water supply and sanitary work complete in all respect etc.)	17	m2	28,000.00	4,76,000.00
189	**HYD Bars / MS Bars**				

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190	Supplying and placing in position HIGH YIELD STRENGTH DEFORMED STEEL BARS REINFORCEMENT of Grade Fe500D TMT conforming to IS:1786, for RCC work (excluding control room building & Guard room & boundary wall superstructure) including transporting the Steel, straightening, cleaning, decoiling, cutting, bending to required shapes and lengths as per details, binding with 18 SWG black soft annealed binding wire at every intersection, supplying and placing with proper cover blocks, supports, chairs, overlaps, welding, spacers, fanhooks etc. for all heights and depths etc. all complete as directed. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE	136	MT	90,000.00	1,22,40,000.00
191	**BOUNDARY WALL (SUPERSTRUCTURE)**				
192	compound wall (Superstructure)with RCC columns, beam, coping and Brick masonry (3.0m high) with an additional 0.6m high barbed wire & concertina coil (dia. 600mm) overhead on 'Y' shape structural steel frame. (SUPERSTRUCTURE) works included (masonry work, Plastering ,painting, CENTERING & SHUTTERING complete in all respect etc.)with gate and supplying, fixing and tensioning in position 2.5mm(12 gauge), 2 ply, 4 points, GI Barbed wire designation A-1 conforming to IS:278 in horizontal rows and cross diagonals for compound wall "Y" shaped overhang etc. with necessary GI staples, clips and pins, GI straining bolts and binding wire with all labour and materials etc. complete as per drawings, specifications and directions of Engineer-in-Charge.(The barbed wire shall be measured in linear length of the barbed wire actually fixed) Supplying, fabricating and fixing in position structural steel line posts, straining posts, struts for 'Y' shaped overhang etc. conforming to IS:2062 over brick/stone Masonry/ RCC compound walls/ columns, cutting to required size as per drawings and specifications, welding where necessary, embedding in position, holding to correct level and line, any auxiliary structure for dummy supports, drilling holes and painting as per painting specification attached with tender, cutting brick/rubble/concrete surfaces if necessary, grouting with M20 grade concrete including cost of grout with all labour and material etc. complete as per drawings, specifications and directions of Engineer-in-Charge.(All materials including cement shall be supplied by contractor).	285	RM	12,500.00	35,62,500.00
193	**STRUCTURAL STEEL WORKS (REFER TE SPECIFICATION)**				
194	Supplying, fabricating and erecting of structural steel and applying COATING (Post-erection/ Field) of approved quality and shade as per TE Specification or Job Specifications, wherever applicable) over the coat of shop primer already applied, including storage, surface preparation, degreasing, cleaning, drying, providing necessary arrangement for access, testing etc. including touching up of shop for steel structures (Including Wicket Gate, Main Gate and emergency gate, excluding ladders, spiral stairways & hand rails) at all location & levels, all complete as specified, for UNIT (INLAND) areas considering environment classification as INDUSTRIAL. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE. (Unit rate based on Structural steel weight)	19.5	MT	1,15,000.00	22,42,500.00
195	MISCELLANEOUS STEEL WORKS (REFER TE - SPECIFICATIONS)				
196	**MS Chequered Plates**				
197	Supplying, fabricating and erecting in position at all levels and locations bolted, screwed and/or welded M.S. CHEQUERED PLATES of any thickness in walkways, platforms, stairtreads or any other place as directed, etc. cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing, welding, preparation and submission of fabrication drawings and preparing the surfaces for painting and applying shop primer as per TE Specification after fabrication and return of unused/ scrap/ unserviceable chequered plates to Owner's store and material reconciliation etc. all complete as specified and directed	1.5	MT	1,15,000.00	1,72,500.00
198	**Anchor Bolts**				
199	Supplying, fabricating, fixing and keeping in position at all levels and locations THREADED ANCHOR BOLTS of all diameters and nomenclature including nuts, washers, anchor plates, pipe sleeves etc. in foundations, columns, pedestals, slabs, beams, walls etc. or any other place as directed including handling & transporting, straightening if required, turning from relevant size M.S. rounds to required diameter, threading, welding, providing necessary templates and auxiliary dummy structures, if any, necessary tying and welding with reinforcement, adjustment of shuttering & reinforcement/any other fixture, greasing exposed metal surfaces, covering bolts and packing the sleeves with jute cloth etc. all complete as specified and directed.(SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1	MT	1,50,000.00	1,50,000.00
200	**MS Metal Inserts**				
201	Supplying, transporting, storing, fabricating and fixing in position M.S. METAL INSERT (with lugs) of any shape made out of flats, plates, rolled sections, pipes etc. providing necessary templates, staging, cutting,straightening, if required, bolting, welding as required and embedding in position on both Plain and Reinforced Cement concrete members inclusive of adjusting shuttering & reinforcement/ any other fixture, welding where necessary, tying and holding to correct level, line and position, any auxiliary dummy structures to support the heavy inserts, painting exposed surfaces with a coat of primer as per TE Specification all complete for all depths and heights as specified and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	0.55	MT	1,50,000.00	82,500.00
202	**MS Grating**				

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203	Supplying, fabricating and erecting in position at all levels and locations ELECTROFORGED GALVANISED GRATING (purchased from approved manufacturer by the Contractor) conforming to TE STANDARD (in walkways, platforms, stair treads etc.) including cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing with manufacturer's supplied galvanised clamps, preparation and submission of fabrication drawings, all complete as specified and directed (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.7	MT	1,65,000.00	2,80,500.00
204	**Hand Railing 1000mm**				
205	Supplying, fabricating and fixing in position at all locations 1000mm high INCLINED HAND RAILING (for staircases) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade M.S. Tubes conforming to IS:1239 including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE SPEC. preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	RM	4,500.00	45,000.00
206	Supplying, fabricating and fixing in position at all locations 1000mm high HORIZONTAL HAND RAILING (for platforms, walkways, etc. or any other location as directed) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade MS Tubes conforming to IS:1239 and 100x5 MS Toe Plate confirming to IS:2062 (Grade A/B), including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE standard drawing & specification, preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	4,800.00	48,000.00
207	**CHAIN LINK FENCING**				
208	Supplying, fabricating and fixing G.I. chain link fencing with 3.5mm dia. wire, 50x50mm diamond mesh chain link fence fabric conforming to IS:2721 fixed to steel/RCC posts/struts above ground level, including supply of chain link fencing fabric in 1.9 metre wide rolls, stretcher bars, staples, etc. required for fixing the fencing, fixing of chain link fencing between straining posts, fixing of bottom of fencing in cement concrete 1:2:4 blocks and painting with synthetic enamel etc. , including supply and fixing line wires, complete as per drawings, specifications and directions of Engineer -in-Charge (All materials shall be supplied by Contractor). (The measurement of chain link fencing shall be on linear basis for 1.9 m wide fencing fabric)	10	M	4,200.00	42,000.00
209	**ROADS & FLEXIBLE PAVEMENT (UPTO WBM LAYER)**				
210	Preparation and consolidation of sub-grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth outside the property boundary in the un-disputed areas as directed by Engineer-In-Charge.	2400	M2	200.00	4,80,000.00
211	Supplying and laying of stone aggregate of 63mm down to 45mm size for WBM layer Base Course, tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 75mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding material of plasticity index upto 6%, including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts etc. complete as per drawings, specifications and directions of Engineer-in-Charge	7200	M2	400.00	28,80,000.00
212	**CONCRETE PAVEMENTS**				
213	Construction of dry lean cement concrete (DLC) sub base over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in- charge.	240	cum	7,200.00	17,28,000.00
214	Providing and laying Reinforced Cement Concrete with 20mm and down size graded crushed stone aggregates in flooring, pavements etc. including leaving pockets, if necessary, making recess/drains, laying in alternate panels, etc. for all depths including shuttering, tamping, curing, providing dowel bars with sleeves/tie bars etc where ever required at site. as specified in any shape, thickness, position and finishing the top surface smooth etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For RCC of M-30 grade concrete (all materials including cement but excluding cost of providing & fixing reinforcement and joint sealing shall be supplied by the contractor).	600	cum	8,936.00	53,61,600.00
215	Providing 20mm wide Expansion Joints in pavement slabs as per general technical specification including cleaning the joints of all loose material, filling with 20mm thick impregnated fibre boards for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved Joint Sealing Compound as per IS:1834 Type-B etc. all complete as per drawings, specifications and directions of Engineer-in-Charge	1100	M	200.00	2,20,000.00

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216	Sealing joint around pedestal and column etc. 20mm wide x 150 mm deep including filling with 20mm thick impregnated fire board for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved joint sealing compound as per IS:1834 Type-B.	300	M	250.00	75,000.00
217	**RCC PIPE CULVERTS & ELECTRICAL ROAD CROSSINGS ETC. (as per drawing & TE specification)**				
218	Supplying and laying in position RCC pipes with collars conforming to IS:458 for pipe culverts, cable crossings etc. including cutting the pipe if necessary, lowering, laying in position to proper levels, slopes etc. caulking the joints with spun yarn soaked in neat cement slurry and finishing with cement mortar 1:2 (1 cement : 2 sand) curing etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For following Class and Internal PIPE DIA (MM). (Dia (internal) - 500 mm, Pipe Class - NP3)	20	M	4,500.00	90,000.00
219	**U/G AND A/G G.I. PIPELINE SYSTEM - WATER SERVICES tender specification**				
220	Supplying and laying mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ ASTM A105 (Galvanized) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, earthwork in excavation for trenches, valve pits, etc. in all types of soil excluding soft and hard rock including laying of pipes in trenches, joining the pipes and fittings with threaded connections, hydrostatic testing of the piping, backfilling the trenches with selected/approved earth fill material, cutting of roads wherever required, making good the road surface after laying, disposal of surplus earth within a lead of 500 m, etc. including supply of necessary fittings etc. complete as per specifications, drawings and directions of Engineer-in-Charge. For following Nom.Size in mm. (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	750.00	7,500.00
221	Supplying and laying above ground mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ASTM A 105 (GALVANISED) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, including laying of pipes on sleeper, walls, including erecting piping on columns, etc. for pump station, overhead tanks, etc. including joining the pipes and fittings with threaded connections, hydrostatic testing of the piping including supply of necessary fittings etc & pipe supports. complete as per specifications, drawings and instructions of Cement Supplied by contractor (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	650.00	6,500.00
222	**MISC. CIVIL AND STRUCTURAL WORKS FOR U/G PIPING AND OTHER CIVIL WORKS**				
223	Providing and laying brick masonry with locally available bricks of specified class (Brick of class lower than specified shall not be accepted) in cement mortar 1:4 (1 cement : 4 Coarse sand) in one or more brick thickness and in any shape in foundation and plinth for valve pits, drains, circular/square manholes, wing walls, etc. including providing recesses, openings, etc. including curing, finishing the joints flush below ground level and raking out joints in plinth with all labour and material, etc. complete as per drawings, specifications and direction of Engineering-Charge. For following Brick Class. All materials including cement supplied by the Contractor and. (Brick Class - 5)	418	cum	6,800.00	28,42,400.00
224	Providing 13mm thick average cement plaster in cement mortar 1:3 (1 cement: 3 sand) on brick walls/stone masonry/pitching or on concrete surfaces for manholes, valves pits, culverts, wing walls, etc. including cleaning and preparation of the surface, scaffolding, curing etc. for all depths and heights complete as per drawings specifications and direction of Engineer-in-Charge. All materials including cement supplied by the Contractor.	775	M2	400.00	3,10,000.00
225	**UNDERGROUND SEWER SYSTEM - RCC PIPES**				
226	Supplying and laying underground R.C.C. pipes sewers with socket and spigot ends conforming to IS:458 of approved make, to proper grade and alignment, including earthwork in excavation in all types of soil except soft and hard rock for pipe trenches, etc. including dewatering, shoring and shuttering if necessary, dressing of sides, leveling, grading and ramming of bottoms, cutting the R.C.C. pipes to required lengths, lowering the pipes, jointing, including connecting the pipes to manholes and grouting the pipe body with manhole wall using cement mortar 1:2 (1 cement : 2 sand), testing, draining of water and cleaning of pipe after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness , watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, including cutting of roads wherever required and making good the same, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit etc. complete for all depths as per drawings, specifications and instructions of Engineer-in-Charge.(All material shall be supplied by contractor) For following Pipe size (mm) and Class(The following pipe sizes are all internal diameter of the pipes)				

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227	(Dia (Internal) - 100 mm, Piping Material Class - NP2)	15	M	750.00	11,250.00
228	(Dia (Internal) - 150 mm, Piping Material Class - NP1)	15	M	1,000.00	15,000.00
229	(Dia (Internal) - 450 mm, Piping Material Class - NP2)	70	M	3,000.00	2,10,000.00
230	**UNDERGROUND SEWER SYSTEM-HDPE PIPES**				
231	UNDERGROUND SEWER SYSTEM-HDPE PIPES :- Supplying and laying HDPE pipes conforming to IS:4984 of approved make to proper grade and alignment, including earthwork in excavation for trenches etc. in all types of soil except soft and hard rock including dewatering till completion of subsequent works, shoring and strutting, if necessary, dressing the sides, leveling, grading and ramming the bottom, jointing the pipes using hot plates as per manufacturer's recommendation, lowering, providing and laying 1:5:10 (1 cement : 5 sand : 10 aggregate) plain cement concrete of minimum 100mm thickness on bottom and side of pipe as directed, connecting the pipes to manholes and grouting the pipes to manhole/valve chamber walls, including supplying and fixing the specials and fittings, such as bends, reducers, tees, elbows, caps etc. conforming to IS:8008 or fabricated from pipes as per specification, supplying and fixing of flanges, fixing of online valves, including fixing of bolts, nuts and gaskets etc. as per specifications, testing, draining of water and cleaning of pipes after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness, watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit, cutting of road wherever required, making good the same etc. complete for all depths as per drawings, specification and instruction of Engineer-in- Charge. For the following nominal diameter (mm) Pressure Rating(Kg/Cm2). (Dia (Internal) - 80 mm, Pressure Rating - 2.5 Kg/sqcm)	50	RM	850.00	42,500.00
232	**PLUMBING AND BUILDING DRAINAGE**				
233	Supplying and fixing approved quality Cast Iron soil/waste pipe conforming to IS:1729 below ground with necessary specials, bends such as Y-junction, T- junction (both single and double) including plugs, shoes, cowls, jointing with lead caulked joints and testing, cutting in floors, earth work in excavation, encasing the pipe in 50mm THK, PCC M20, backfilling and removal of surplus earth upto a lead of 50M etc. complete as per drawings, specifications and directions of Engineer-in-Complete				
234	100mm dia (All materials including cement supplied by contractor)	10	RM	1,000.00	10,000.00
235	80mm dia (All materials including cement supplied by contractor)	10	RM	800.00	8,000.00
236	Supplying and fixing gun metal globe valve conforming to IS:778, complete as per specifications and directions of Engineer-in-Charge.				
237	Dia - 50 mm	2	Nos	1,000.00	2,000.00
238	Constructing of brick masonry valve chamber in 1:4 Cement mortar(1 cement: 4 sand) with CI frame & cover fixed on M-20 grade cement concrete , necessary excavation, M-20 grade foundation concrete, 13mm thick 1:3 cement plaster on inside & all exposed surfaces, backfilling, removal of surplus earth for all leads within the complex limit etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge. For following Valve size and Brick Class (All materials including Cement supplied by contractor)				
239	Dia - 50 mm, Brick Class - 5)	2	EACH	8,000.00	16,000.00
240	Providing and fixing approved stone ware 100mmx100mm dia. gully trap as per tender specification, including grating with CI frame and cover 300mmx300mm including brick masonry (brick class shall be as mentioned below) chamber in 1:4 cement mortar(1 cement: 4 sand) on M-20 grade cement concrete foundation, plastered inside and outside surfaces with 1:3 cement mortar (1 cement: 3 sand) with 13mm average thickness including providing and fixing light duty CI frame and cover, painting CI frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat, earth work in excavation, backfilling, removal of surplus earth, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry etc. all complete as per drawings, specifications and directions of Engineer-in-Charge				

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241	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	8,000.00	16,000.00
242	Construction as per(Design basis & general technical specification) of brick masonry (brick class shall be as mentioned below) inspection chambers/manholes of 750mmx750mm internal size 1000mm deep(Max.) in cement mortar 1:4 (1 cement: 4 sand) with CI frame and cover 500mm clear dia, (circular Medium duty of grade MD-10) conforming to IS:1726 fixed on RCC slab of M-30 grade, necessary excavation, supplying, fixing 4 Nos. 16mm dia M.S. rungs, M-20 grade foundation concrete 1:3 cement mortar(1 cement: 3 sand) plastering of 13mm average thickness for inside & 16mm avg. thickness for outside exposed surfaces, backfilling, disposal of surplus earth upto a lead of 100M, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry, painting the C.I.frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat etc. all complete as per drawings, specifications and directions of Engineer-in-Charge.				
243	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	15,000.00	30,000.00
244	Construction, supplying, installation, testing and commissioning of septic tank as per standards and IS:2470 Part-I , with all necessary accessories like inlet, outlet vent pipes, manhole covers, rungs etc. including earthwork in excavation in all type of soil except soft and hard rock, backfilling and disposal of surplus earth for all leads etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge				
245	All material including cement supplied by contractor for (Users - 10 NOS)	1	Nos	1,00,000.00	1,00,000.00
246	**MISCELLANEOUS ITEMS**				
247	Supplying and fixing in position entrance gate in complex boundary wall fencing manufactured out of steel frame work and square MS bars of 20 mm at 100 c/c and horizontal name plate band at lock rail level suitably hinged with box type steel post embedded in cement concrete i.e. providing the tension bar for smooth operation and locking arrangement etc. complete as per tender specification, including painting with two coats of anti-corrosive paint and two coats of approved aluminium/synthetic enamel paint etc. complete as per drawings, specifications and directions of Engineer-in-Charge.				
248	4.0M clear opening width of gate in two panels.	3	Nos	1,00,000.00	3,00,000.00
249	Supplying & Laying interlocking Paver Blocks for roads, footpaths and any other place etc. including providing 50 mm thick sand filling below Paver Blocks including compaction of sand layer, filling the joints by dry sand, providing precast kerb stone of PCC M-20 at edges, including preparation of compacted sub-grade etc. all complete as per drawing, standard and directions of Engineer-in-Charge. (All material including cement supplied by contractor, paver blocks shall confirm to IS: 15658. cloour and shape of paver block shall be as per owner requirements for following thickness of paver blocks				
250	(Thickness - 60 mm)	385	M2	1,500.00	5,77,500.00
251	Supply and installation on terrace, high density polyethylene drinking water circular tank as per IS:12701 and ISI marked including supply and installation of all fittings, cover with suitable locking arrangement, float valve, making necessary holes for inlet, outlet and overflow connection and vent pipe etc. and the base supports for tank including supply of all necessary material all complete as per specifications and directions of Engineer-in-charge. (Sintex or equivalent having valid ISI license) for following capacities.				
252	capacity - 500 litre	2	Nos	16.00	32.00
253	Supplying, installation, testing and commissioning of Upflow Anaerobic Filter with bleaching tank as per TE Std. Drawing with all necessary accessories like, Upstream inlet CI piping from septic tank, Downstream outlet RCC NP2 class piping up to surface storm water drains, CI pipes for filter chamber, CI valve, RCC pre-cast pit covers, steps, perforated pre-cast slabs etc., inlet chamber, Filter chamber, deluding chamber including earthwork in excavation in all type of soil including soft rock, backfilling with murrum or approved soil arranged by the contractor, disposal of surplus earth etc. complete as per drawings, specification and direction of Engineering-Charge (All materials including cement shall be supplied by the contractor, Brick Class lower than 5.0 shall not be used). - Upto 10 Nos. user	1	Nos	1,00,000.00	1,00,000.00
254	**DEMOLISHING AND DISMANTLING**				
255	**Brickwork**				

TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**			**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL**	**Rev.00** **Date-11.02.2022**
				Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**

M/s. TECHNO GLOBAL SERVICES PVT. LTD.

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256	Demolishing BRICKWORK (taking all necessary safety precautions) for all depths below plinth level including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	750.00	7,500.00
257	Demolishing BRICKWORK (taking all necessary safety precautions) for all heights above plinth level including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	800.00	8,000.00
258	**RCC**				
259	Demolishing RCC WORK (taking all necessary safety precautions) for all depths below plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	2,000.00	20,000.00
260	Demolishing RCC WORK (taking all necessary safety precautions) for all heights above plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	2,000.00	20,000.00
261	**PCC**				
262	Demolishing PLAIN CEMENT CONCRETE work (taking all necessary safety precautions) for all depths below plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc. disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation and backfilling shall be paid separately under relevant items)	10	cum	1,500.00	15,000.00
263	**MISCELLANEOUS ITEMS (REFER TE SPECIFICATION)**				
264	Sand Filling				
265	Supplying and filling approved SAND of specified quality under floors, in foundations, plinths, tank foundations etc. for all depths and heights including cost of sand,royalties,transportation to site for all leads and lifts, including loading, unloading, spreading in layers of loose thickness not exceeding 150 mm,watering,ramming,compacting with mechanical compactors and/or other equipment to the specified levels to achieve 85% relative density as per IS:2720 Part XIV,including preparation of subgrade to the required slope, providing testing apparatus and testing the degree of consolidation all complete as per drawings, specifications and direction of Engineer-in-charge. The rates shall be inclusive of the cost of all labour,material,equipments etc. all complete .	120	cum	1,500.00	1,80,000.00
266	**SAND GRAVEL MIX**				
267	Supplying and filling sand gravel mix (1:1) with approved aggregate below road, RCC pavement, manholes, pits, foundations, bedding of UG piping etc. in layers of 150 mm loose thickness (maximum) including watering, ramming, rolling, compacting to achieve 85% relative density as per IS 2720 Part-XIV, quarrying, royalties, transportation, handling, etc. all complete as per drawings, specifications and directions of Engineer-in- Charge. (The rate shall be inclusive of the cost of all labour, material, equipment etc. all complete)	122	cum	6,600.00	8,05,200.00
268	**GROUTING WITH NON-SHRINKABLE COMPOUND**				
269	Providing and laying manually or by pumping at all positions a ready mix non-shrink cementitious grout of compressive strength specified below for specified works e.g. pipe support, base grouting of rotating equipment and other installation complete in all respects as per scope of work, detailed construction drawings , technical specifications and directions of the Engineer-In-Charge.				
270	Having compressive strength of 30 N/mm2 , Per bag of 25 Kg	100	Bags	600.00	60,000.00
271	Having compressive strength 45 N/mm2 , Per bag of 25 Kg	20	Bags	800.00	16,000.00

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	ANNEXURE - I **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL**	**Rev.00** **Date-11.02.2022**
		Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**

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272	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains, SS trench of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.	10	SQM	2,000.00	20,000.00
273	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, leve and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	17	M3	10,000.00	1,70,000.00
274	Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M-25, of size 1000x450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos. cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of the Engineer-In-Charge.	630	EACH	750.00	4,72,500.00
275	**Borewell and recharge well**				
276	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job all complete as per drawing, direction of Engineer -in-charge, in all types of soil :	130	M	1,000.00	1,30,000.00
277	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge.	130	M	1,000.00	1,30,000.00
278	Providing and fixing Bail plug/ Bottom plug of required diameter to the bottom of pipe assembly of tubewell as per IS:2800 (Part-I). :150mm dia	3	EACH	500.00	1,500.00
279	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	6,000.00	30,000.00
280	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	6,000.00	30,000.00
281	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	6,000.00	30,000.00
282	Gravel packing in tubewell construction in accordance with IS:4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of the Engineer-In-Charge.	3	M3	6,000.00	18,000.00
283	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS:4270, of reputed & approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size dia having minimum wall thickness 5.00 mm	5	M	1,800.00	9,000.00
284	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	60	M	800.00	48,000.00
285	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/ 3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS:8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	25	M	2,000.00	50,000.00
286	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of 150 mm diameter	1	Nos	500.00	500.00
287	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS:2800 (Part-I), including necessary bolts & nuts of required size complete 150 mm diameter.	1	Nos	500.00	500.00

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	ANNEXURE - I **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. TECHNO GLOBAL SERVICES PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
288	Supply, Installation and commissioning of 1.5HP Borwell Submersible Pump	1	EACH	25,000.00	25,000.00
289	Supply and Installation of 3Cx10Sqmm Copper Flat Cable	200	M	200.00	40,000.00
290	**LANDSCAPING**				
291	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment).	810	M3	600.00	4,86,000.00
292	Fine dressing of the ground.	2700	M2	100.00	2,70,000.00
293	Providing & laying Selection no. 1 grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden and than rolling the surface with light roller make the surface smoothen and light watering the same maintenance for 30 days or more till the grass establish properly,as per direction of officer in charge	2700	M2	200.00	5,40,000.00
294	Conducting topographical ground/land survey in the specified area as shown in the tender drawings by conventional/GPS or any other standard method, covering details of physical features like Rivers, Nallahs, Lakes, Ponds, wells, pits, Forest, Trees, Roads, culverts, transmission lines, telegraph/ telephone and electric poles, underground or any other services, cross drainage works including cross sectional details of nallah etc. including establishing high flood level with source of information, identification of any monument, historical structure, wild life sanctuary in the vicinity, storm water disposal point with levels, cross-section details of nallah, recording spot levels, top level of nearest state highway or National Highway, including providing in tabulation girth wise no. of trees etc as specified, plotting and developing topographical contour maps, showing true north including establishing survey reference stations, key plan etc. including all equipment's, instruments, personnel's, clearing of bushes as per requirement for intervisibility to carry out survey work etc. , complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of drawings/map and supply of electronic files. Note: Survey work shall be carried out by survey agency approved by Contractor and sample spot witness of levels cordinates by PMC, and shall be submitted to PMC/Owner for review.Survey drawing will be provided in A0 size with clear visibility of all the spots/levels/ contoure and Bench marks. Permanaet bench mark will be stabished at site in a 450x450 mm size 600mm high bick masonry piller.	6950	M2	100.00	6,95,000.00
295	**GEO TECHNICAL INVESTIGATION (Z/02/0022)**				
296	Conducting soil investigation with boring including all field tests and laboratory tests, mobilization and demobilization of equipments & personnel etc. for soil investigation for each borehole location. complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of Reports & recommendations and supply of electronic files.	5	Nos	1,00,000.00	5,00,000.00
297	**ANTI-TERMITE TREATMENT**				
298	Supplying chemical emulsion in sealed containers including delivery as specified in the Technical Specifications.				
299	**Chlorpyriphos/ Lindane emulsifiable concentrate of 20%**	200	LITRE	300.00	60,000.00
300	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
301	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc. as per Techinal specifications and direction of engineering in charge: With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	80	METRE	100.00	8,000.00
302	Treatment of soil under floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the floor:				
303	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	250	SQM	400.00	1,00,000.00
304	Supply and installation 60mm dia GI pipe for column support of gate	15	M	800.00	12,000.00
305	Supply and installation 100mm dia MS pipe	15	M	1,400.00	)00.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**			**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**
M/s. TECHNO GLOBAL SERVICES PVT. LTD.					
S. NO.	**WORK DESCRIPTION AND SUPPLY**	**UNIT**	**QTY**	**PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR**	
306	Supply and installation 50mm dia MS pipe	15	M	600.00	9,000.00
307	Supply and installation of U-PVC pipes (working pressure 4 kg / cm²) Single socketed pipe 75 mm dia for weep holes	300	M	350.00	1,05,000.00
308	**Sub-Total Section C**				**6,69,09,830.00**
309	**SECTION-D [CATHODIC PROTECTION WORKS]**				
310	**Cathodic Protection system**				
311	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning & Monitoring of the temporary cathodic protection [TCP] system using galvanic anodes to protect the external surface of the pipeline against soil-side corrosion for minimum 2 year or till commissioning of permanent CP system whichever is later . All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard drawings and vendor list as attached with this tender and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	37,00,000.00	37,00,000.00
312	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning of permanent cathodic protection system for 40 years. The scope of work also includes post commssoning surveys and repair of coating/ rectification of cathodic protection system based on the post commissioning surveys. In additon to the same, AC Interference study on the pipelines to be performed and mitigation measures takes to the satisfaction of Owner/ CONSULTANT. All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard and vendor list attached and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	55,00,000.00	55,00,000.00
313	**Sub-Total Section D**				**92,00,000.00**
314	**SECTION-E [ELECTRICAL WORKS]**				
315	**ELECTRICAL**				
316	**SWITCH BOARDS / UPS SYSTEM/ PANEL**				
317	Supply , Installation, testing and commissioning of LT Switch-boards, AC UPS system with UPS Distribution board & Ni-Cd Battery banks , distribution boards, cubicles with electrical equipment, misc. electrical panels etc., including transportation from store/yard to site at the place of installation, unpacking, assembly, including mounting and wiring of loose parts supplied by equipment vendor, interconnection of shipping sections and requisite inter-panel wiring between shipping sections, including supply of all wiring materials, installation on foundations or fixing to wall or steel structures, aligning, levelling, grouting, including all labour and materials, as per approved drawings, specifications of this tender and directions of Engineer-in-Charge.				
318	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted MEDB	2	Nos	7,00,000.00	14,00,000.00
319	Supply , erection , termination , earthing and commissioning of wall mounted OLDB as per single line diagram of DT stations	1	Nos	1,50,000.00	1,50,000.00
320	Supply , erection , termination , earthing and commissioning of wall mounted ILDB as per Single line diagram of DT stations	1	Nos	1,10,000.00	1,10,000.00
321	Supply , erection , termination, earthing and commissioning of wall mounted SSDB as per Single line diagram of DT stations	1	Nos	1,10,000.00	1,10,000.00
322	Supply , erection , termination , earthing and commissioning of wall mounted AC DB as per Single line diagram of DT stations	1	Nos	1,00,000.00	1,00,000.00
323	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 6 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of DT stations	1	SET	6,00,000.00	6,00,000.00
324	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for DT stations.	1	SET	54,00,000.00	54,00,000.00

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S. NO.	**WORK DESCRIPTION AND SUPPLY**	**UNIT**	**QTY**	**PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR**	
325	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 1 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of RT stations	1	SET	5,00,000.00	5,00,000.00
326	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for RT stations.	1	SET	20,00,000.00	20,00,000.00
327	Supply , erection , and commissioning of 415 V SFU as per Single line diagram of DT stations including liasioning with SEB as per Tender specification and direction of Engineer- In charge.	1	Nos	1,00,000.00	1,00,000.00
328	**POWER AND CONTROL CABLE**				
329	Supply , laying , termination , erection and testing of 1.1 KV Power and control FRLS PVC Outersheath, XLPE insulated, armored Cables . Outdoor cable will be laid in buried cable trench and in Indoor cable will be laid in Cable trench by provision of Cable tray and supports inside the trench as per PTS - Electrical package P.017110 G 11077 E002				
330	3.5C x 95 sqmm AL FRLS XLPE	300	M	456.30	1,36,890.00
331	3.5C x 70 sqmm AL FRLS XLPE	100	M	351.00	35,100.00
332	3.5C x 50 sqmm AL FRLS XLPE	50	M	223.60	11,180.00
333	3.5C x 25 sqmm AL FRLS XLPE	100	M	**182.00**	18,200.00
334	4C x 16 sqmm CU FRLS XLPE	100	M	728.00	72,800.00
335	3C x 2.5 sqmm CU FRLS XLPE	170	M	143.00	24,310.00
336	3C x 6 sqmm CU FRLS XLPE	250	M	262.60	65,650.00
337	4C x 6 sqmm CU FRLS XLPE	350	M	334.10	1,16,935.00
338	2C x 6 sq.mm CU FRLS XLPE	100	M	260.00	26,000.00
339	2.5 sqmm Cu. Wire	1800	M	100.00	1,80,000.00
340	6 sqmm Cu. Wire	600	M	150.00	90,000.00
341	**Earthing & Lightning**				
342	Supply , Installation , testing and comissioning of GI Earth electrodes & Cu plate type earth pit complete with earth pit as per IS 3043, PTS-Electrical package and all necessary material including exacavation of earth pit , filling with charcol and salt , back filling, brick work , connections including all labour and materials as approved drawing and specification of this tender and direction of Engineer-In charge.				
343	**GI Earth Electrodes**				
344	65mm dia x 3000 mm L GI pipe electrode type Earth pit	15	Nos	20,000.00	3,00,000.00
345	**Cu plate Earth Electrode**				

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S. NO.	**WORK DESCRIPTION AND SUPPLY**	**UNIT**	**QTY**	**PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR**	
346	600x600x3mm Cu plate type Earth pit	8	Nos	26,000.00	2,08,000.00
347	**Earth strip and wire**				
348	50x 6 mm GI Flat strip	850	M	325.00	2,76,250.00
349	25 x 6 mm Cu Flat strip	50	M	850.00	42,500.00
350	2.5 Sqmm Cu wire	250	M	150.00	37,500.00
351	25 x 6 mm GI Flat strip	200	M	225.00	45,000.00
352	10 Sq.mm earthing cable	250	M	650.00	1,62,500.00
353	GI Earth Bus 50x 6 Sq.mm with all installation assesories	3	Nos	2,000.00	6,000.00
354	Cu. Earth Bus 50x 6 Sq.mm with all installation assesories (in control room)	4	Nos	5,000.00	20,000.00
355	25x3 mm GI Flat for Lightning as well as down conductors for DT station as per overall earthing layout and GGNG-E-20713-3007	80	M	225.00	18,000.00
356	Other lightning assesories like 20mm dia copper rod, hollosphere ,200x200x6mm ms plate ,anchor/fastner ,test links for DT station as per overall earthing layout and GGNG-E-20713-3007	1	LOT	8,500.00	8,500.00
357	**OUTDOOR Lighting**				
358	Supply , erection , Testing & commissioning of Outdoor area lighting system including with supply of flameproof / weather proof light fixture , pole , junction box and earthing including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender & Overall outdoor lighting layout of DT & RT station and directions of Engineer- In charge.				
359	100W FLP LED Fixture & FLP Junction box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	4	Nos	30,000.00	1,20,000.00
360	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	2	Nos	4,00,000.00	8,00,000.00
361	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in RT Stations.	7	Nos	4,00,000.00	28,00,000.00
362	1x160W FLOOD LED Fixture with weather proof junction box & 9 mtr high pole with all assesories for open area	9	Nos	38,000.00	3,42,000.00
363	1x70 W Solar type Street LED Fixture with weather proof junction box, VRLA Battery (72 hrs backup time) & 9 mtr high pole for street lighting	6	Nos	1,45,000.00	8,70,000.00
364	1x27 W Post Top Lantran LED Fixture for Gate with weather proof junction box for Gate lamp	2	Nos	7,500.00	15,000.00
365	1x36 W LED industrial fixture suitable to building parapet /wall with all assesories like weather proof junction box/clamp/reducer/	2	Nos	6,500.00	13,000.00
366	**INDOOR Lighting**				
367	Supply, erection, Testing & commissioning of Indoor building area lighting system including with supply of light fixture, point wiring including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender and directions of Engineer- In charge.				

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368	2x20 W LED recessed decorative fixture for control room	5	Nos	4,500.00	22,500.00
369	2x20W LED Industrial Fixture for Electrical room	2	Nos	4,500.00	9,000.00
370	1x40W LED Flameproof Fixture for Battery room	1	Nos	9,500.00	9,500.00
371	2x18W LED Industrial Fixture for Varanda/Toilet/ water cooler area/ Guard room	6	Nos	4,500.00	27,000.00
372	1x36W LED Industrial Fixture	4	Nos	4,500.00	18,000.00
373	2x20 W LED recessed decorative fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) control room.	2	Nos	10,000.00	20,000.00
374	2x20W LED Industrial Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Electrical room	2	Nos	12,000.00	24,000.00
375	1x40W LED Flameproof Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Battery room	1	Nos	15,000.00	15,000.00
376	**Switch socket**				
377	Supply and Installation of single/ three phase Switch socket as per Indoor Illumination layout for DT & RT and PTS-Electrical Package and directions of Engineer-In Charge				
378	5/15A surface type switch socket (1 Ph)	7	Nos	2,000.00	14,000.00
379	5A flush type switch socket (1 Ph)	4	Nos	1,500.00	6,000.00
380	16A Switch socket (I Ph)	3	Nos	1,800.00	5,400.00
381	20A Switch socket for AC (1 Ph)	4	Nos	2,500.00	10,000.00
382	Flame proof Junction box for Exhaust fan in Battery room	2	Nos	1,500.00	3,000.00
383	32A Switch socket for welding receptacles (3 Ph)	1	Nos	5,000.00	5,000.00
384	Modular switch board	12	Nos	2,000.00	24,000.00
385	**FANS and Exhaust FAN**				
386	Supply ,Installation and testing of Ceiling Fan and Exhaust fan with louvers including all labours and materials as per Indoor Illumination layout for DT and PTS-Electrical Package and directions of Engineer-In Charge				
387	Ceiling Fan 230V AC 1200 mm sweep	3	Nos	4,500.00	13,500.00
388	450 mm FLP Exhaust Fan for Battery room	2	Nos	15,000.00	30,000.00
389	200 mm Exhaust Fan for Toilet	1	Nos	4,500.00	4,500.00

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390	300 mm Exhaust Fan for Electrical room/ CO2 room	3	Nos	7,500.00	22,500.00
391	**Air conditioning unit**				
392	Supply ,Installation and testing of Five star 1.5 Ton Split AC with outdoor compressor unit including all labours and materials as per Typical Indoor Illumination layout for DT and directions of Engineer-In Charge				
393	Split Air condition Five star 1.5 Ton	4	Nos	80,000.00	3,20,000.00
394	**Hardware and other Accessories**				
395	Supply and Installation of Hardware and other accessories including all labours and materials as per Tender specification PTS-Electrical Package P.017110 G 11077 E002 and directions of Engineer-In Charge				
396	Rubber mat	15	M	1,600.00	24,000.00
397	Rubber hand gloves	1	PAIR	1,600.00	1,600.00
398	Warning Marker	1	Nos	5,000.00	5,000.00
399	PVC Conduit with bend ,tee and other required assesories	1	LOT	10,000.00	10,000.00
400	CAUTION Board & Sock treatment chart	1	Nos	10,000.00	10,000.00
401	Cable route marker as per Standard drawing TE-IN-STD-G-0327	1	LS	50,000.00	50,000.00
402	Fire extingusher and SAND Bucket with Stand	1	SET	2,00,000.00	2,00,000.00
403	Ladder type Cable tray - hot dip Galvanized Prefabricated 450 mm wide	55	MTR	1,800.00	99,000.00
404	Perforated type Cable tray hot dip Galvanized Prefabricated 450 mm wide	35	MTR.	1,800.00	63,000.00
405	**Cable Glands**				
406	Cable Glands : Flame proof IIA/IIB double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
407	Cables with upto OD 20 mm & above OD 20 mm as per Single line diagram of DT & RT station	1	LOT	20,000.00	20,000.00
408	Cable Glands : Weather proof double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
409	Cables with upto OD 20 mm to 40 mm as per Single line diagram of DT & RT station	1	LOT	20,000.00	20,000.00
410	**Sub-Total Section E**				**1,84,36,815.00**
411	**SECTION-F [INSTRUMENTATION WORKS]**				

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M/s. TECHNO GLOBAL SERVICES PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
412	**INSTRUMENTATION**				
413	**SUPPLY**				
414	Supply of Pressure Transmitter along with 2 valve manifolds with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	80,000.00	4,00,000.00
415	Supply of Pressure gauge including high range along with 2 valve manifolds with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	18	Nos	35,000.00	6,30,000.00
416	Supply of Pressure gauge including Low Range along with 2 valve manifolds, gauge saver with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	3	Nos	35,000.00	1,05,000.00
417	Supply of temperature element (RTD) along with flanged thermowell mounted for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	20,000.00	1,00,000.00
418	Supply of Temperature Transmitter with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	7	Nos	80,000.00	5,60,000.00
419	Supply of skin type temperature element (RTD) for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I003), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	2	Nos	25,000.00	50,000.00
420	Supply of Local control panel with all accessories as per Data sheet (P.017110 G 11087 I011), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, SAT of local control panel,supports/ frame fabrication, earthing and screwing plug for unused entries, painting and integration with RTU. Termination of all Other panel SCADA hard wired signal including RS-485 signals through LCP for RTU/SCADA by Bidder. 1. Digital Barriers 2. Analog Barries 3. Relays 4. three poisition selector switch 5. LED indication lamps 6. Push buttons 7. terminal blocks 8. internal wiring 9. MCBs 10. Door switches 11. cooling Fan 12. LED lights	2	Nos	4,50,000.00	9,00,000.00
421	Supply of Ex-proof junction box with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, iincluding Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.	4	Nos	30,000.00	1,20,000.00
422	Supply of Corrosion Monitoring system with corrosion coupon, Corrosion probe, transmitter and digital indicator (mounted in LCP) as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				

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	ANNEXURE - I **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. TECHNO GLOBAL SERVICES PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
423	Corrosion coupon along with accessories.	2	Nos	10,00,000.00	20,00,000.00
424	Corrosion probe along with transmitter, digital indicator, barriers and accessories.	2	Nos	30,00,000.00	60,00,000.00
425	Supply of Conventional Type Microprocessor based fire detection system along with smoke detector, heat detector, cabinet, manual call point, Independent 24 Hrs battery backup with 15 min in alarm state, repeater panel and Electrical Operated Siren, exit signs and cables fromsensor ,MCP, siren, hooter to controller as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
426	Controller along with cabinet along with cabling	1	Nos	3,00,000.00	3,00,000.00
427	Multisensor (smoke & heat)	10	Nos	7,500.00	75,000.00
428	WP IP 65 Manual call points	6	Nos	7,500.00	45,000.00
429	Ex Proof and WP IP 65 Manual call point	1	Nos	20,000.00	20,000.00
430	WP Hooter & Flasher	1	Nos	25,000.00	25,000.00
431	Repeater panel	1	Nos	75,000.00	75,000.00
432	Exist sign	6	Nos	5,000.00	30,000.00
433	Electrical siren Exd	1	Nos	25,000.00	25,000.00
434	24 Hrs battery backup	1	Nos	1,00,000.00	1,00,000.00
435	Supply of Conventional type gas detection system along with controller, ex proof point gas detectors, beacon hooter, flasher, , cabinet, portable gas detector, calibration kit, alignment kit as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
436	Controller with cabinet	1	Nos	5,50,000.00	5,50,000.00
437	Point gas detectors	12	Nos	1,00,000.00	12,00,000.00
438	Panel Mounted hooter	2	Nos	10,000.00	20,000.00
439	Dual tone Hooter & Beacon Ex"d" with reset push button	2	Nos	25,000.00	50,000.00
440	Portable gas detecotrs	1	Nos	1,75,000.00	1,75,000.00
441	Calibration kit	1	Nos	2,50,000.00	2,50,000.00
442	Ex d Junction Box	2	Nos	10,000.00	20,000.00

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	ANNEXURE - I **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. TECHNO GLOBAL SERVICES PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
443	Supply of Universal type Hand Held Configurators for transmitters with carrying case, rechargeable batteries (one working and one standby), and battery charger as per Data sheet,PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work	1	Nos	5,00,000.00	5,00,000.00
444	Supply of Instrumentation signal cable, control cable, communication cable/LAN cable, Power cables along with all sizes cable glands (WP & Exd), PVC hood, lug, ferrule, etc including Cable laying (buried as well as tray) along with termination, glanding, meggering and loop checking including supply of ferrule, lugs, cable tie, cable clamp, cable marker etc. as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.				
445	1Px 1.5mm2	500	MTRS	174.00	87,000.00
446	12Px 0.5mm2	900	MTRS	525.00	4,72,500.00
447	1Qx1.5mm2	30	MTRS	314.00	9,420.00
448	12Tx1.5mm2	200	MTRS	1,720.00	3,44,000.00
449	1Tx1.5mm2	180	MTRS	230.00	41,400.00
450	6Px0.5mm2	200	MTRS	314.00	62,800.00
451	2Px1.5mm2	200	MTRS	282.00	56,400.00
452	Cat 5 (LAN)	160	MTRS	200.00	32,000.00
453	3C x 2.5mm2	240	MTRS	250.00	60,000.00
454	Supply & laying of Instruments cable tray with tray cover (Branch Cable tray (50mm x 50mm), Main cable tray 900 mm, cable tray 300mm, cable tray 150 mm.) as per requirement, instruments/ PGD, CCTV/ mounting poles, instrument protection sun sheds, angles, channels, MS plates & all the erection materials and as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including installation of support, cable clamping, installation of tray cover and support painting.	1	LS	25,000.00	25,000.00
455	Supply , installation & laying of tubes and fittings as per requirement and as per PTS-Instrumentation with appendices and Scope of Work C&I. SS 316L TEE (1/2", Class 3000#, Screwed, NPTF, Seamless) ,SS316L GLOBE/BALL VALVE (1/2", Class 800#, Screwed, NPTF, Seamless), SS316L PLUG (1/2", Screwed, NPTM, Hex head, class 3000#), SS316L PIPE NIPPLE (½" NPTM, seamless, schedule #160) Length of the pipe nipple as per requirement, SS316L MALE CONNECTOR (1/2" OD x 1/2" NPTM), SS316L FEMALE CONNECTOR (1/2"OD x 1/2" NPTF), SS316L UNION (1/2" OD), SS316L TUBE (1/2" OD x 0.065" WT), SS316L TUBE (1/4" OD x 0.035" WT)	1	LS	1,00,000.00	1,00,000.00
456	Supply of mandatory spares as per Mandatory Spare **(P.017110 G 11075 I001)**	1	LS	5,00,000.00	5,00,000.00
457	**AT Bokaro** Installation of metering skids, metering cabinet under the supervision of skid supplier, cable laying and terminal of cable from skid junction box to metering system cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	2,00,000.00	2,00,000.00
458	**AT Bokaro** Installation of gas chromatograph skid, analyser & controller cabinet under the supervision of skid supplier, cable laying and terminal of cable from analyser cabinet to controller cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	1,25,000.00	1,25,000.00
459	**AT Bokaro** Installation of H2S & Moisture analyser skids, cabinet under the supervision of skid supplier, laying and terminal of cable from skid field mounted cabinet to LCP/RTU. Including supply of all the required erection, fabrication and civil materials.	1	LS	1,00,000.00	1,00,000.00

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	ANNEXURE - I **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**			**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL**	**Rev.00** **Date-11.02.2022**
				Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**
M/s. TECHNO GLOBAL SERVICES PVT. LTD.					
S. NO.	**WORK DESCRIPTION AND SUPPLY**	**UNIT**	**QTY**	**PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR**	
460	**Sub-Total Section F**				**1,65,40,520.00**
461	**SECTION-G [TELECOM WORKS]**				
462	**AT SV 01** Supply of Input out puts cards in existing Remote Terminal unit along with internal wiring at site and configruation of new parameters in existing RTU as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, Installation of Input out puts cards in existing Remote Terminal unit along with internal wiring at site, interfacing with LCP and configuration of new parameters in existing RTU, as per Scope of Work at SV 01				
463	32 channels digital input cards	1	Nos	1,00,000.00	1,00,000.00
464	16 Channel digital output cards	1	Nos	1,00,000.00	1,00,000.00
465	12 channel Analog input cards	1	Nos	1,00,000.00	1,00,000.00
466	Supply Telecommunication system, SDH equipment STM-4 Based SDH Cabinet of (2000H x 800W x 800W along with 100 mm base frame) as per below configuration: - 2*STM-4 + 2*STM-1 + 8FE ports as per PTS-Telecommunication system (P.017110 G 11077 I002), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including erection, testing, integration with existing NMS at Noida, Commissioning and integration with existing telecom system at SV 01 additional SFP of L4.2 for SV 01 connectivity	1	Nos	10,00,000.00	10,00,000.00
467	Supply of CCTV-IP based Fixed colour camera and PTZ colour camera along with power cable, communication cable at each station as per PTS-Telecommunication system (P.017110 G 11077 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work., including erection, testing, integration with existing VMS at Noida, Commissioning and integration with existing telecom system at SV 01				
468	Fixed Camera WP IP65	1	Nos	1,00,000.00	1,00,000.00
469	PTZ camera WP IP65	1	Nos	3,50,000.00	3,50,000.00
470	Supply of one Analog phones control room, one number in guard room and one number WP IP66 in field safe area as per PTS-Telecommunication system (P.017110 G 11077 I002) , PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work				
471	Analog Phone	2	Nos	10,000.00	20,000.00
472	Analog Phone Ex Proof WP IP 65	1	Nos	20,000.00	20,000.00
473	FXO cards	1	Nos	30,000.00	30,000.00
474	FXS	1	Nos	30,000.00	30,000.00
475	Five pair armoured telephone cable, size 0.5mm2	100	MTR	300.00	30,000.00
476	**AT Bokaro** Free issue RTU by GAIL: Transportation from Gail store to site location, installation, cabling from LCP to RTU, commissioning etc. Erection, installation of RTU inside the station control room including supply of all the required erection materials, fabrication and civil works	1	LS	2,00,000.00	2,00,000.00
477	**Sub-Total Section G**				**20,80,000.00**
478	Total of Section A + B + C + D + E + F + G				**24,83,45,085.00**

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	ANNEXURE - I **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL**	**Rev.00** **Date-11.02.2022**
		Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**

M/s. TECHNO GLOBAL SERVICES PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
479	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Total of Section A + B + C + D + E + F + G above	18	percentage		4,47,02,115.30
480	Rate of Extended Stay Compensation per month beyond the time schedule and grace period mentioned in Bidding document for reasons solely attribute to Owner (exclusive of GST) Notes:- 1;- Extended Stay Compensation shall be loaded on the quoted price as per evaluation methodology. 2;- In case, no rate for extended stay compensation is stipulated, it will be considered that extended stay compensation is not required by the Bidder and the rates quoted by them shall be valid till completion of works in all respects.	1	Nos		10,000.00
481	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Extended Stay Compensation at Sl. No. 480 above	18	percentage		1,800.00
	Grand Total				29,30,59,000.30

Prepared

Checked

Approved

TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. TOLANI PROJECTS PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
				UNIT RATE	TOTAL RATE
1	**SECTION-A (MAIN LINE WORKS)**				
2	**CH.0.00 KM to CH.23.436 KM**				
3	**MAINLINE, PIPING AND MECHNICAL**				
4	**PIPELINE LAYING / INSTALLATION** Laying/ installation of coated line pipe, associated fittings and accessories, etc. as per specifications, drawings, other provisions of Contract and instructions of Engineer-in-Charge, including but not limited to carrying out the following: "Receiving and taking-over", handling, loading, transportation and unloading of Owner supplied coated and bare line pipes and other Free Issue Materials from Contractor's own stock-yard to Work site including stringing on the pipeline Right-of-Use (ROU), Arrangement of all additional land required for Contractor's storage, Performing the additional survey wherein survey data is not sufficient in the opinion of Contractor, arrangement of working RoU if RoU width is not sufficient for equipment/ vehicle movement etc., access for construction (other than Owner provided ROU; Developing necessary access way to the worksite, including earth filling, levelling, etc.; supply of all materials (except Owner supplied materials), supply of all materials, consumables, equipment, labour, etc.; fabrication, Staking and installation of construction markers, clearing, grubbing, grading (as required) of Right of Use; clearing and grading of ROU; Cutting/ uprooting of shrubs, plants, vegetation within ROU; , Trenching to all depths and to a width to accommodate the pipeline with optical fiber cable (inside HDPE Duct) by excavation in all types of soil (in case of hard rock, additional payment for hard rock breaking will be paid as per separate SOR line item), including additional trenching for seismic and other areas as specified,(Rate for laying of optical fibre cable and HDPE Duct not be included here and same to be quoted against separate SOR item); Carrying out repairs of pipe and coating defects not attributable to Owner; Thorough internal cleaning of all pipes by suitable methods to remove debris, shots, grits etc.; Stringing of line pipes along ROU including providing straw bags, soft padding/sand padding; Aligning, cold field bending, cutting and beveling (as required) of pipes for welding and field adjustments, NDT & NDT of re-beveled area, welding, carrying out destructive & non- destructive testing of welds required as per approved NDT specifications (including radiography) and providing all requisite equipment, labour, supervision, materials, films, consumables etc.; carrying out repairs of weld joints as required, carrying out re- radiography and other non-destructive tests on repaired joints, etc.; Installation of carrier pipe including concrete coated pipes (wherever required),				
5	(Concrete Coating on pipes, covered separately) at all crossings including roads/ canals/ nala/ water crossings etc. (supply and installation of casing pipe by open cut or by Jacking/ boaring method covered separately) including pre-testing as required; Carrying out installation of carrier pipe in the casing pipe at cased crossings; Coating of all field weld joints, long radius bends (fabrication of Cold field bends covered here and fabrication of 6D bends by induction heating covered separately), buried fittings etc.; Supply & Installation of warning tape along the entire length of Pipeline including Crossing. Lowering the pipelines in trench, providing required padding over and around the pipeline with sand/graded material (in rocky areas), backfilling with available approved excavated material and/or other suitable soil (supply and providing of soft soil for pre & post padding in Rocky area); Supply and installation of slope breaker as per specifications and drawings in steep slope areas, wherever required; Carrying out hydrostatic testing including air cleaning, flushing, filling, gauging, pressurization of complete pipeline in various test sections as approved by Engineer-In-Charge to the specified test pressure, providing all equipment, pumps, fittings, instruments, dead weight tester, all types of pigs etc., and services, supervision, labour, consumables, arranging water required for hydrostatic testing including supply of corrosion inhibitor, air, etc. as required, locating of leaks and rectification of defects attributable to Contractor, re-testing after rectification, successful completion of hydro-testing of pipeline (De-watering covered else where in the SOR); including all tie-in(s) with the pipeline/ piping installed by others including cutting of test header, re- beveling as required; Carrying out all temporary, ancillary, auxiliary works and all incidental works required to make the pipeline ready for pre- commissioning; Carrying out EGP for the entire stretch of completed pipeline, Repair of defects recorded during EGP/gauge plate run or otherwise including cutting, beveling, welding, NDT, field joint coating etc.; as applicable, Final clean-up and restoration of right of use including obtaining NOC from respective statutory authorities as required and disposal of debris and returning all surplus material to designated disposal areas/storage yard, as directed by Engineer-In-Charge; Restoration of land, facilities and boundary wall etc. at associated facilities dismantled/damaged by the Contractor during construction; Obtaining work permits/ NOC from various statutory authorities having jurisdiction and complying with all stipulation/conditions/recommendation of the said authorities; Preparation of as-built drawings, pipe-book and other records. SOR shall be read in conjunction with Project drawings, scope of work, specifications, standards and other provisions of contract document. The work includes the Survey data & site preparation, Stringing/Chainges in direction, Beveling of pipe element, Welding Procedure Qualification & Welders Qualification, Welding of pipe element, Inspection & testing of production welds, Field joint coating, controlled blasting, chiseling, etc., Material hand over & material handling, Lowering-in & ballasting, All crossings except HDD as mentioned in Crossing List (including installation of carrier pipe inside the Casing at cased crossing) , Backfilling (for all depths in all types of soil, soft /hard rock) , including trench padding with sand, graded earth in rocky areas & rock shield(if required as per specs) reinstatement (restoration) and preparation of As-built Alignment & Crossing drawings.				

Prepared Checked Approved

TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. TOLANI PROJECTS PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
6	All above works shall be executed in accordance with scope of work, GTS, PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. 1. Supply and Installation of OFC and HDPE Ducts along the entire pipeline route, adjacent to the new pipeline, along with all required accessories, fittings and associated items, is covered separately in the SOR. All above works for buried pipeline (including hook-up pipeline from Tap Off Point inside ONGC GCS, Bokaro upto proposed plot for GAIL DT), as per following details :				
7	ND12", API5L X70 - 6.4 mm	6500	M	2,862.00	1,86,03,000.00
8	ND12", API5L X70 - 7.1 mm	15850	M	2,898.00	4,59,33,300.00
9	ND12", API5L X70 - 8.7 mm	150	M	2,988.00	4,48,200.00
10	**Concrete slabs (Mechanical Protection) as per technical specifications** Supply, fabrication and installation of reinforced concrete weights. Reinforced steel size should be 8 mm. top and bottom at a rate of 200 mm c/c of precasted RCC 1:2:4 on pipeline of wall thickness of 75 mm thick and size as per specifications & Standard drawings and instructions of Owner/ Owner's representative including supply of consumables, materials, equipment, labor, supervision, all associated civil works.	382	M	720.00	2,75,040.00
11	**Continuous Concrete Coating** Supply of all consumables and materials, equipments, manpower, submission of application procedure with calculations for anti-buoyancy, design mix procedure qualification and application of continuous concrete weight coating thickness mentioned below (higher also, in case design requirements) on pipeline of all thickness, concrete weight coating of the field joints thereof, and performing all works as per specifications and instructions of Owner/Owner's representative and other provisions of CONTRACT DOCUMENT.				
12	35 mm thick	12	M	4,500.00	54,000.00
13	50 mm thick	12	M	5,400.00	64,800.00
14	**GEO TEXTILE BAGS FOR ANTI-BUOYANCY**				
15	Additional works over and above item no. 4 to 9 for design, manufacture and supply of Non-biodegradable geo-textile bags and installation of geo-textile bags duly filled with gravel/ stone ballast on pipelines of all wall thicknesses for anti-buoyancy, drawings, scope of work and instructions of Engineer-in-Charge and other provisions of the Contract document. Note: This item shall be applicable for Some crossings as per instructions of Engineer-incharge.				
16	ND12" (for all thicknesses)	12	M	1,800.00	21,600.00
17	**Permanent Markers** Supply, fabrication and installation of following types of permanent markers along the pipeline route including all associated civil works such as excavation in all types of soil, construction of pedestals and grouting with concrete, clearing, supply & application of approved color and quality of primer and paint, stencil letter cutting for numbers, direction, chainage, etc. restoration of area to original condition and performing all works as per drawings, specifications and instruction of Owner/Owner's Representative.				
18	Pipeline Warning Signs	35	Nos	9,000.00	3,15,000.00
19	Right-of-way boundary markers	94	Nos	1,800.00	1,69,200.00
20	Kilometer Markers	19	Nos	9,000.00	1,71,000.00
21	Aerial Markers	4	Nos	12,600.00	50,400.00
22	Navigable Waterway Markers	8	Nos	14,400.00	1,15,200.00
23	Directional Markers	297	Nos	7,200.00	21,38,400.00
	Repair of Defects in Pipe Coating (Attributable to OWNER)				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. TOLANI PROJECTS PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
25	**Repair of Line Pipe Coating:** Supply of all coating repair materials as per the requirements of the relevant specifications, supply of all consumables, utilities, equipment, and all manpower required, pipe cleaning and surface preparation, repairing of coating defects (resulting in holiday in coating) and testing including all handling, transportation, etc. for line pipes, performing all works necessary for the completion of the works strictly in accordance with the relevant specifications and instructions of OWNER.				
26	**Repair of Holidays in Coating**	40	Nos	450.00	18,000.00
27	Repair of Cosmetic Defects in Coating: Description of same as in 25 above, but for repair of cosmetic defects in coating.	80	m2	90.00	7,200.00
28	Repair of Defects in Line Pipes				
29	Repair of OWNER supplied pipes of all wall thicknesses, recorded at the time of taking-over by CONTRACTOR at all places of work.				
30	Cutting and rebevelling	25	Nos	9.00	225.00
31	Jack out method	25	Nos	9.00	225.00
32	All works for locating burst (occurred during hydrostatic testing and tightness test attributable to Owner issued materials) including detecting burst, necessary repairing/replacing defective pipe lengths, including cutting out and removing the defective pipe, pretesting the replacement pipe, welding of replacement pipe into mainline and NDT of welding, repair and re-testing of defective welds, coating of welded joints, cleanup, retesting including providing all labor, materials, consumables and inputs other than OWNER supplied materials and performing all works as per drawings, specifications and directions of Owner/ Owner's representative. In case of pinhole leaks not easily detectable all works for locating leak (occurred during mechanical resistance test and tightness test attributable to Owner issued materials) including detecting leak, The Payment will be made as per actual efforts and based on Equipment and manpower Rate provided in SCC . Further replacement & retesting will be paid as above.	2	Per burst	9.00	18.00
33	**LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER) (FOR TERMINAL PIPING)** **LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER DUE TO FIM)** All works for leak/burst (occurring during hydrostatic testing) by necessary repair/replacement of defective pipe length, including cutting and removing out defective pipes, welding, NDT of welds, repair and re-testing of defective welds, painting of welded joints, clean-up, re hydro testing of the pipe segment including providing all necessary equipment, labour, materials, consumables and inputs other than Owner supplied materials and performing all works as per drawings, scope of work, specifications, standards enclosed with the Contract and directions of Engineer-in-Charge. Note: 1. This rate shall be applicable for manufacturing defects in Company supplied materials only.	18	Inch-meter	9.00	162.00
34	**IDLE TIME PRESERVATION OF PIPELINE** Preservation of complete pipeline and associated facilities and its maintenance including supply of all consumables, all equipment, man- power, etc., complete as per the requirements of specifications, scope of work, standards, other provisions of Contract document and instructions of Engineer-in- Charge. By filling and pressurizing with nitrogen including supply and maintenance of nitrogen as per following details:				
35	Pipe OD - 12 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - 3 MONTH	23800	M	45.00	10,71,000.00
36	Pipe OD - 12 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - FOR EVERY ADDITIONAL MONTH BEYOND INITIAL 3 MONTHS	23800	M	9.00	2,14,200.00
37	PRE-COMMISSIONING FOR NATURAL GAS PIPELINES SYSTEM, Carrying out pre-commissioning activities and pre-commissioning checks to the specified acceptance criteria, making the entire pipeline system ready for commissioning (It includes cleaning including magnetic cleaning, Electrical Geometrical Pigging survey, dewatering, swabbing,, pre-drying activity, Golden-tie ins connecting the stations),, supply of all equipment, man-power, consumables, including all type of pigs and required quantity of nitrogen, materials for all temporary works and performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. TOLANI PROJECTS PVT. LTD.

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38	Pipe OD - 12 INCH	23800	M	72.00	17,13,600.00
39	**Commissioning Assistance**				
40	**OVERALL COMMISSIONING OF ENTIRE PIPELINE SYSTEM** Overall commissioning including system checks, inertisation (as required) and charging of entire pipeline system, including all stations and all associated facilities including notifying the Company that the pipeline system is ready for commissioning; Review of status jointly with the Company and obtaining final clearance for start of commissioning; Development and submission of commissioning procedures, obtaining Company approval thereupon, carrying out overall commissioning of the total pipeline system including all facilities and all necessary coordination/ liaison with other Contractor(s) operations; Carrying out commissioning; Supply of all equipment like Nitrogen vapourisers (as required), along with all piping and instruments, temporary venting/ flaring/draining facilities as applicable, man-power, consumables including pigs and required quantity of Nitrogen (as required); Performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.				
41	Pipe OD - 12 INCH	23800	M	9.00	2,14,200.00
42	PIPELINE INFORMATION MANAGEMENT SYSTEM Providing pipeline information management system using web based software for monitoring pipeline construction progress and providing all "As Built" data & drawings for entire length of pipeline as per specifications enclosed with the tender document.	1	LS	32,40,000.00	32,40,000.00
43	VIDEO FILM & PHOTOGRAPHY OF CONSTRUCTION ACTIVITIES Preparation of high resolution video films with audio commentary and Industrial photography covering all aspects/activities of pipeline construction annotated as required, conversion of same to video DVD/Blue Ray format, submitting three (3) sets of the same as per details in scope of work document	1	LS	4,50,000.00	4,50,000.00
44	**FABRICATION OF LR BENDS :**				
45	Fabrication of 6D bend / LR (Induction) bends as per the relevant standard & Specification attached with the tender document from free issue linepipes (mother pipe) including but not limited to the following: "Receiving and taking over of free issue linepipes" from GAIL Dump Yard location as mentioned in Scope of Work, carrying out inspection of line pipe at the time of receive taking over in the presence of Company representative, carrying out repair of pipe defects attributable to Contractor after taking over, including supply of consumables & equipments; handling, hauling, transportation and loading/unloading required to transport the mother pipes between place of issue, LR bend fabricator/ manufacturer, intermediate storage as required, and final delivery of fabricated LR Bends to the worksite(s), as per requirement, Manufacturing/ fabricating of LR Bends, as per project requirements and Specifications. LR bends exact angle(s) shall be as per pipeline alignment. Note:- 1. Rate for repairing of defects in linepipes identified and recorded at the time of receiving & taking over i.e. defects attributable to Company shall be quoted separately in the applicable items of the SOR. 2.Loading of Pipe into installation contractor trailer shall be carried out by the GAIL Dumpyard maintenance agency already engaged by the Company.				
46	Bare Pipe ND12", API5L X70 - 7.1 mm	18	Nos	76,320.00	13,73,760.00
47	Bare Pipe ND12", API5L X70 - 8.7 mm	22	Nos	81,000.00	17,82,000.00
48	**SUPPLY AND INSTALLATION OF CASING PIPE & 6 INCH CS CONDUIT:** Supply and installation of casing pipe and 6 inch CS conduit for OFC by jacking / boring or open cut for rail, road or canal crossings wherever required in all types of soils and terrain separately for carrier pipes and fibre optic cable inside HDPE duct, supply of casing pipes and all other Contractor supplied materials viz. casing insulators and casing end seals as per enclosed drawing, materials for casing vents and drains, etc. including transportation, supply of all other materials, equipments, consumables, man-power, welding including visual inspection of all weld joints, installation of casing insulators, end seals, vents and drain-off pipes, backfilling and restoration as original of the facility crossed and performing all works as per drawings, specifications including PTS and GTS and instructions of Engineer-in Charge and provisions of Contract document.				

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49	Supply and installation of Casing pipe by Boring / Jacking as per item no. 48 (Other than Railway Crossings) Casing Pipe Details: (Pipe 18" , 6.4 mm Thick, API 5L GR.B)	100	M	18,000.00	18,00,000.00
50	Supply and installation of 6 inch CS Conduit by Boring/Jacking as per item no. 48 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	100	M	7,200.00	7,20,000.00
51	Supply and installation of Casing pipe by open cut as per item no. 48 Casing Pipe Details: (Pipe 18" , 6.4 mm Thick, API 5L GR.B)	100	M	14,400.00	14,40,000.00
52	Supply and installation of 6 inch CS Conduit by open cut as per item no. 48 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	100	M	5,400.00	5,40,000.00
53	**HDD CROSSING**				
54	**Generalities**				
55	Topographic / Bathymetry, Geotech Investigation and Hydrological data collection				
56	Site preparation				
57	Design & stress calculations as per requirement				
58	Material hand-over and material handling				
59	Site reinstatement				
60	Final dossier including all notes & calculations as required in the specification				
61	**Installation of 6 inch CS Conduit**				
62	Teletransmission--Separate Drilling for 6 inch CS Conduit for OFC installation				
63	Installation of HDPE duct & OFC cable inside 6 inch CS conduit				
64	Drilling & Pulling of 6 inch CS Conduit shall be done before mainline HDD.				
65	**Pipeline string**				
66	Beveling & welding				

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67	Inspection & testing of welds				
68	Field joint coating				
69	Temporary support (roller)				
70	Control of pipeline string				
71	Hydrotesting & leak test				
72	**Drilling operation**				
73	Earthwork entry / exit points including grading erection of embankment etc..				
74	Supply & clearing out of all material needed for drilling				
75	Drilling of washer pipe, reaming & cleaning of drill opening, supply and preparation of bentonite				
76	Pull back of the pipe string				
77	Disposal of surplus of soil & bentonite				
78	Control of the integrity of the coating				
79	**Work at entry point**				
80	Changes in direction				
81	Beveling & welding				
82	Inspection & testing of welds				
83	Field joint coating & coating of all bare section of pipe				
84	Earthwork				
85	Lowering-in				
86	backfilling as required				
87	**Work at exit point**				

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88	Changes in direction				
89	Beveling & welding				
90	Inspection & testing of welds				
91	Field joint coating & coating of all bare section of pipe				
92	Earthwork				
93	Lowering-in				
94	backfilling as required				
95	Complete work for the water/ Road/ Rail crossings, including taking over and handling of linepipes from Contractor Storage Yard to worksite, Arrangement of all additional land required for Contractor's storage, fabrication, access for construction; construction design calculation and engineering of the crossing, mobilization and demobilization at site(s), supply of all materials as per "Scope of Supply" and all consumables, equipment, manpower and other resources, and acquiring the required land for site preparations, and execution of, but not limited to, the following works in accordance with specifications, drawings, and as per provisions of the Contract document and instructions of the Company/ Engineer-in- Charge: Carry out all surveys required for collecting data relevant to design and construction of the crossing, preparation of all necessary construction drawings for Company's approval as per the provisions of the Contractor document, Preparation of detailed construction method statement and calculations including Scour Depth calculations for river/ canal crossings, Strings preparation including welding, 100% Radiography of welds, NDT of welds and re-beveled areas, radiography, weld repair and re-test, pre-testing of completed string, corrosion coating of field joints with Dirax or equivalent, inspection of corrosion coating and repair of defects, Preconstruction surveys and collection of all necessary data, Installation of pipeline and CS conduit (6 Inch CS Conduit shall be installed through Seperate Drilling) , horizontal directional drilling to the correct profile as per approved drawings and specification, Post-installation hydrotest including leaks and repair of defects and retesting, etc. for defects attributed to Contractor's faulty work, Supply, fabrication and construction of protective fencing as required, Hydrotesting, Supply, fabrication and erection of pipeline markers, Restoration and clean-up etc., Preparation of as-built drawings and other records etc., All other works not specifically listed herein, but required as per specifications, drawings, provision of contract document, calculations, and construction method statements, leading to successful completion of works.				
96	Linepipe details:- (Pipe 12" dia, Wall Thickness: 7.1 mm, Pipe Grade: API 5L GR.X-70 PSL 2, External Coating: 3LPE) CS Conduit details: (Pipe 6" dia, 6.4mm Thick, API 5L GR.B) Note: 1. CS Conduit shall be supplied by the Contractor. Radiography & Hydrostatic testing is not required to be done for CS Conduit. (6 Inch CS Conduit shall be installed through Seperate Drilling) Contractor shall quote accordingly. 2. The rate shall be applicable for the drilled length of the HDDs.	1300	M	20,250	2,63,25,000.00
97	All above works shall be executed in accordance with scope of work, GTS,PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. This line item is applicable for HDD crossing mentioned in the Crossing List with prior approval of Engineer - In-Charge during Construction.				
98	**SUPPLY & INSTALLATION OF OPTICAL FIBBE CABLE AND HDPE DUCT**				
99	Suppy of 24 Fibre Composite armoured Optical Fibre Cable drum (6 fibre G-655 & 18 fibre G-652) of 4 km +/-5% Cable drum length with fiber terminal closure, inspection chamber, electronic route marker all along pipeline route, Two number electronic locater as per PTS-Optical Fibre cable and Scope of Work C&I along with all required accessories and fitments not mentioned seperately.	26200	M	108	28,29,600.00

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100	Inspection/Jointing Chamber (fabricated or readymade)	8	Nos	18,000	1,44,000.00
101	Blowing Pit (fabricated or readymade)	25	Nos	18,000	4,50,000.00
102	Supply of jointing closure 24 Fiber, 2 way including all accessories (3M, Siemens, Reychem make only)	10	Nos	9,000	90,000.00
103	Supply of End to End OFC termination of wall mounted FTC with pig tails other accessories for termination of OFC - 24 Fibre in the Telecom Room at Bokaro & SV1	2	Nos	27,000	54,000.00
104	Electronic marker	8	Nos	36,000.00	2,88,000.00
105	Electronic Locator	1	Nos	4,50,000.00	4,50,000.00
106	Supply of 50mm OD permanently lubricated HDPE telecom duct along with all the required accessories as per PTS-Optical Fibre cable and Scope of Work C&I	26700	M	108.00	28,83,600.00
107	Laying of HDPE Duct : Laying of 50mm HDPE Ducts in same pipeline trench direct buried, or inside 6 inch CS conduit at various crossings as per Specification in all type of soil & terrain, excavated as required, padding, backfilling, etc. including supply of accessories required for HDPE Duct installation, including plastic couplers, end plugs, cable sealing plugs, end caps, etc. suitable & sufficient for above supplied ducts, cleaning and sealing of ducts at the end laid drum lengths, preparation and supply of cable blowing pit at each Km jointing of HDPE duct, testing of HDPE Duct and accessories after laying preparation of report and final drawing and documents as per specification, joint location marking, erection accessories, as-built, etc.	22500	M	18.00	4,05,000.00
108	Blowing of Optical Fibre Cable inside HDPE Duct : All activities pertaining to Blowing of Optical Fibre Cable in same pipeline trench directly (after testing drum at site), inside HDPE duct along the pipeline and at crossing, sealing using all materials required as per specification	22500	M	63.00	14,17,500.00
109	Installation of FTC & Wire mesh, termination of OFC on FTC / DDF inside telecom room, splicing with steet fibre, fibre test, OTDR test, power testing of laid OFC, identification of fault, rectification, earthing, final testing and commissioning, preparation of reports, etc. work complete in all respect with all necessary accessories for all location till final Handing Over and Taking Over by Owner of laid OFC.	1	LS	54,000.00	54,000.00
110	**TRANSPORTATION OF COATED AND BARE LINEPIPES FROM GAIL DUMPYARDS (ANY LOCATIONIN INDIA) TO CONTRACTOR STORAGE YARD:**				
111	"Receiving and taking over" of "free issue" Linepipes from GAIL Dump Yard location (any location in India); Carrying out inspection of Linepipes at the time of receiving and taking-over, recording of pipe & coating defects at the time of taking over in the presence of Company's representative, carrying out repair of coating defects & pipe defects attributable to Company; including supply of materials, consumables & equipments; handling, hauling and transportation from designated place of issue to Contractor Storage Yard; unloading and stacking of the linepipes at Contractor Storage Yard; including arranging all equipments, trailers, trucks & manpower; all works as per Scope of Work, drawings, PTS, GTS and other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, Provision of Contract & instructions of Engineer InCharge.				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

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112	Linepipe Details:- Coated and Bare Line Pipe 12" diameter API 5L Gr. X-70 PSL-2 Wall Thickness - 6,4mm / 7.1mm / 8.7 mm External Coating - 3LPE, Internal Coating - Liquid Epoxy 1) Loading of Pipes into Installation contractor's trailer shall be carried out by the contractor. 2) Development & Maintenance of Contractor Storage Yard adequate to store the linepipes including arrangement of all Lifting & Handling equipment at Contractor's Storage Yard shall be done by the Contractor. Rate for the same shall be quoted in applicable items. 3) Rate for repairing of coating defects in linepipes identified and recorded at the time of receiving & taking over i.e. coating-defects attributable to Company shall be included in this item. 4) Rate for repairing of pipe-defects identified and recorded at the time of receiving & taking over i.e. pipe-defects attributable to Company shall be quoted separately in the applicable items of the SOR. 5) Transportation of line pipe from Contractor's Storage Yard to work site is included in SOR item 1 above, No separate payment will be applicable for the same.	220000	Ton-Km	27.00	59,40,000.00
113	**TRANSPORTATION OF FREE ISSUE PIPING ITEMS (OTHER THAN LINE PIPE) FROM GAIL STORAGE YARDS (ANY LOCATION IN INDIA) TO CONTRACTORS YARD / WORKSITE(S) :** "Receiving and taking-over", handling, lifting, loading, transportation and unloading of Company supplied "free-issue materials" (Other than line pipe) viz. Metering Filtering and PRS Skid, Scrapper Launcher/ Receiver & accessories, Valves with or without Actuators, Insulation Joints, Flow Tee, Pig Signallers, fittings, flanges etc. from GAIL Storage yards location (any location in India) to Contractor's Storage Yard / work-site(s). Note:- 1) Location of GAIL Storage Yard shall be anywhere in India. Contractor shall quote accordingly. 2) Transportation of FIM from Contractor's Storage Yard to work site, is included in SOR item 121 below, No separate payment will be applicable for the same.	15000	Ton-Km	36.00	5,40,000.00
114	**DEVELOPMENT OF CONTRACTOR STORAGE YARD:**				
115	Development of the Contractor Storage Yard including fencing, illumination etc., including deployment of all lifting and handling equipments, manpower required to stack, unload and load all Free Issue Material (FIM) including Line Pipes and all bought out items, as required; storage of all Free Issue Material and bought out items for the required duration as per project requirement, all works as per Scope of Work, drawings, other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, PTS, GTS and Provision of Contract & instructions of Engineer In-Charge. The storage yard shall be used for storage of all Free Issue Line pipes, all other Free Issure Material (FIM) and all bought out items required for the project. Notes:- 1) Development of contractor storage yard adequate to store all the material required for Project, including all Free Issue Material (FIM) and bought out items. (Rate for the same shall be captured in this item) 2) Maintenance of contractor storage yard for the entire project period is included in the scope of contractor. No separate payment shall be applicable for the same.	1	LS	7,20,000.00	7,20,000.00
116	Hard Rock breaking by controlled blasting / chiseling method (rate will be applicable in case when prior approval for rock breaking is obtained by the contractor from GAIL / PMC)	100	M3	3,000.00	3,00,000.00
117	Clean Agent Fire Supression System as per Scope of Work	1	LS	88,11,000.00	88,11,000.00
118	Restoration of underground utilities (pipes & cables) during excavation at ONGC, GCS Bokaro and Receiving Station (which is inside SV-01 Premises)	10	Nos	9,000.00	90,000.00
119	**Sub-Total Section A**				**13,47,35,430.00**
	SECTION-B [MECHANICAL (PIPING & TERMINAL WORKS)]				

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	M/s. TOLANI PROJECTS PVT. LTD.				
S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
121	**PIPING WORKS AT DESPATCH AND RECEIVING STATIONS AND HOOK-UP WITH ONGC GCS, BOKARO** All works for installation of all piping at all elevations for Despatch and Receiving Stations as indicated in Drawings, Scope document, including supply of all consumables, Gaskets, nuts, bolts Studs, manpower, materials and equipment (except Company supplied free-issue materials), aligning, grouting, tie-in with pipeline and carrying out all mechanical works of underground and above ground piping including fabrication, welding, installation of all pipes, valves (manual & actuated), flanges, fittings, flow tees, pig signalers, insulating joints, corrosion monitoring probes /corrosion coupons, installation of instruments (pressure/temperature gauges, vents, drains-off, safety relief valves, electro hydraulic valves etc.) as indicated in P& IDs and GADs. 100% Radiography of weld joints of piping above 1.5 inch, Magnetic particle & Die penetration test for piping 1.5 inch & below, all NDT of welds, weld repairs/retesting, hydrostatic testing, cleaning/flushing, functional testing, de-pressurizing , Drying and dewatering, cutting and re-beveling (as required), hookup of all pipeline/utilities at the battery limit with the pipeline/utilities installed by others, obtaining all statutory clearances, approvals and permissions for the work (wherever required), excavation and filling in all types of soils including soft/hard rock for installation of piping/ pipe supports; corrosion coating and external painting (as required), finishing, clean-up and restoration of site, preparation of as- built drawings, documents and project records and performing all works as per drawings, specifications, other provisions of Contract document and instructions of Engineer-in-Charge. Civil/ structural works for piping supports will be paid separately as per unit rate provided elsewhere in the contract. Cost of Transportation of all materials (Including FIM mentioned above) for station works, from Contractor's own stock-yard to Work site, to be included in this SOR item. No separate payment will be applicable for the same.				
122	Fabrication and Erection of piping as per item no.110, (For Pipe Size 2 Inch and above, 100% Radiography) Note: 1. Rate for Handling, Fabrication and erection of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item. Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor.Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes 2" & above, shall also be part of this item. Contractor shall quote accordingly.	1900	Inch Dia Meter	990.00	18,81,000.00
123	Fabrication & Erection of Piping as per item no.110 (For Pipe Size Below 2 inch, Magnetic particle & Dye Penetration Test as per the requirement of specification)	50	Inch Dia Meter	1,440.00	72,000.00
124	Painting of Piping (Pipe, Fittings, Flanges, Valves, Equipments, etc.) as per item no. 110	1950	Inch Meter	144.00	2,80,800.00
125	Hydrostatic testing, cleaning / flushing, functional testing, de-pressurizing, dewatering & drying of Piping as per item no. 110 (for all size upto 12").	1950	Inch Meter	90.00	1,75,500.00
126	**INSTALLATION OF COMPANY SUPPLIED FIM (FML SKID AND PIG LAUNCHER/RECEIVER SYSTEM) AT DESPATCH TERMINAL AND RECEIVING TERMINAL**				
127	Installation of Company supplied Filtering, Metering and PRS Skid and Scrapper Launcher/ Receiver with accessories, at stations including all handling and installation works; as per drawings, specifications enclosed with the Contract and directions of Engineer-in-Charge. Cost of Transportation of above Free issue items, from Contractor's own stock-yard to Work site for station works, to be included in this SOR item. No separate payment will be applicable for the same.	1	LS	45,00,000.00	45,00,000.00
128	**CONTRACTOR SUPPLIED ITEMS:(Supply of Items as per attached PTS,GTS,Data Sheet,QAP and PMS)**				
129	**Station pipe -Seamless**				
130	1" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, PE, SEAMLESS	6	Meter	1,440.00	8,640.00
131	2" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	90	Meter	2,700.00	2,43,000.00
132	4" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	120	Meter	3,600.00	4,32,000.00
133	10" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	12	Meter	14,400.00	[illegible]300.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. TOLANI PROJECTS PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
134	12" pipe, 7.1mm thk, ANSI B 36.10, API 5L X 70,HFERW	84	Meter	11,700.00	9,82,800.00
135	**Supply of fittings & Flanges**				
136	1 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 350 LF2,CL1, BW, ANSI B16.25	4	Nos	1,350.00	5,400.00
137	1" WNRF FLANGES, 6C1, SCH. 160 / 600#, WNRF, B-16.5, ASTM A350 LF2, CL1, BW-ANSI B16.25 RF	4	Nos	1,530.00	6,120.00
138	1", BLIND FLANGES, 6C1, 600#, RF, B-16.5, ASTM A350 LF2, CL1, RF	4	Nos	1,620.00	6,480.00
139	3/4" EQUAL TEES, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25,	2	Nos	1,170.00	2,340.00
140	3/4", CUP THREADED 6C1, 6000#, ANSI B16-11, ASTM A 350 LF2, CL1 , BW - ANSI B16.25, ANSI B1.20.1,	3	Nos	900.00	2,700.00
141	**WELDOLETS (MAINLINE x BRANCH SIZE)**				
142	4" x 1", WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	4	Nos	2,340.00	9,360.00
143	12" x 2" WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 7.1 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 694 F70	5	Nos	2,700.00	13,500.00
144	12" x 2", WELDOLETS (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 7.1 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	35	Nos	2,700.00	94,500.00
145	**GASKETS**				
146	GASKETS, 6C1, 600#, RF, ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 1"	12	Nos	108.00	1,296.00
147	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 2"	210	Nos	216.00	45,360.00
148	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 4"	30	Nos	450.00	13,500.00
149	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 10"	2	Nos	1,080.00	2,160.00
150	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 12"	44	Nos	1,350.00	59,400.00
151	**NIPPLES**				
152	NIPPLES, 6C1, Sch 160 /600#, ANSI B 36.10, ASTM A333 GR.6, BOTH ENDS PLAIN, SEAMLESS-LG=100mm, 3/4"	10	Nos	810.00	8,100.00
153	NIPPLES, 6C1, Sch 160 / 600#, ANSI B 36.11, ASTM A333 GR.7, ONE END THRD -MNPT SEAMLESS- LG=100mm, 3/4"	8	Nos	990.00	7,920.00
154	**Supply of following Valves as Per attached PTS,GTS,Data Sheet,QAP,PMS & MTO**				
155	1",BALL VALVE - FULL BORE (RF) (ABOVE GROUND),6C1	6	Nos	27,000.00	1,62,000.00
156	3/4", CHECK VALVE (RF) (AG), 6C1	2	Nos	18,000.00	36,000.00
157	**3/4",NEEDLE VALVE, 6C1**	5	Nos	9,000.00	45,000.00
158	Note (Applicable for all items of SOR item No 128 to 157): 1. Before procurement of any of the above materials Contractor will take prior approval from GAIL / PMC. 2. Payment will be made for actual quantity used.				
159	**Sub-Total Section B**				**92,69,676.00**
160	**SECTION-C [CIVIL / STRUCTURAL & ARCHITECTURAL]**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. TOLANI PROJECTS PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
161	**CIVIL , STRUCTURAL & ARCHITECTURAL**				
162	**Earthwork excavation in soil**				
163	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	2900	cum	36.00	1,04,400.00
164	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth beyond 1.5m and upto and inclusive of 3.0m including Removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	70	cum	405.00	28,350.00
165	**Earthwork excavation in soft rock**				
166	Earth work in EXCAVATION below ground level for all kinds of works in SOFT ROCK and HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as irected including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	255	cum	720.00	1,83,600.00
167	**Backfilling after execution of work**				
168	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps within a LEAD OF 100M,including re-excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/ mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	1150	cum	144.00	1,65,600.00
169	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps beyond a LEAD OF 100M AND UPTO & INCLUSIVE OF 500M including re- excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	490	cum	180.00	88,200.00
170	**Transporting & Disposing the SURPLUS EARTH AND DEBRIS**				
171	Transporting and disposing the SURPLUS EARTH AND DEBRIS including shrubs and vegetations from construction areas to areas ANYWHERE OUTSIDE THE PLANT BOUNDARY, including re-excavating the deposited soil excavated earlier, loading, transportation, unloading, laying at all depths and heights, stacking,levelling and dressing both the area (viz. from where the earth is transported and where it is deposited) to required levels and slopes complete with all lifts as directed. For carting on the basis of truck measurements (volume of truck reduced by 30% for voids). DISPOSAL AREAS OUTSIDE PLANT BOUNDARY TO BE ARRANGED BY THE CONTRACTOR. Royalty as applicable for disposal outside plant limits to be borne by the Contractor	1310	cum	99.00	1,29,690.00
172	**EARTH WORK FILLING BY EXCAVATION**				
173	EARTHWORK IN FILLING by excavating the earth from BORROW AREAS arranged by CONTRACTOR for all leads, transporting the earth from borrow area including cleaning & stripping the earth at borrow areas, breaking clods, loading, unloading and laying at all depths and heights in layers of thickness not exceeding 15 cms., watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% of the maximum laboratory dry density, ressing, trimming, levelling the top surface etc. in foundations, plinths, trenches etc. all complete.	9555	cum	612.00	58,47,660.00
174	**PLAIN & REINFORCED CEMENT CONCRETE: (REFER SPECIFICATION NO. (Z/02/0004)**				
	PLAIN CEMENT CONCRETE - PCC				

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		Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**

M/s. TOLANI PROJECTS PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
176	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:4:8 (1 cement : 4 coarse sand (Zone-III) : 8 graded stone aggregate 40 mm nominal size)	160	cum	7,407.00	11,85,120.00
177	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:3:6 (1 cement : 3 coarse sand (Zone-III) : 6 graded stone aggregate 40 mm nominal size)	22	cum	7,650.00	1,68,300.00
178	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:2:4 (1 cement : 2 coarse sand (Zone-III) : 4 graded stone aggregate 20 mm nominal size)	150	cum	7,920.00	11,88,000.00
179	Providing and laying PLAIN CEMENT CONCRETE for all depths below and upto plinth level in foundations, drains, fillings, non-suspended floors, pavements & ramps or any other works etc. including shuttering, tamping, ramming, vibrating, curing, etc. all as specified in any shape, position, thickness and finishing the top surface rough or smooth as specified and directed all complete for concrete grade M20 with 20mm and down size graded crushed stone aggregates/Gravels. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR	26	cum	8,100.00	2,10,600.00
180	**RCC WORKS**				
181	**SUBSTRUCTURE**				
182	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUBSTRUCTURE INCLUDING CENTERING & SHUTTERING) e.g. foundations, raft, beams, pile caps, Retaining walls, counterforts, buttresses, pedestals, pipe sleepers, columns, suspended floors, staircases, landings, steps, brackets etc., including equipment/ machine foundations & pedestals viz. compressors, generators, etc. (including single pour concreting as specified on the drawing), applying cement wash on concrete surface (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering, etc., wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT)for all depths below and upto plinth level in any shape, position and thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	1220	cum	10,800.00	1,31,76,000.00
183	**SUPER STRUCTURE- EXCLUDING CONTROL ROOM BUILDING, GUARD ROOM & BOUNDARY WALL**				
184	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUPER STRUCTURE INCLUDING CENTERING & SHUTTERING in suspended floors, slabs, beams, columns, walls including counterforts, staircases, landings, steps, facias, fins, mouldings, gutters, shelves, window sills, canopies, lintels, girders, ducts, brackets, chajjas with drip moulds, pedestals, posts, struts, equipment/ machine foundations, ramps etc. (including single pour concreting as specified on the drawing), providing cement wash (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT) FOR ALL HEIGHTS UPTO & INCLUSIVE OF 20 m ABOVE PLINTH LEVEL in any shape, position, thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	70	cum	11,070.00	7,74,900.00
185	**CONTROL ROOM BUILDING (SUPERSTRUCTURE)**				
186	Construction of Control Room Building as per drawings and specification. Building work for all Superstructure works INCLUDING CENTERING & SHUTTERING , Reinforcement , masonry work, partition wall, Plastering & pointing, flooring, Floor finishes, Door & windows, rolling shutter, false ceiling, all finishes, painting, roof treatment complete in all respect etc.)	215	m2	32,400.00	69,66,000.00
187	**GUARD ROOM (SUPERSTRUCTURE)**				
188	Guard Room as per drawings and specification. Building work for all superstructure works including (Reinforcement, masonry work Plastering & pointing, flooring, Floor finishes, Door & windows, painting, roof treatment, all finishes, water supply and sanitary work complete in all respect etc.)	17	m2	31,950.00	5,43,150.00
189	**HYD Bars / MS Bars**				

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190	Supplying and placing in position HIGH YIELD STRENGTH DEFORMED STEEL BARS REINFORCEMENT of Grade Fe500D TMT conforming to IS:1786, for RCC work (excluding control room building & Guard room & boundary wall superstructure) including transporting the Steel, straightening, cleaning, decoiling, cutting, bending to required shapes and lengths as per details, binding with 18 SWG black soft annealed binding wire at every intersection, supplying and placing with proper cover blocks, supports, chairs, overlaps, welding, spacers, fanhooks etc. for all heights and depths etc. all complete as directed. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE	136	MT	89,100.00	1,21,17,600.00
191	**BOUNDARY WALL (SUPERSTRUCTURE)**				
192	compound wall (Superstructure)with RCC columns, beam, coping and Brick masonry (3.0m high) with an additional 0.6m high barbed wire & concertina coil (dia. 600mm) overhead on 'Y' shape structural steel frame. (SUPERSTRUCTURE) works included (masonry work, Plastering ,painting, CENTERING & SHUTTERING complete in all respect etc.)with gate and supplying, fixing and tensioning in position 2.5mm(12 gauge), 2 ply, 4 points, GI Barbed wire designation A-1 conforming to IS:278 in horizontal rows and cross diagonals for compound wall "Y" shaped overhang etc. with necessary GI staples, clips and pins, GI straining bolts and binding wire with all labour and materials etc. complete as per drawings, specifications and directions of Engineer-in-Charge.(The barbed wire shall be measured in linear length of the barbed wire actually fixed) Supplying, fabricating and fixing in position structural steel line posts, straining posts, struts for 'Y' shaped overhang etc. conforming to IS:2062 over brick/stone Masonry/ RCC compound walls/ columns, cutting to required size as per drawings and specifications, welding where necessary, embedding in position, holding to correct level and line, any auxiliary structure for dummy supports, drilling holes and painting as per painting specification attached with tender, cutting brick/rubble/concrete surfaces if necessary, grouting with M20 grade concrete including cost of grout with all labour and material etc. complete as per drawings, specifications and directions of Engineer-in-Charge.(All materials including cement shall be supplied by contractor).	285	RM	12,510.00	35,65,350.00
193	**STRUCTURAL STEEL WORKS (REFER TE SPECIFICATION)**				
194	Supplying, fabricating and erecting of structural steel and applying COATING (Post-erection/ Field) of approved quality and shade as per TE Specification or Job Specifications, wherever applicable) over the coat of shop primer already applied, including storage, surface preparation, degreasing, cleaning, drying, providing necessary arrangement for access, testing etc. including touching up of shop for steel structures (Including Wicket Gate, Main Gate and emergency gate, excluding ladders, spiral stairways & hand rails) at all location & levels, all complete as specified, for UNIT (INLAND) areas considering environment classification as INDUSTRIAL. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE. (Unit rate based on Structural steel weight)	19.5	MT	1,31,400.00	25,62,300.00
195	MISCELLANEOUS STEEL WORKS (REFER TE - SPECIFICATIONS)				
196	**MS Chequered Plates**				
197	Supplying, fabricating and erecting in position at all levels and locations bolted, screwed and/or welded M.S. CHEQUERED PLATES of any thickness in walkways, platforms, staircases or any other place as directed, etc. cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing, welding, preparation and submission of fabrication drawings and preparing the surfaces for painting and applying shop primer as per TE Specification after fabrication and return of unused/ scrap/ unserviceable chequered plates to Owner's store and material reconciliation etc. all complete as specified and directed	1.5	MT	1,41,300.00	2,11,950.00
198	**Anchor Bolts**				
199	Supplying, fabricating, fixing and keeping in position at all levels and locations THREADED ANCHOR BOLTS of all diameters and nomenclature including nuts, washers, anchor plates, pipe sleeves etc. in foundations, columns, pedestals, slabs, beams, walls etc. or any other place as directed including handling & transporting, straightening if required, turning from relevant size M.S. rounds to required diameter, threading, welding, providing necessary templates and auxiliary dummy structures, if any, necessary tying and welding with reinforcement, adjustment of shuttering & reinforcement/any other fixture, greasing exposed metal surfaces, covering bolts and packing the sleeves with jute cloth etc. all complete as specified and directed.(SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1	MT	1,44,000.00	1,44,000.00
200	**MS Metal Inserts**				
201	Supplying, transporting, storing, fabricating and fixing in position M.S. METAL INSERT (with lugs) of any shape made out of flats, plates, rolled sections, pipes etc. providing necessary templates, staging, cutting,straightening, if required, bolting, welding as required and embedding in position on both Plain and Reinforced Cement concrete members inclusive of adjusting shuttering & reinforcement/ any other fixture, welding where necessary, tying and holding to correct level, line and position, any auxiliary dummy structures to support the heavy inserts, painting exposed surfaces with a coat of primer as per TE Specification all complete for all depths and heights as specified and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	0.55	MT	1,53,000.00	84,150.00
202	**MS Grating**				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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203	Supplying, fabricating and erecting in position at all levels and locations ELECTROFORGED GALVANISED GRATING (purchased from approved manufacturer by the Contractor) conforming to TE STANDARD (in walkways, platforms, stair treads etc.) including cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing with manufacturer's supplied galvanised clamps, preparation and submission of fabrication drawings, all complete as specified and directed (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.7	MT	1,62,000.00	2,75,400.00
204	**Hand Railing 1000mm**				
205	Supplying, fabricating and fixing in position at all locations 1000mm high INCLINED HAND RAILING (for staircases) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade M.S. Tubes conforming to IS:1239 including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE SPEC. preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	RM	3,600.00	36,000.00
206	Supplying, fabricating and fixing in position at all locations 1000mm high HORIZONTAL HAND RAILING (for platforms, walkways, etc. or any other location as directed) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade MS Tubes conforming to IS:1239 and 100x5 MS Toe Plate confirming to IS:2062 (Grade A/B), including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE standard drawing & specification, preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	3,600.00	36,000.00
207	**CHAIN LINK FENCING**				
208	Supplying, fabricating and fixing G.I. chain link fencing with 3.5mm dia. wire, 50x50mm diamond mesh chain link fence fabric conforming to IS:2721 fixed to steel/RCC posts/struts above ground level, including supply of chain link fencing fabric in 1.9 metre wide rolls, stretcher bars, staples, etc. required for fixing the fencing, fixing of chain link fencing between straining posts, fixing of bottom of fencing in cement concrete 1:2:4 blocks and painting with synthetic enamel etc. , including supply and fixing line wires, complete as per drawings, specifications and directions of Engineer -in-Charge (All materials shall be supplied by Contractor). (The measurement of chain link fencing shall be on linear basis for 1.9 m wide fencing fabric)	10	M	4,500.00	45,000.00
209	**ROADS & FLEXIBLE PAVEMENT (UPTO WBM LAYER)**				
210	Preparation and consolidation of sub-grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth outside the property boundary in the un-disputed areas as directed by Engineer-In-Charge.	2400	M2	612.00	14,68,800.00
211	Supplying and laying of stone aggregate of 63mm down to 45mm size for WBM layer Base Course, tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 75mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding material of plasticity index upto 6%, including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts etc. complete as per drawings, specifications and directions of Engineer-in-Charge	7200	M2	1,170.00	84,24,000.00
212	**CONCRETE PAVEMENTS**				
213	Construction of dry lean cement concrete (DLC) sub base over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in- charge.	240	cum	1,710.00	4,10,400.00
214	Providing and laying Reinforced Cement Concrete with 20mm and down size graded crushed stone aggregates in flooring, pavements etc. including leaving pockets, if necessary, making recess/drains, laying in alternate panels, etc. for all depths including shuttering, tamping, curing, providing dowel bars with sleeves/tie bars etc where ever required at site. as specified in any shape, thickness, position and finishing the top surface smooth etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For RCC of M-30 grade concrete (all materials including cement but excluding cost of providing & fixing reinforcement and joint sealing shall be supplied by the contractor).	600	cum	2,160.00	12,96,000.00
215	Providing 20mm wide Expansion Joints in pavement slabs as per general technical specification including cleaning the joints of all loose material, filling with 20mm thick impregnated fibre boards for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved Joint Sealing Compound as per IS:1834 Type-B etc. all complete as per drawings, specifications and directions of Engineer-in-Charge	1100	M	810.00	8,91,000.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. TOLANI PROJECTS PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
216	Sealing joint around pedestal and column etc. 20mm wide x 150 mm deep including filling with 20mm thick impregnated fire board for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved joint sealing compound as per IS:1834 Type-B.	300	M	810.00	2,43,000.00
217	**RCC PIPE CULVERTS & ELECTRICAL ROAD CROSSINGS ETC. (as per drawing & TE specification)**				
218	Supplying and laying in position RCC pipes with collars conforming to IS:458 for pipe culverts, cable crossings etc. including cutting the pipe if necessary, lowering, laying in position to proper levels, slopes etc. caulking the joints with spun yarn soaked in neat cement slurry and finishing with cement mortar 1:2 (1 cement : 2 sand) curing etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For following Class and Internal PIPE DIA (MM). (Dia (internal) - 500 mm, Pipe Class - NP3)	20	M	5,400.00	1,08,000.00
219	**U/G AND A/G G.I. PIPELINE SYSTEM - WATER SERVICES tender specification**				
220	Supplying and laying mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ ASTM A105 (Galvanized) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, earthwork in excavation for trenches, valve pits, etc. in all types of soil excluding soft and hard rock including laying of pipes in trenches, joining the pipes and fittings with threaded connections, hydrostatic testing of the piping, backfilling the trenches with selected/approved earth fill material, cutting of roads wherever required, making good the road surface after laying, disposal of surplus earth within a lead of 500 m, etc. including supply of necessary fittings etc. complete as per specifications, drawings and directions of Engineer-in-Charge. For following Nom.Size in mm. (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	900.00	9,000.00
221	Supplying and laying above ground mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ASTM A 105 (GALVANISED) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, including laying of pipes on sleeper, walls, including erecting piping on columns, etc. for pump station, overhead tanks, etc. including joining the pipes and fittings with threaded connections, hydrostatic testing of the piping including supply of necessary fittings etc & pipe supports. complete as per specifications, drawings and instructions of Cement Supplied by contractor (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	1,170.00	11,700.00
222	**MISC. CIVIL AND STRUCTURAL WORKS FOR U/G PIPING AND OTHER CIVIL WORKS**				
223	Providing and laying brick masonry with locally available bricks of specified class (Brick of class lower than specified shall not be accepted) in cement mortar 1:4 (1 cement : 4 Coarse sand) in one or more brick thickness and in any shape in foundation and plinth for valve pits, drains, circular/square manholes, wing walls, etc. including providing recesses, openings, etc. including curing, finishing the joints flush below ground level and raking out joints in plinth with all labour and material, etc. complete as per drawings, specifications and direction of Engineering-Charge. For following Brick Class. All materials including cement supplied by the Contractor and. (Brick Class - 5)	418	cum	9,630.00	40,25,340.00
224	Providing 13mm thick average cement plaster in cement mortar 1:3 (1 cement: 3 sand) on brick walls/stone masonry/pitching or on concrete surfaces for manholes, valves pits, culverts, wing walls, etc. including cleaning and preparation of the surface, scaffolding, curing etc. for all depths and heights complete as per drawings specifications and direction of Engineer-in-Charge. All materials including cement supplied by the Contractor.	775	M2	342.00	2,65,050.00
225	**UNDERGROUND SEWER SYSTEM - RCC PIPES**				
226	Supplying and laying underground R.C.C. pipes sewers with socket and spigot ends conforming to IS:458 of approved make, to proper grade and alignment, including earthwork in excavation in all types of soil except soft and hard rock for pipe trenches, etc. including dewatering, shoring and shuttering if necessary, dressing of sides, leveling, grading and ramming of bottoms, cutting the R.C.C. pipes to required lengths, lowering the pipes, jointing, including connecting the pipes to manholes and grouting the pipe body with manhole wall using cement mortar 1:2 (1 cement : 2 sand), testing, draining of water and cleaning of pipe after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness , watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, including cutting of roads wherever required and making good the same, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit etc. complete for all depths as per drawings, specifications and instructions of Engineer-in-Charge.(All material shall be supplied by contractor) For following Pipe size (mm) and Class(The following pipe sizes are all internal diameter of the pipes)				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. TOLANI PROJECTS PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
227	(Dia (Internal) - 100 mm, Piping Material Class - NP2)	15	M	2,520.00	37,800.00
228	(Dia (Internal) - 150 mm, Piping Material Class - NP1)	15	M	2,880.00	43,200.00
229	(Dia (Internal) - 450 mm, Piping Material Class - NP2)	70	M	4,410.00	3,08,700.00
230	**UNDERGROUND SEWER SYSTEM-HDPE PIPES**				
231	UNDERGROUND SEWER SYSTEM-HDPE PIPES :- Supplying and laying HDPE pipes conforming to IS:4984 of approved make to proper grade and alignment, including earthwork in excavation for trenches etc. in all types of soil except soft and hard rock including dewatering till completion of subsequent works, shoring and strutting, if necessary, dressing the sides, leveling, grading and ramming the bottom, jointing the pipes using hot plates as per manufacturer's recommendation, lowering, providing and laying 1:5:10 (1 cement : 5 sand : 10 aggregate) plain cement concrete of minimum 100mm thickness on bottom and side of pipe as directed, connecting the pipes to manholes and grouting the pipes to manhole/valve chamber walls, including supplying and fixing the specials and fittings, such as bends, reducers, tees, elbows, caps etc. conforming to IS:8008 or fabricated from pipes as per specification, supplying and fixing of flanges, fixing of online valves, including fixing of bolts, nuts and gaskets etc. as per specifications, testing, draining of water and cleaning of pipes after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness, watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit, cutting of road wherever required, making good the same etc. complete for all depths as per drawings, specification and instruction of Engineer-in- Charge. For the following nominal diameter (mm) Pressure Rating(Kg/Cm2). (Dia (Internal) - 80 mm, Pressure Rating - 2.5 Kg/sqcm)	50	RM	1,800.00	90,000.00
232	**PLUMBING AND BUILDING DRAINAGE**				
233	Supplying and fixing approved quality Cast Iron soil/waste pipe conforming to IS:1729 below ground with necessary specials, bends such as Y-junction, T- junction (both single and double) including plugs, shoes, cowls, jointing with lead caulked joints and testing, cutting in floors, earth work in excavation, encasing the pipe in 50mm THK, PCC M20, backfilling and removal of surplus earth upto a lead of 50M etc. complete as per drawings, specifications and directions of Engineer-in-Complete				
234	100mm dia (All materials including cement supplied by contractor)	10	RM	2,340.00	23,400.00
235	80mm dia (All materials including cement supplied by contractor)	10	RM	2,160.00	21,600.00
236	Supplying and fixing gun metal globe valve conforming to IS:778, complete as per specifications and directions of Engineer-in-Charge.				
237	Dia - 50 mm	2	Nos	9,000.00	18,000.00
238	Constructing of brick masonry valve chamber in 1:4 Cement mortar(1 cement: 4 sand) with CI frame & cover fixed on M-20 grade cement concrete , necessary excavation, M-20 grade foundation concrete, 13mm thick 1:3 cement plaster on inside & all exposed surfaces, backfilling, removal of surplus earth for all leads within the complex limit etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge. For following Valve size and Brick Class (All materials including Cement supplied by contractor)				
239	Dia - 50 mm, Brick Class - 5)	2	EACH	45,000.00	90,000.00
240	Providing and fixing approved stone ware 100mmx100mm dia. gully trap as per tender specification, including grating with CI frame and cover 300mmx300mm including brick masonry (brick class shall be as mentioned below) chamber in 1:4 cement mortar(1 cement: 4 sand) on M-20 grade cement concrete foundation, plastered inside and outside surfaces with 1:3 cement mortar (1 cement: 3 sand) with 13mm average thickness including providing and fixing light duty CI frame and cover, painting CI frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat, earth work in excavation, backfilling, removal of surplus earth, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry etc. all complete as per drawings, specifications and directions of Engineer-in-Charge				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. TOLANI PROJECTS PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
241	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	13,500.00	27,000.00
242	Construction as per(Design basis & general technical specification) of brick masonry (brick class shall be as mentioned below) inspection chambers/manholes of 750mmx750mm internal size 1000mm deep(Max.) in cement mortar 1:4 (1 cement: 4 sand) with CI frame and cover 500mm clear dia, (circular Medium duty of grade MD-10) conforming to IS:1726 fixed on RCC slab of M-30 grade, necessary excavation, supplying, fixing 4 Nos. 16mm dia M.S. rungs, M-20 grade foundation concrete 1:3 cement mortar(1 cement: 3 sand) plastering of 13mm average thickness for inside & 16mm avg. thickness for outside exposed surfaces, backfilling, disposal of surplus earth upto a lead of 100M, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry, painting the C.I.frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat etc. all complete as per drawings, specifications and directions of Engineer-in-Charge.				
243	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	36,000.00	72,000.00
244	Construction, supplying, installation, testing and commissioning of septic tank as per standards and IS:2470 Part-I , with all necessary accessories like inlet, outlet vent pipes, manhole covers, rungs etc. including earthwork in excavation in all type of soil except soft and hard rock, backfilling and disposal of surplus earth for all leads etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge				
245	All material including cement supplied by contractor for (Users - 10 NOS)	1	Nos	1,71,000.00	1,71,000.00
246	**MISCELLANEOUS ITEMS**				
247	Supplying and fixing in position entrance gate in complex boundary wall fencing manufactured out of steel frame work and square MS bars of 20 mm at 100 c/c and horizontal name plate band at lock rail level suitably hinged with box type steel post embedded in cement concrete i.e. providing the tension bar for smooth operation and locking arrangement etc. complete as per tender specification, including painting with two coats of anti-corrosive paint and two coats of approved aluminium/synthetic enamel paint etc. complete as per drawings, specifications and directions of Engineer-in-Charge.				
248	4.0M clear opening width of gate in two panels.	3	Nos	1,17,000.00	3,51,000.00
249	Supplying & Laying interlocking Paver Blocks for roads, footpaths and any other place etc. including providing 50 mm thick sand filling below Paver Blocks including compaction of sand layer, filling the joints by dry sand, providing precast kerb stone of PCC M-20 at edges, including preparation of compacted sub-grade etc. all complete as per drawing, standard and directions of Engineer-in-Charge. (All material including cement supplied by contractor, paver blocks shall confirm to IS: 15658. cloour and shape of paver block shall be as per owner requirements for following thickness of paver blocks				
250	(Thickness - 60 mm)	385	M2	1,350.00	5,19,750.00
251	Supply and installation on terrace, high density polyethylene drinking water circular tank as per IS:12701 and ISI marked including supply and installation of all fittings, cover with suitable locking arrangement, float valve, making necessary holes for inlet, outlet and overflow connection and vent pipe etc. and the base supports for tank including supply of all necessary material all complete as per specifications and directions of Engineer-in-charge. (Sintex or equivalent having valid ISI license) for following capacities.				
252	capacity - 500 litre	2	Nos	14,400.00	28,800.00
253	Supplying, installation, testing and commissioning of Upflow Anaerobic Filter with bleaching tank as per TE Std. Drawing with all necessary accessories like, Upstream inlet CI piping from septic tank, Downstream outlet RCC NP2 class piping up to surface storm water drains, CI pipes for filter chamber, CI valve, RCC pre-cast pit covers, steps, perforated pre-cast slabs etc., inlet chamber, Filter chamber, deluding chamber including earthwork in excavation in all type of soil including soft rock, backfilling with murrum or approved soil arranged by the contractor, disposal of surplus earth etc. complete as per drawings, specification and direction of Engineering-Charge (All materials including cement shall be supplied by the contractor, Brick Class lower than 5.0 shall not be used). - Upto 10 Nos. user	1	Nos	63,000.00	63,000.00
254	**DEMOLISHING AND DISMANTLING**				
255	**Brickwork**				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
256	Demolishing BRICKWORK (taking all necessary safety precautions) for all depths below plinth level including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	2,700.00	27,000.00
257	Demolishing BRICKWORK (taking all necessary safety precautions) for all heights above plinth level including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	2,700.00	27,000.00
258	**RCC**				
259	Demolishing RCC WORK (taking all necessary safety precautions) for all depths below plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	3,600.00	36,000.00
260	Demolishing RCC WORK (taking all necessary safety precautions) for all heights above plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	3,600.00	36,000.00
261	**PCC**				
262	Demolishing PLAIN CEMENT CONCRETE work (taking all necessary safety precautions) for all depths below plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc. disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation and backfilling shall be paid separately under relevant items)	10	cum	3,330.00	33,300.00
263	**MISCELLANEOUS ITEMS (REFER TE SPECIFICATION)**				
264	Sand Filling				
265	Supplying and filling approved SAND of specified quality under floors, in foundations, plinths, tank foundations etc. for all depths and heights including cost of sand,royalties,transportation to site for all leads and lifts, including loading, unloading, spreading in layers of loose thickness not exceeding 150 mm,watering,ramming,compacting with mechanical compactors and/or other equipment to the specified levels to achieve 85% relative density as per IS:2720 Part XIV,including preparation of subgrade to the required slope, providing testing apparatus and testing the degree of consolidation all complete as per drawings, specifications and direction of Engineer-in-charge. The rates shall be inclusive of the cost of all labour,material,equipments etc. all complete .	120	cum	1,260.00	1,51,200.00
266	**SAND GRAVEL MIX**				
267	Supplying and filling sand gravel mix (1:1) with approved aggregate below road, RCC pavement, manholes, pits, foundations, bedding of UG piping etc. in layers of 150 mm loose thickness (maximum) including watering, ramming, rolling, compacting to achieve 85% relative density as per IS 2720 Part-XIV, quarrying, royalties, transportation, handling, etc. all complete as per drawings, specifications and directions of Engineer-in- Charge. (The rate shall be inclusive of the cost of all labour, material, equipment etc. all complete)	122	cum	1,710.00	2,08,620.00
268	**GROUTING WITH NON-SHRINKABLE COMPOUND**				
269	Providing and laying manually or by pumping at all positions a ready mix non-shrink cementitious grout of compressive strength specified below for specified works e.g. pipe support, base grouting of rotating equipment and other installation complete in all respects as per scope of work, detailed construction drawings , technical specifications and directions of the Engineer-In-Charge.				
270	Having compressive strength of 30 N/mm2 , Per bag of 25 Kg	100	Bags	1,170.00	1,17,000.00
271	Having compressive strength 45 N/mm2 , Per bag of 25 Kg	20	Bags	1,440.00	28,800.00

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272	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains, SS trench of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.	10	SQM	1,800.00	18,000.00
273	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, leve and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	17	M3	11,700.00	1,98,900.00
274	Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M-25, of size 1000x450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos. cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of the Engineer-In-Charge.	630	EACH	540.00	3,40,200.00
275	**Borewell and recharge well**				
276	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job all complete as per drawing, direction of Engineer -in-charge, in all types of soil :	130	M	2,700.00	3,51,000.00
277	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge.	130	M	1,170.00	1,52,100.00
278	Providing and fixing Bail plug/ Bottom plug of required diameter to the bottom of pipe assembly of tubewell as per IS:2800 (Part-I). :150mm dia	3	EACH	2,700.00	8,100.00
279	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	2,700.00	13,500.00
280	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	2,340.00	11,700.00
281	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	1,800.00	9,000.00
282	Gravel packing in tubewell construction in accordance with IS:4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of the Engineer-In-Charge.	3	M3	1,800.00	5,400.00
283	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS:4270, of reputed & approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size dia having minimum wall thickness 5.00 mm	5	M	4,500.00	22,500.00
284	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	60	M	1,170.00	70,200.00
285	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/ 3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS:8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	25	M	4,500.00	1,12,500.00
286	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of 150 mm diameter	1	Nos	2,700.00	2,700.00
287	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS:2800 (Part-I), including necessary bolts & nuts of required size complete 150 mm diameter.	1	Nos	1,800.00	1,800.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. TOLANI PROJECTS PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
288	Supply, Installation and commissioning of 1.5HP Borwell Submersible Pump	1	EACH	36,000.00	36,000.00
289	Supply and Installation of 3Cx10Sqmm Copper Flat Cable	200	M	900.00	1,80,000.00
290	**LANDSCAPING**				
291	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment).	810	M3	405.00	3,28,050.00
292	Fine dressing of the ground.	2700	M2	27.00	72,900.00
293	Providing & laying Selection no. 1 grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden and than rolling the surface with light roller make the surface smoothen and light watering the same maintenance for 30 days or more till the grass establish properly,as per direction of officer in charge	2700	M2	252.00	6,80,400.00
294	Conducting topographical ground/land survey in the specified area as shown in the tender drawings by conventional/GPS or any other standard method, covering details of physical features like Rivers, Nallahs, Lakes, Ponds, wells, pits, Forest, Trees, Roads, culverts, transmission lines, telegraph/ telephone and electric poles, underground or any other services, cross drainage works including cross sectional details of nallah etc. including establishing high flood level with source of information, identification of any monument, historical structure, wild life sanctuary in the vicinity, storm water disposal point with levels, cross-section details of nallah, recording spot levels, top level of nearest state highway or National Highway, including providing in tabulation girth wise no. of trees etc as specified, plotting and developing topographical contour maps, showing true north including establishing survey reference stations, key plan etc. including all equipment's, instruments, personnel's, clearing of bushes as per requirement for intervisibility to carry out survey work etc. , complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of drawings/map and supply of electronic files. Note: Survey work shall be carried out by survey agency approved by Contractor and sample spot witness of levels cordinates by PMC, and shall be submitted to PMC/Owner for review.Survey drawing will be provided in A0 size with clear visibility of all the spots/levels/ contoure and Bench marks. Permanaet bench mark will be stabished at site in a 450x450 mm size 600mm high bick masonry piller.	6950	M2	45.00	3,12,750.00
295	**GEO TECHNICAL INVESTIGATION (Z/02/0022)**				
296	Conducting soil investigation with boring including all field tests and laboratory tests, mobilization and demobilization of equipments & personnel etc. for soil investigation for each borehole location. complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of Reports & recommendations and supply of electronic files.	5	Nos	6,300.00	31,500.00
297	**ANTI-TERMITE TREATMENT**				
298	Supplying chemical emulsion in sealed containers including delivery as specified in the Technical Specifications.				
299	**Chlorpyriphos/ Lindane emulsifiable concentrate of 20%**	200	LITRE	810.00	1,62,000.00
300	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
301	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc. as per Techinal specifications and direction of engineering in charge: With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	80	METRE	630.00	50,400.00
302	Treatment of soil under floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the floor:				
303	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	250	SQM	360.00	90,000.00
304	Supply and installation 60mm dia GI pipe for column support of gate	15	M	2,700.00	40,500.00
305	Supply and installation 100mm dia MS pipe	15	M	3,060.00	)00.00

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306	Supply and installation 50mm dia MS pipe	15	M	1,800.00	27,000.00
307	Supply and installation of U-PVC pipes (working pressure 4 kg / cm²) Single socketed pipe 75 mm dia for weep holes	300	M	144.00	43,200.00
308	**Sub-Total Section C**				**7,29,37,980.00**
309	**SECTION-D [CATHODIC PROTECTION WORKS]**				
310	**Cathodic Protection system**				
311	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning & Monitoring of the temporary cathodic protection [TCP] system using galvanic anodes to protect the external surface of the pipeline against soil-side corrosion for minimum 2 year or till commissioning of permanent CP system whichever is later . All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard drawings and vendor list as attached with this tender and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	41,40,000.00	41,40,000.00
312	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning of permanent cathodic protection system for 40 years. The scope of work also includes post commssoning surveys and repair of coating/ rectification of cathodic protection system based on the post commissioning surveys. In additon to the same, AC Interference study on the pipelines to be performed and mitigation measures takes to the satisfaction of Owner/ CONSULTANT. All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard and vendor list attached and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	54,27,000.00	54,27,000.00
313	**Sub-Total Section D**				**95,67,000.00**
314	**SECTION-E [ELECTRICAL WORKS]**				
315	**ELECTRICAL**				
316	**SWITCH BOARDS / UPS SYSTEM/ PANEL**				
317	Supply , Installation, testing and commissioning of LT Switch-boards, AC UPS system with UPS Distribution board & Ni-Cd Battery banks , distribution boards, cubicles with electrical equipment, misc. electrical panels etc., including transportation from store/yard to site at the place of installation, unpacking, assembly, including mounting and wiring of loose parts supplied by equipment vendor, interconnection of shipping sections and requisite inter-panel wiring between shipping sections, including supply of all wiring materials, installation on foundations or fixing to wall or steel structures, aligning, levelling, grouting, including all labour and materials, as per approved drawings, specifications of this tender and directions of Engineer-in-Charge.				
318	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted MEDB	2	Nos	6,37,200.00	12,74,400.00
319	Supply , erection , termination , earthing and commissioning of wall mounted OLDB as per single line diagram of DT stations	1	Nos	1,62,000.00	1,62,000.00
320	Supply , erection , termination , earthing and commissioning of wall mounted ILDB as per Single line diagram of DT stations	1	Nos	1,62,000.00	1,62,000.00
321	Supply , erection , termination, earthing and commissioning of wall mounted SSDB as per Single line diagram of DT stations	1	Nos	2,52,000.00	2,52,000.00
322	Supply , erection , termination , earthing and commissioning of wall mounted AC DB as per Single line diagram of DT stations	1	Nos	1,44,000.00	1,44,000.00
323	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 6 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of DT stations	1	SET	27,00,000.00	27,00,000.00
324	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for DT stations.	1	SET	63,00,000.00	63,00,000.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

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325	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 1 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of RT stations	1	SET	9,00,000.00	9,00,000.00
326	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for RT stations.	1	SET	18,00,000.00	18,00,000.00
327	Supply , erection , and commissioning of 415 V SFU as per Single line diagram of DT stations including liasioning with SEB as per Tender specification and direction of Engineer- In charge.	1	Nos	2,02,500.00	2,02,500.00
328	**POWER AND CONTROL CABLE**				
329	Supply , laying , termination , erection and testing of 1.1 KV Power and control FRLS PVC Outersheath, XLPE insulated, armored Cables . Outdoor cable will be laid in buried cable trench and in Indoor cable will be laid in Cable trench by provision of Cable tray and supports inside the trench as per PTS - Electrical package P.017110 G 11077 E002				
330	3.5C x 95 sqmm AL FRLS XLPE	300	M	900.00	2,70,000.00
331	3.5C x 70 sqmm AL FRLS XLPE	100	M	810.00	81,000.00
332	3.5C x 50 sqmm AL FRLS XLPE	50	M	720.00	36,000.00
333	3.5C x 25 sqmm AL FRLS XLPE	100	M	**540.00**	54,000.00
334	4C x 16 sqmm CU FRLS XLPE	100	M	810.00	81,000.00
335	3C x 2.5 sqmm CU FRLS XLPE	170	M	360.00	61,200.00
336	3C x 6 sqmm CU FRLS XLPE	250	M	540.00	1,35,000.00
337	4C x 6 sqmm CU FRLS XLPE	350	M	594.00	2,07,900.00
338	2C x 6 sq.mm CU FRLS XLPE	100	M	522.00	52,200.00
339	2.5 sqmm Cu. Wire	1800	M	90.00	1,62,000.00
340	6 sqmm Cu. Wire	600	M	144.00	86,400.00
341	**Earthing & Lightning**				
342	Supply , Installation , testing and comissioning of GI Earth electrodes & Cu plate type earth pit complete with earth pit as per IS 3043, PTS-Electrical package and all necessary material including exacavation of earth pit , filling with charcol and salt , back filling, brick work , connections including all labour and materials as approved drawing and specification of this tender and direction of Engineer-In charge.				
343	**GI Earth Electrodes**				
344	65mm dia x 3000 mm L GI pipe electrode type Earth pit	15	Nos	20,250.00	3,03,750.00
345	**Cu plate Earth Electrode**				

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346	600x600x3mm Cu plate type Earth pit	8	Nos	22,500.00	1,80,000.00
347	**Earth strip and wire**				
348	50x 6 mm GI Flat strip	850	M	315.00	2,67,750.00
349	25 x 6 mm Cu Flat strip	50	M	900.00	45,000.00
350	2.5 Sqmm Cu wire	250	M	90.00	22,500.00
351	25 x 6 mm GI Flat strip	200	M	270.00	54,000.00
352	10 Sq.mm earthing cable	250	M	270.00	67,500.00
353	GI Earth Bus 50x 6 Sq.mm with all installation assesories	3	Nos	2,250.00	6,750.00
354	Cu. Earth Bus 50x 6 Sq.mm with all installation assesories (in control room)	4	Nos	4,410.00	17,640.00
355	25x3 mm GI Flat for Lightning as well as down conductors for DT station as per overall earthing layout and GGNG-E-20713-3007	80	M	225.00	18,000.00
356	Other lightning assesories like 20mm dia copper rod, hollosphere ,200x200x6mm ms plate ,anchor/fastner ,test links for DT station as per overall earthing layout and GGNG-E-20713-3007	1	LOT	1,71,000.00	1,71,000.00
357	**OUTDOOR Lighting**				
358	Supply , erection , Testing & commissioning of Outdoor area lighting system including with supply of flameproof / weather proof light fixture , pole , junction box and earthing including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender & Overall outdoor lighting layout of DT & RT station and directions of Engineer- In charge.				
359	100W FLP LED Fixture & FLP Junction box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	4	Nos	45,000.00	1,80,000.00
360	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	2	Nos	1,26,000.00	2,52,000.00
361	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in RT Stations.	7	Nos	1,26,000.00	8,82,000.00
362	1x160W FLOOD LED Fixture with weather proof junction box & 9 mtr high pole with all assesories for open area	9	Nos	63,000.00	5,67,000.00
363	1x70 W Solar type Street LED Fixture with weather proof junction box, VRLA Battery (72 hrs backup time) & 9 mtr high pole for street lighting	6	Nos	1,10,700.00	6,64,200.00
364	1x27 W Post Top Lantran LED Fixture for Gate with weather proof junction box for Gate lamp	2	Nos	16,200.00	32,400.00
365	1x36 W LED industrial fixture suitable to building parapet /wall with all assesories like weather proof junction box/clamp/reducer/	2	Nos	22,500.00	45,000.00
366	**INDOOR Lighting**				
367	Supply, erection, Testing & commissioning of Indoor building area lighting system including with supply of light fixture, point wiring including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender and directions of Engineer- In charge.				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
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368	2x20 W LED recessed decorative fixture for control room	5	Nos	9,000.00	45,000.00
369	2x20W LED Industrial Fixture for Electrical room	2	Nos	9,000.00	18,000.00
370	1x40W LED Flameproof Fixture for Battery room	1	Nos	21,600.00	21,600.00
371	2x18W LED Industrial Fixture for Varanda/Toilet/ water cooler area/ Guard room	6	Nos	8,100.00	48,600.00
372	1x36W LED Industrial Fixture	4	Nos	14,400.00	57,600.00
373	2x20 W LED recessed decorative fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) control room.	2	Nos	22,500.00	45,000.00
374	2x20W LED Industrial Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Electrical room	2	Nos	22,500.00	45,000.00
375	1x40W LED Flameproof Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Battery room	1	Nos	25,200.00	25,200.00
376	**Switch socket**				
377	Supply and Installation of single/ three phase Switch socket as per Indoor Illumination layout for DT & RT and PTS-Electrical Package and directions of Engineer-In Charge				
378	5/15A surface type switch socket (1 Ph)	7	Nos	630.00	4,410.00
379	5A flush type switch socket (1 Ph)	4	Nos	720.00	2,880.00
380	16A Switch socket (I Ph)	3	Nos	1,440.00	4,320.00
381	20A Switch socket for AC (1 Ph)	4	Nos	1,800.00	7,200.00
382	Flame proof Junction box for Exhaust fan in Battery room	2	Nos	18,000.00	36,000.00
383	32A Switch socket for welding receptacles (3 Ph)	1	Nos	14,400.00	14,400.00
384	Modular switch board	12	Nos	1,350.00	16,200.00
385	**FANS and Exhaust FAN**				
386	Supply ,Installation and testing of Ceiling Fan and Exhaust fan with louvers including all labours and materials as per Indoor Illumination layout for DT and PTS-Electrical Package and directions of Engineer-In Charge				
387	Ceiling Fan 230V AC 1200 mm sweep	3	Nos	8,100.00	24,300.00
388	450 mm FLP Exhaust Fan for Battery room	2	Nos	27,000.00	54,000.00
389	200 mm Exhaust Fan for Toilet	1	Nos	7,200.00	7,200.00

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390	300 mm Exhaust Fan for Electrical room/ CO2 room	3	Nos	9,000.00	27,000.00
391	**Air conditioning unit**				
392	Supply ,Installation and testing of Five star 1.5 Ton Split AC with outdoor compressor unit including all labours and materials as per Typical Indoor Illumination layout for DT and directions of Engineer-In Charge				
393	Split Air condition Five star 1.5 Ton	4	Nos	1,08,000.00	4,32,000.00
394	**Hardware and other Accessories**				
395	Supply and Installation of Hardware and other accessories including all labours and materials as per Tender specification PTS-Electrical Package P.017110 G 11077 E002 and directions of Engineer-In Charge				
396	Rubber mat	15	M	2,700.00	40,500.00
397	Rubber hand gloves	1	PAIR	3,600.00	3,600.00
398	Warning Marker	1	Nos	4,500.00	4,500.00
399	PVC Conduit with bend ,tee and other required assesories	1	LOT	99,000.00	99,000.00
400	CAUTION Board & Sock treatment chart	1	Nos	2,700.00	2,700.00
401	Cable route marker as per Standard drawing TE-IN-STD-G-0327	1	LS	72,000.00	72,000.00
402	Fire extingusher and SAND Bucket with Stand	1	SET	18,000.00	18,000.00
403	Ladder type Cable tray - hot dip Galvanized Prefabricated 450 mm wide	55	MTR	2,160.00	1,18,800.00
404	Perforated type Cable tray hot dip Galvanized Prefabricated 450 mm wide	35	MTR.	2,520.00	88,200.00
405	**Cable Glands**				
406	Cable Glands : Flame proof IIA/IIB double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
407	Cables with upto OD 20 mm & above OD 20 mm as per Single line diagram of DT & RT station	1	LOT	54,000.00	54,000.00
408	Cable Glands : Weather proof double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
409	Cables with upto OD 20 mm to 40 mm as per Single line diagram of DT & RT station	1	LOT	81,000.00	81,000.00
410	**Sub-Total Section E**				**2,04,18,300.00**
411	**SECTION-F [INSTRUMENTATION WORKS]**				

Prepared Checked Approved

TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. TOLANI PROJECTS PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
412	**INSTRUMENTATION**				
413	**SUPPLY**				
414	Supply of Pressure Transmitter along with 2 valve manifolds with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	59,400.00	2,97,000.00
415	Supply of Pressure gauge including high range along with 2 valve manifolds with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	18	Nos	25,200.00	4,53,600.00
416	Supply of Pressure gauge including Low Range along with 2 valve manifolds, gauge saver with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	3	Nos	25,200.00	75,600.00
417	Supply of temperature element (RTD) along with flanged thermowell mounted for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	29,700.00	1,48,500.00
418	Supply of Temperature Transmitter with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	7	Nos	51,300.00	3,59,100.00
419	Supply of skin type temperature element (RTD) for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I003), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	2	Nos	25,200.00	50,400.00
420	Supply of Local control panel with all accessories as per Data sheet (P.017110 G 11087 I011), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, SAT of local control panel,supports/ frame fabrication, earthing and screwing plug for unused entries, painting and integration with RTU. Termination of all Other panel SCADA hard wired signal including RS-485 signals through LCP for RTU/SCADA by Bidder. 1. Digital Barriers 2. Analog Barries 3. Relays 4. three poisition selector switch 5. LED indication lamps 6. Push buttons 7. terminal blocks 8. internal wiring 9. MCBs 10. Door switches 11. cooling Fan 12. LED lights	2	Nos	13,50,000.00	27,00,000.00
421	Supply of Ex-proof junction box with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, iincluding Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.	4	Nos	23,400.00	93,600.00
422	Supply of Corrosion Monitoring system with corrosion coupon, Corrosion probe, transmitter and digital indicator (mounted in LCP) as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. TOLANI PROJECTS PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
423	Corrosion coupon along with accessories.	2	Nos	4,95,000.00	9,90,000.00
424	Corrosion probe along with transmitter, digital indicator, barriers and accessories.	2	Nos	11,07,000.00	22,14,000.00
425	Supply of Conventional Type Microprocessor based fire detection system along with smoke detector, heat detector, cabinet, manual call point, Independent 24 Hrs battery backup with 15 min in alarm state, repeater panel and Electrical Operated Siren, exit signs and cables fromsensor ,MCP, siren, hooter to controller as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
426	Controller along with cabinet along with cabling	1	Nos	2,07,000.00	2,07,000.00
427	Multisensor (smoke & heat)	10	Nos	6,300.00	63,000.00
428	WP IP 65 Manual call points	6	Nos	6,030.00	36,180.00
429	Ex Proof and WP IP 65 Manual call point	1	Nos	21,600.00	21,600.00
430	WP Hooter & Flasher	1	Nos	33,300.00	33,300.00
431	Repeater panel	1	Nos	1,08,000.00	1,08,000.00
432	Exist sign	6	Nos	18,000.00	1,08,000.00
433	Electrical siren Exd	1	Nos	63,000.00	63,000.00
434	24 Hrs battery backup	1	Nos	9,900.00	9,900.00
435	Supply of Conventional type gas detection system along with controller, ex proof point gas detectors, beacon hooter, flasher, , cabinet, portable gas detector, calibration kit, alignment kit as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
436	Controller with cabinet	1	Nos	4,50,000.00	4,50,000.00
437	Point gas detectors	12	Nos	1,62,000.00	19,44,000.00
438	Panel Mounted hooter	2	Nos	54,000.00	1,08,000.00
439	Dual tone Hooter & Beacon Ex"d" with reset push button	2	Nos	27,000.00	54,000.00
440	Portable gas detecotrs	1	Nos	81,000.00	81,000.00
441	Calibration kit	1	Nos	72,000.00	72,000.00
442	Ex d Junction Box	2	Nos	27,000.00	54,000.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. TOLANI PROJECTS PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
443	Supply of Universal type Hand Held Configurators for transmitters with carrying case, rechargeable batteries (one working and one standby), and battery charger as per Data sheet,PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work	1	Nos	4,41,000.00	4,41,000.00
444	Supply of Instrumentation signal cable, control cable, communication cable/LAN cable, Power cables along with all sizes cable glands (WP & Exd), PVC hood, lug, ferrule, etc including Cable laying (buried as well as tray) along with termination, glanding, meggering and loop checking including supply of ferrule, lugs, cable tie, cable clamp, cable marker etc. as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.				
445	1Px 1.5mm2	500	MTRS	243.00	1,21,500.00
446	12Px 0.5mm2	900	MTRS	810.00	7,29,000.00
447	1Qx1.5mm2	30	MTRS	270.00	8,100.00
448	12Tx1.5mm2	200	MTRS	810.00	1,62,000.00
449	1Tx1.5mm2	180	MTRS	324.00	58,320.00
450	6Px0.5mm2	200	MTRS	405.00	81,000.00
451	2Px1.5mm2	200	MTRS	297.00	59,400.00
452	Cat 5 (LAN)	160	MTRS	189.00	30,240.00
453	3C x 2.5mm2	240	MTRS	486.00	1,16,640.00
454	Supply & laying of Instruments cable tray with tray cover (Branch Cable tray (50mm x 50mm), Main cable tray 900 mm, cable tray 300mm, cable tray 150 mm.) as per requirement, instruments/ PGD, CCTV/ mounting poles, instrument protection sun sheds, angles, channels, MS plates & all the erection materials and as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including installation of support, cable clamping, installation of tray cover and support painting.	1	LS	2,97,000.00	2,97,000.00
455	Supply , installation & laying of tubes and fittings as per requirement and as per PTS-Instrumentation with appendices and Scope of Work C&I. SS 316L TEE (1/2", Class 3000#, Screwed, NPTF, Seamless) ,SS316L GLOBE/BALL VALVE (1/2", Class 800#, Screwed, NPTF, Seamless), SS316L PLUG (1/2", Screwed, NPTM, Hex head, class 3000#), SS316L PIPE NIPPLE (½" NPTM, seamless, schedule #160) Length of the pipe nipple as per requirement, SS316L MALE CONNECTOR (1/2" OD x 1/2" NPTM), SS316L FEMALE CONNECTOR (1/2"OD x 1/2" NPTF), SS316L UNION (1/2" OD), SS316L TUBE (1/2" OD x 0.065" WT), SS316L TUBE (1/4" OD x 0.035" WT)	1	LS	9,27,000.00	9,27,000.00
456	Supply of mandatory spares as per Mandatory Spare **(P.017110 G 11075 I001)**	1	LS	1,80,000.00	1,80,000.00
457	**AT Bokaro** Installation of metering skids, metering cabinet under the supervision of skid supplier, cable laying and terminal of cable from skid junction box to metering system cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	2,97,000.00	2,97,000.00
458	**AT Bokaro** Installation of gas chromatograph skid, analyser & controller cabinet under the supervision of skid supplier, cable laying and terminal of cable from analyser cabinet to controller cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	2,97,000.00	2,97,000.00
459	**AT Bokaro** Installation of H2S & Moisture analyser skids, cabinet under the supervision of skid supplier, laying and terminal of cable from skid field mounted cabinet to LCP/RTU. Including supply of all the required erection, fabrication and civil materials.	1	LS	2,97,000.00	2,97,000.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. TOLANI PROJECTS PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
460	**Sub-Total Section F**				**1,48,96,980.00**
461	**SECTION-G [TELECOM WORKS]**				
462	**AT SV 01** Supply of Input out puts cards in existing Remote Terminal unit along with internal wiring at site and configruation of new parameters in existing RTU as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, Installation of Input out puts cards in existing Remote Terminal unit along with internal wiring at site, interfacing with LCP and configuration of new parameters in existing RTU, as per Scope of Work at SV 01				
463	32 channels digital input cards	1	Nos	1,62,000.00	1,62,000.00
464	16 Channel digital output cards	1	Nos	99,000.00	99,000.00
465	12 channel Analog input cards	1	Nos	81,000.00	81,000.00
466	Supply Telecommunication system, SDH equipment STM-4 Based SDH Cabinet of (2000H x 800W x 800W along with 100 mm base frame) as per below configuration: - 2*STM-4 + 2*STM-1 + 8FE ports as per PTS-Telecommunication system (P.017110 G 11077 I002), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including erection, testing, integration with existing NMS at Noida, Commissioning and integration with existing telecom system at SV 01 additional SFP of L4.2 for SV 01 connectivity	1	Nos	11,70,000.00	11,70,000.00
467	Supply of CCTV-IP based Fixed colour camera and PTZ colour camera along with power cable, communication cable at each station as per PTS-Telecommunication system (P.017110 G 11077 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work., including erection, testing, integration with existing VMS at Noida, Commissioning and integration with existing telecom system at SV 01				
468	Fixed Camera WP IP65	1	Nos	36,000.00	36,000.00
469	PTZ camera WP IP65	1	Nos	81,000.00	81,000.00
470	Supply of one Analog phones control room, one number in guard room and one number WP IP66 in field safe area as per PTS-Telecommunication system (P.017110 G 11077 I002) , PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work				
471	Analog Phone	2	Nos	2,700.00	5,400.00
472	Analog Phone Ex Proof WP IP 65	1	Nos	9,000.00	9,000.00
473	FXO cards	1	Nos	6,300.00	6,300.00
474	FXS	1	Nos	6,300.00	6,300.00
475	Five pair armoured telephone cable, size 0.5mm2	100	MTR	72.00	7,200.00
476	**AT Bokaro** Free issue RTU by GAIL: Transportation from Gail store to site location, installation, cabling from LCP to RTU, commissioning etc. Erection, installation of RTU inside the station control room including supply of all the required erection materials, fabrication and civil works	1	LS	5,04,000.00	5,04,000.00
477	**Sub-Total Section G**				**21,67,200.00**
478	Total of Section A + B + C + D + E + F + G				**26,39,92,566.00**

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. TOLANI PROJECTS PVT. LTD.

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479	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Total of Section A + B + C + D + E + F + G above	18	percentage		4,75,18,661.88
480	Rate of Extended Stay Compensation per month beyond the time schedule and grace period mentioned in Bidding document for reasons solely attribute to Owner (exclusive of GST) Notes:- 1;- Extended Stay Compensation shall be loaded on the quoted price as per evaluation methodology. 2;- In case, no rate for extended stay compensation is stipulated, it will be considered that extended stay compensation is not required by the Bidder and the rates quoted by them shall be valid till completion of works in all respects.	1	Nos		11,70,000.00
481	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Extended Stay Compensation at Sl. No. 480 above	18	percentage		2,10,600.00
	Grand Total				31,28,91,827.88

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. VICHITRA CONSTRUCTIONS PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
				UNIT RATE	TOTAL RATE
1	**SECTION-A (MAIN LINE WORKS)**				
2	**CH.0.00 KM to CH.23.436 KM**				
3	**MAINLINE, PIPING AND MECHNICAL**				
4	**PIPELINE LAYING / INSTALLATION** Laying/ installation of coated line pipe, associated fittings and accessories, etc. as per specifications, drawings, other provisions of Contract and instructions of Engineer-in-Charge, including but not limited to carrying out the following: "Receiving and taking-over", handling, loading, transportation and unloading of Owner supplied coated and bare line pipes and other Free Issue Materials from Contractor's own stock-yard to Work site including stringing on the pipeline Right-of-Use (ROU), Arrangement of all additional land required for Contractor's storage, Performing the additional survey wherein survey data is not sufficient in the opinion of Contractor, arrangement of working RoU if RoU width is not sufficient for equipment/ vehicle movement etc., access for construction (other than Owner provided ROU; Developing necessary access way to the worksite, including earth filling, levelling, etc.; supply of all materials (except Owner supplied materials), supply of all materials, consumables, equipment, labour, etc.; fabrication, Staking and installation of construction markers, clearing, grubbing, grading (as required) of Right of Use; clearing and grading of ROU; Cutting/ uprooting of shrubs, plants, vegetation within ROU; , Trenching to all depths and to a width to accommodate the pipeline with optical fiber cable (inside HDPE Duct) by excavation in all types of soil (in case of hard rock, additional payment for hard rock breaking will be paid as per separate SOR line item), including additional trenching for seismic and other areas as specified,(Rate for laying of optical fibre cable and HDPE Duct not be included here and same to be quoted against separate SOR item); Carrying out repairs of pipe and coating defects not attributable to Owner; Thorough internal cleaning of all pipes by suitable methods to remove debris, shots, grits etc.; Stringing of line pipes along ROU including providing straw bags, soft padding/sand padding; Aligning, cold field bending, cutting and beveling (as required) of pipes for welding and field adjustments, NDT & NDT of re-beveled area, welding, carrying out destructive & non- destructive testing of welds required as per approved NDT specifications (including radiography) and providing all requisite equipment, labour, supervision, materials, films, consumables etc.; carrying out repairs of weld joints as required, carrying out re- radiography and other non-destructive tests on repaired joints, etc.; Installation of carrier pipe including concrete coated pipes (wherever required),				
5	(Concrete Coating on pipes, covered separately) at all crossings including roads/ canals/ nala/ water crossings etc. (supply and installation of casing pipe by open cut or by Jacking/ boaring method covered separately) including pre-testing as required; Carrying out installation of carrier pipe in the casing pipe at cased crossings; Coating of all field weld joints, long radius bends (fabrication of Cold field bends covered here and fabrication of 6D bends by induction heating covered separately), buried fittings etc.; Supply & Installation of warning tape along the entire length of Pipeline including Crossing. Lowering the pipelines in trench, providing required padding over and around the pipeline with sand/graded material (in rocky areas), backfilling with available approved excavated material and/or other suitable soil (supply and providing of soft soil for pre & post padding in Rocky area); Supply and installation of slope breaker as per specifications and drawings in steep slope areas, wherever required; Carrying out hydrostatic testing including air cleaning, flushing, filling, gauging, pressurization of complete pipeline in various test sections as approved by Engineer-In-Charge to the specified test pressure, providing all equipment, pumps, fittings, instruments, dead weight tester, all types of pigs etc., and services, supervision, labour, consumables, arranging water required for hydrostatic testing including supply of corrosion inhibitor, air, etc. as required, locating of leaks and rectification of defects attributable to Contractor, re-testing after rectification, successful completion of hydro-testing of pipeline (De-watering covered else where in the SOR); including all tie-in(s) with the pipeline/ piping installed by others including cutting of test header, re- beveling as required; Carrying out all temporary, ancillary, auxiliary works and all incidental works required to make the pipeline ready for pre- commissioning; Carrying out EGP for the entire stretch of completed pipeline, Repair of defects recorded during EGP/gauge plate run or otherwise including cutting, beveling, welding, NDT, field joint coating etc.; as applicable, Final clean-up and restoration of right of use including obtaining NOC from respective statutory authorities as required and disposal of debris and returning all surplus material to designated disposal areas/storage yard, as directed by Engineer-In-Charge; Restoration of land, facilities and boundary wall etc. at associated facilities dismantled/damaged by the Contractor during construction; Obtaining work permits/ NOC from various statutory authorities having jurisdiction and complying with all stipulation/conditions/recommendation of the said authorities; Preparation of as-built drawings, pipe-book and other records. SOR shall be read in conjunction with Project drawings, scope of work, specifications, standards and other provisions of contract document. The work includes the Survey data & site preparation, Stringing/Chainges in direction, Beveling of pipe element, Welding Procedure Qualification & Welders Qualification, Welding of pipe element, Inspection & testing of production welds, Field joint coating, controlled blasting, chiseling, etc., Material hand over & material handling, Lowering-in & ballasting, All crossings except HDD as mentioned in Crossing List (including installation of carrier pipe inside the Casing at cased crossing) , Backfilling (for all depths in all types of soil, soft /hard rock) , including trench padding with sand, graded earth in rocky areas & rock shield(if required as per specs) reinstatement (restoration) and preparation of As-built Alignment & Crossing drawings.				

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M/s. VICHITRA CONSTRUCTIONS PVT. LTD.

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6	All above works shall be executed in accordance with scope of work, GTS, PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. 1. Supply and Installation of OFC and HDPE Ducts along the entire pipeline route, adjacent to the new pipeline, along with all required accessories, fittings and associated items, is covered separately in the SOR. All above works for buried pipeline (including hook-up pipeline from Tap Off Point inside ONGC GCS, Bokaro upto proposed plot for GAIL DT), as per following details :				
7	ND12", API5L X70 - 6.4 mm	6500	M	3,000.00	1,95,00,000.00
8	ND12", API5L X70 - 7.1 mm	15850	M	3,100.00	4,91,35,000.00
9	ND12", API5L X70 - 8.7 mm	150	M	3,200.00	4,80,000.00
10	**Concrete slabs (Mechanical Protection) as per technical specifications** Supply, fabrication and installation of reinforced concrete weights. Reinforced steel size should be 8 mm. top and bottom at a rate of 200 mm c/c of precasted RCC 1:2:4 on pipeline of wall thickness of 75 mm thick and size as per specifications & Standard drawings and instructions of Owner/ Owner's representative including supply of consumables, materials, equipment, labor, supervision, all associated civil works.	382	M	1,500.00	5,73,000.00
11	**Continuous Concrete Coating** Supply of all consumables and materials, equipments, manpower, submission of application procedure with calculations for anti-buoyancy, design mix procedure qualification and application of continuous concrete weight coating thickness mentioned below (higher also, in case design requirements) on pipeline of all thickness, concrete weight coating of the field joints thereof, and performing all works as per specifications and instructions of Owner/Owner's representative and other provisions of CONTRACT DOCUMENT.				
12	35 mm thick	12	M	2,000.00	24,000.00
13	50 mm thick	12	M	3,000.00	36,000.00
14	**GEO TEXTILE BAGS FOR ANTI-BUOYANCY**				
15	Additional works over and above item no. 4 to 9 for design, manufacture and supply of Non-biodegradable geo-textile bags and installation of geo-textile bags duly filled with gravel/ stone ballast on pipelines of all wall thicknesses for anti-buoyancy, drawings, scope of work and instructions of Engineer-in-Charge and other provisions of the Contract document. Note: This item shall be applicable for Some crossings as per instructions of Engineer-incharge.				
16	ND12" (for all thicknesses)	12	M	3,000.00	36,000.00
17	**Permanent Markers** Supply, fabrication and installation of following types of permanent markers along the pipeline route including all associated civil works such as excavation in all types of soil, construction of pedestals and grouting with concrete, clearing, supply & application of approved color and quality of primer and paint, stencil letter cutting for numbers, direction, chainage, etc. restoration of area to original condition and performing all works as per drawings, specifications and instruction of Owner/Owner's Representative.				
18	Pipeline Warning Signs	35	Nos	5,500.00	1,92,500.00
19	Right-of-way boundary markers	94	Nos	1,200.00	1,12,800.00
20	Kilometer Markers	19	Nos	5,500.00	1,04,500.00
21	Aerial Markers	4	Nos	5,500.00	22,000.00
22	Navigable Waterway Markers	8	Nos	5,500.00	44,000.00
23	Directional Markers	297	Nos	5,500.00	16,33,500.00
	Repair of Defects in Pipe Coating (Attributable to OWNER)				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. VICHITRA CONSTRUCTIONS PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
25	**Repair of Line Pipe Coating:** Supply of all coating repair materials as per the requirements of the relevant specifications, supply of all consumables, utilities, equipment, and all manpower required, pipe cleaning and surface preparation, repairing of coating defects (resulting in holiday in coating) and testing including all handling, transportation, etc. for line pipes, performing all works necessary for the completion of the works strictly in accordance with the relevant specifications and instructions of OWNER.				
26	**Repair of Holidays in Coating**	40	Nos	125.00	5,000.00
27	Repair of Cosmetic Defects in Coating: Description of same as in 25 above, but for repair of cosmetic defects in coating.	80	m2	100.00	8,000.00
28	Repair of Defects in Line Pipes				
29	Repair of OWNER supplied pipes of all wall thicknesses, recorded at the time of taking-over by CONTRACTOR at all places of work.				
30	Cutting and rebevelling	25	Nos	1,000.00	25,000.00
31	Jack out method	25	Nos	1,000.00	25,000.00
32	All works for locating burst (occurred during hydrostatic testing and tightness test attributable to Owner issued materials) including detecting burst, necessary repairing/replacing defective pipe lengths, including cutting out and removing the defective pipe, pretesting the replacement pipe, welding of replacement pipe into mainline and NDT of welding, repair and re-testing of defective welds, coating of welded joints, cleanup, retesting including providing all labor, materials, consumables and inputs other than OWNER supplied materials and performing all works as per drawings, specifications and directions of Owner/ Owner's representative. In case of pinhole leaks not easily detectable all works for locating leak (occurred during mechanical resistance test and tightness test attributable to Owner issued materials) including detecting leak, The Payment will be made as per actual efforts and based on Equipment and manpower Rate provided in SCC . Further replacement & retesting will be paid as above.	2	Per burst	10,000.00	20,000.00
33	**LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER) (FOR TERMINAL PIPING)** **LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER DUE TO FIM)** All works for leak/burst (occurring during hydrostatic testing) by necessary repair/replacement of defective pipe length, including cutting and removing out defective pipes, welding, NDT of welds, repair and re-testing of defective welds, painting of welded joints, clean-up, re hydro testing of the pipe segment including providing all necessary equipment, labour, materials, consumables and inputs other than Owner supplied materials and performing all works as per drawings, scope of work, specifications, standards enclosed with the Contract and directions of Engineer-in-Charge. Note: 1. This rate shall be applicable for manufacturing defects in Company supplied materials only.	18	Inch-meter	1,000.00	18,000.00
34	**IDLE TIME PRESERVATION OF PIPELINE** Preservation of complete pipeline and associated facilities and its maintenance including supply of all consumables, all equipment, man- power, etc., complete as per the requirements of specifications, scope of work, standards, other provisions of Contract document and instructions of Engineer-in- Charge. By filling and pressurizing with nitrogen including supply and maintenance of nitrogen as per following details:				
35	Pipe OD - 12 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - 3 MONTH	23800	M	45.00	10,71,000.00
36	Pipe OD - 12 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - FOR EVERY ADDITIONAL MONTH BEYOND INITIAL 3 MONTHS	23800	M	25.00	5,95,000.00
37	PRE-COMMISSIONING FOR NATURAL GAS PIPELINES SYSTEM, Carrying out pre-commissioning activities and pre-commissioning checks to the specified acceptance criteria, making the entire pipeline system ready for commissioning (It includes cleaning including magnetic cleaning, Electrical Geometrical Pigging survey, dewatering, swabbing,, pre-drying activity, Golden-tie ins connecting the stations),, supply of all equipment, man-power, consumables, including all type of pigs and required quantity of nitrogen, materials for all temporary works and performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.				

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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38	Pipe OD - 12 INCH	23800	M	100.00	23,80,000.00
39	**Commissioning Assistance**				
40	**OVERALL COMMISSIONING OF ENTIRE PIPELINE SYSTEM** Overall commissioning including system checks, inertisation (as required) and charging of entire pipeline system, including all stations and all associated facilities including notifying the Company that the pipeline system is ready for commissioning; Review of status jointly with the Company and obtaining final clearance for start of commissioning; Development and submission of commissioning procedures, obtaining Company approval thereupon, carrying out overall commissioning of the total pipeline system including all facilities and all necessary coordination/ liaison with other Contractor(s) operations; Carrying out commissioning; Supply of all equipment like Nitrogen vapourisers (as required), along with all piping and instruments, temporary venting/ flaring/draining facilities as applicable, man-power, consumables including pigs and required quantity of Nitrogen (as required); Performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.				
41	Pipe OD - 12 INCH	23800	M	100.00	23,80,000.00
42	PIPELINE INFORMATION MANAGEMENT SYSTEM Providing pipeline information management system using web based software for monitoring pipeline construction progress and providing all "As Built" data & drawings for entire length of pipeline as per specifications enclosed with the tender document.	1	LS	25,00,000.00	25,00,000.00
43	VIDEO FILM & PHOTOGRAPHY OF CONSTRUCTION ACTIVITIES Preparation of high resolution video films with audio commentary and Industrial photography covering all aspects/activities of pipeline construction annotated as required, conversion of same to video DVD/Blue Ray format, submitting three (3) sets of the same as per details in scope of work document	1	LS	1,00,000.00	1,00,000.00
44	**FABRICATION OF LR BENDS :**				
45	Fabrication of 6D bend / LR (Induction) bends as per the relevant standard & Specification attached with the tender document from free issue linepipes (mother pipe) including but not limited to the following: "Receiving and taking over of free issue linepipes" from GAIL Dump Yard location as mentioned in Scope of Work, carrying out inspection of line pipe at the time of receive taking over in the presence of Company representative, carrying out repair of pipe defects attributable to Contractor after taking over, including supply of consumables & equipments; handling, hauling, transportation and loading/unloading required to transport the mother pipes between place of issue, LR bend fabricator/ manufacturer, intermediate storage as required, and final delivery of fabricated LR Bends to the worksite(s), as per requirement, Manufacturing/ fabricating of LR Bends, as per project requirements and Specifications. LR bends exact angle(s) shall be as per pipeline alignment. Note:- 1. Rate for repairing of defects in linepipes identified and recorded at the time of receiving & taking over i.e. defects attributable to Company shall be quoted separately in the applicable items of the SOR. 2.Loading of Pipe into installation contractor trailer shall be carried out by the GAIL Dumpyard maintenance agency already engaged by the Company.				
46	Bare Pipe ND12", API5L X70 - 7.1 mm	18	Nos	1,00,000.00	18,00,000.00
47	Bare Pipe ND12", API5L X70 - 8.7 mm	22	Nos	1,00,000.00	22,00,000.00
48	**SUPPLY AND INSTALLATION OF CASING PIPE & 6 INCH CS CONDUIT:** Supply and installation of casing pipe and 6 inch CS conduit for OFC by jacking / boring or open cut for rail, road or canal crossings wherever required in all types of soils and terrain separately for carrier pipes and fibre optic cable inside HDPE duct, supply of casing pipes and all other Contractor supplied materials viz. casing insulators and casing end seals as per enclosed drawing, materials for casing vents and drains, etc. including transportation, supply of all other materials, equipments, consumables, man-power, welding including visual inspection of all weld joints, installation of casing insulators, end seals, vents and drain-off pipes, backfilling and restoration as original of the facility crossed and performing all works as per drawings, specifications including PTS and GTS and instructions of Engineer-in Charge and provisions of Contract document.				

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49	Supply and installation of Casing pipe by Boring / Jacking as per item no. 48 (Other than Railway Crossings) Casing Pipe Details: (Pipe 18" , 6.4 mm Thick, API 5L GR.B)	100	M	17,000.00	17,00,000.00
50	Supply and installation of 6 inch CS Conduit by Boring/Jacking as per item no. 48 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	100	M	6,000.00	6,00,000.00
51	Supply and installation of Casing pipe by open cut as per item no. 48 Casing Pipe Details: (Pipe 18" , 6.4 mm Thick, API 5L GR.B)	100	M	10,000.00	10,00,000.00
52	Supply and installation of 6 inch CS Conduit by open cut as per item no. 48 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	100	M	3,500.00	3,50,000.00
53	**HDD CROSSING**				
54	**Generalities**				
55	Topographic / Bathymetry, Geotech Investigation and Hydrological data collection				
56	Site preparation				
57	Design & stress calculations as per requirement				
58	Material hand-over and material handling				
59	Site reinstatement				
60	Final dossier including all notes & calculations as required in the specification				
61	**Installation of 6 inch CS Conduit**				
62	Teletransmission--Separate Drilling for 6 inch CS Conduit for OFC installation				
63	Installation of HDPE duct & OFC cable inside 6 inch CS conduit				
64	Drilling & Pulling of 6 inch CS Conduit shall be done before mainline HDD.				
65	**Pipeline string**				
66	Beveling & welding				

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67	Inspection & testing of welds				
68	Field joint coating				
69	Temporary support (roller)				
70	Control of pipeline string				
71	Hydrotesting & leak test				
72	**Drilling operation**				
73	Earthwork entry / exit points including grading erection of embankment etc..				
74	Supply & clearing out of all material needed for drilling				
75	Drilling of washer pipe, reaming & cleaning of drill opening, supply and preparation of bentonite				
76	Pull back of the pipe string				
77	Disposal of surplus of soil & bentonite				
78	Control of the integrity of the coating				
79	**Work at entry point**				
80	Changes in direction				
81	Beveling & welding				
82	Inspection & testing of welds				
83	Field joint coating & coating of all bare section of pipe				
84	Earthwork				
85	Lowering-in				
86	backfilling as required				
87	**Work at exit point**				

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88	Changes in direction				
89	Beveling & welding				
90	Inspection & testing of welds				
91	Field joint coating & coating of all bare section of pipe				
92	Earthwork				
93	Lowering-in				
94	backfilling as required				
95	Complete work for the water/ Road/ Rail crossings, including taking over and handling of linepipes from Contractor Storage Yard to worksite, Arrangement of all additional land required for Contractor's storage, fabrication, access for construction; construction design calculation and engineering of the crossing, mobilization and demobilization at site(s), supply of all materials as per "Scope of Supply" and all consumables, equipment, manpower and other resources, and acquiring the required land for site preparations, and execution of, but not limited to, the following works in accordance with specifications, drawings, and as per provisions of the Contract document and instructions of the Company/ Engineer-in- Charge: Carry out all surveys required for collecting data relevant to design and construction of the crossing, preparation of all necessary construction drawings for Company's approval as per the provisions of the Contractor document, Preparation of detailed construction method statement and calculations including Scour Depth calculations for river/ canal crossings, Strings preparation including welding, 100% Radiography of welds, NDT of welds and re-beveled areas, radiography, weld repair and re-test, pre-testing of completed string, corrosion coating of field joints with Dirax or equivalent, inspection of corrosion coating and repair of defects, Preconstruction surveys and collection of all necessary data, Installation of pipeline and CS conduit (6 Inch CS Conduit shall be installed through Seperate Drilling) , horizontal directional drilling to the correct profile as per approved drawings and specification, Post-installation hydrotest including leaks and repair of defects and retesting, etc. for defects attributed to Contractor's faulty work, Supply, fabrication and construction of protective fencing as required, Hydrotesting, Supply, fabrication and erection of pipeline markers, Restoration and clean-up etc., Preparation of as-built drawings and other records etc., All other works not specifically listed herein, but required as per specifications, drawings, provision of contract document, calculations, and construction method statements, leading to successful completion of works.				
96	Linepipe details:- (Pipe 12" dia, Wall Thickness: 7.1 mm, Pipe Grade: API 5L GR.X-70 PSL 2, External Coating: 3LPE) CS Conduit details: (Pipe 6" dia, 6.4mm Thick, API 5L GR.B) Note: 1. CS Conduit shall be supplied by the Contractor. Radiography & Hydrostatic testing is not required to be done for CS Conduit. (6 Inch CS Conduit shall be installed through Seperate Drilling) Contractor shall quote accordingly. 2. The rate shall be applicable for the drilled length of the HDDs.	1300	M	32,000	4,16,00,000.00
97	All above works shall be executed in accordance with scope of work, GTS,PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. This line item is applicable for HDD crossing mentioned in the Crossing List with prior approval of Engineer - In-Charge during Construction.				
98	**SUPPLY & INSTALLATION OF OPTICAL FIBBE CABLE AND HDPE DUCT**				
99	Suppy of 24 Fibre Composite armoured Optical Fibre Cable drum (6 fibre G-655 & 18 fibre G-652) of 4 km +/-5% Cable drum length with fiber terminal closure, inspection chamber, electronic route marker all along pipeline route, Two number electronic locater as per PTS-Optical Fibre cable and Scope of Work C&I along with all required accessories and fitments not mentioned seperately.	26200	M	120	31,44,000.00

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100	Inspection/Jointing Chamber (fabricated or readymade)	8	Nos	20,000	1,60,000.00
101	Blowing Pit (fabricated or readymade)	25	Nos	15,000	3,75,000.00
102	Supply of jointing closure 24 Fiber, 2 way including all accessories (3M, Siemens, Reychem make only)	10	Nos	5,000	50,000.00
103	Supply of End to End OFC termination of wall mounted FTC with pig tails other accessories for termination of OFC - 24 Fibre in the Telecom Room at Bokaro & SV1	2	Nos	15,000	30,000.00
104	Electronic marker	8	Nos	3,000.00	24,000.00
105	Electronic Locator	1	Nos	2,00,000.00	2,00,000.00
106	Supply of 50mm OD permanently lubricated HDPE telecom duct along with all the required accessories as per PTS-Optical Fibre cable and Scope of Work C&I	26700	M	110.00	29,37,000.00
107	Laying of HDPE Duct : Laying of 50mm HDPE Ducts in same pipeline trench direct buried, or inside 6 inch CS conduit at various crossings as per Specification in all type of soil & terrain, excavated as required, padding, backfilling, etc. including supply of accessories required for HDPE Duct installation, including plastic couplers, end plugs, cable sealing plugs, end caps, etc. suitable & sufficient for above supplied ducts, cleaning and sealing of ducts at the end laid drum lengths, preparation and supply of cable blowing pit at each Km jointing of HDPE duct, testing of HDPE Duct and accessories after laying preparation of report and final drawing and documents as per specification, joint location marking, erection accessories, as-built, etc.	22500	M	25.00	5,62,500.00
108	Blowing of Optical Fibre Cable inside HDPE Duct : All activities pertaining to Blowing of Optical Fibre Cable in same pipeline trench directly (after testing drum at site), inside HDPE duct along the pipeline and at crossing, sealing using all materials required as per specification	22500	M	40.00	9,00,000.00
109	Installation of FTC & Wire mesh, termination of OFC on FTC / DDF inside telecom room, splicing with steet fibre, fibre test, OTDR test, power testing of laid OFC, identification of fault, rectification, earthing, final testing and commissioning, preparation of reports, etc. work complete in all respect with all necessary accessories for all location till final Handing Over and Taking Over by Owner of laid OFC.	1	LS	1,00,000.00	1,00,000.00
110	**TRANSPORTATION OF COATED AND BARE LINEPIPES FROM GAIL DUMPYARDS (ANY LOCATIONIN INDIA) TO CONTRACTOR STORAGE YARD:**				
111	"Receiving and taking over" of "free issue" Linepipes from GAIL Dump Yard location (any location in India); Carrying out inspection of Linepipes at the time of receiving and taking-over, recording of pipe & coating defects at the time of taking over in the presence of Company's representative, carrying out repair of coating defects & pipe defects attributable to Company; including supply of materials, consumables & equipments; handling, hauling and transportation from designated place of issue to Contractor Storage Yard; unloading and stacking of the linepipes at Contractor Storage Yard; including arranging all equipments, trailers, trucks & manpower; all works as per Scope of Work, drawings, PTS, GTS and other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, Provision of Contract & instructions of Engineer InCharge.				

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112	Linepipe Details:- Coated and Bare Line Pipe 12" diameter API 5L Gr. X-70 PSL-2 Wall Thickness - 6,4mm / 7.1mm / 8.7 mm External Coating - 3LPE, Internal Coating - Liquid Epoxy 1) Loading of Pipes into Installation contractor's trailer shall be carried out by the contractor. 2) Development & Maintenance of Contractor Storage Yard adequate to store the linepipes including arrangement of all Lifting & Handling equipment at Contractor's Storage Yard shall be done by the Contractor. Rate for the same shall be quoted in applicable items. 3) Rate for repairing of coating defects in linepipes identified and recorded at the time of receiving & taking over i.e. coating-defects attributable to Company shall be included in this item. 4) Rate for repairing of pipe-defects identified and recorded at the time of receiving & taking over i.e. pipe-defects attributable to Company shall be quoted separately in the applicable items of the SOR. 5) Transportation of line pipe from Contractor's Storage Yard to work site is included in SOR item 1 above, No separate payment will be applicable for the same.	220000	Ton-Km	25.00	55,00,000.00
113	**TRANSPORTATION OF FREE ISSUE PIPING ITEMS (OTHER THAN LINE PIPE) FROM GAIL STORAGE YARDS (ANY LOCATION IN INDIA) TO CONTRACTORS YARD / WORKSITE(S) :** "Receiving and taking-over", handling, lifting, loading, transportation and unloading of Company supplied "free-issue materials" (Other than line pipe) viz. Metering Filtering and PRS Skid, Scrapper Launcher/ Receiver & accessories, Valves with or without Actuators, Insulation Joints, Flow Tee, Pig Signallers, fittings, flanges etc. from GAIL Storage yards location (any location in India) to Contractor's Storage Yard / work-site(s). Note:- 1) Location of GAIL Storage Yard shall be anywhere in India. Contractor shall quote accordingly. 2) Transportation of FIM from Contractor's Storage Yard to work site, is included in SOR item 121 below, No separate payment will be applicable for the same.	15000	Ton-Km	23.00	3,45,000.00
114	**DEVELOPMENT OF CONTRACTOR STORAGE YARD:**				
115	Development of the Contractor Storage Yard including fencing, illumination etc., including deployment of all lifting and handling equipments, manpower required to stack, unload and load all Free Issue Material (FIM) including Line Pipes and all bought out items, as required; storage of all Free Issue Material and bought out items for the required duration as per project requirement, all works as per Scope of Work, drawings, other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, PTS, GTS and Provision of Contract & instructions of Engineer In-Charge. The storage yard shall be used for storage of all Free Issue Line pipes, all other Free Issure Material (FIM) and all bought out items required for the project. Notes:- 1) Development of contractor storage yard adequate to store all the material required for Project, including all Free Issue Material (FIM) and bought out items. (Rate for the same shall be captured in this item) 2) Maintenance of contractor storage yard for the entire project period is included in the scope of contractor. No separate payment shall be applicable for the same.	1	LS	5,00,000.00	5,00,000.00
116	Hard Rock breaking by controlled blasting / chiseling method (rate will be applicable in case when prior approval for rock breaking is obtained by the contractor from GAIL / PMC)	100	M3	3,500.00	3,50,000.00
117	Clean Agent Fire Supression System as per Scope of Work	1	LS	2,00,000.00	2,00,000.00
118	Restoration of underground utilities (pipes & cables) during excavation at ONGC, GCS Bokaro and Receiving Station (which is inside SV-01 Premises)	10	Nos	50,000.00	5,00,000.00
119	**Sub-Total Section A**				**14,61,47,800.00**
	SECTION-B [MECHANICAL (PIPING & TERMINAL WORKS)]				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010			PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
				Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. VICHITRA CONSTRUCTIONS PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
121	**PIPING WORKS AT DESPATCH AND RECEIVING STATIONS AND HOOK-UP WITH ONGC GCS, BOKARO** All works for installation of all piping at all elevations for Despatch and Receiving Stations as indicated in Drawings, Scope document, including supply of all consumables, Gaskets, nuts, bolts Studs, manpower, materials and equipment (except Company supplied free-issue materials), aligning, grouting, tie-in with pipeline and carrying out all mechanical works of underground and above ground piping including fabrication, welding, installation of all pipes, valves (manual & actuated), flanges, fittings, flow tees, pig signalers, insulating joints, corrosion monitoring probes /corrosion coupons, installation of instruments (pressure/temperature gauges, vents, drains-off, safety relief valves, electro hydraulic valves etc.) as indicated in P& IDs and GADs. 100% Radiography of weld joints of piping above 1.5 inch, Magnetic particle & Die penetration test for piping 1.5 inch & below, all NDT of welds, weld repairs/retesting, hydrostatic testing, cleaning/flushing, functional testing, de-pressurizing , Drying and dewatering, cutting and re-beveling (as required), hookup of all pipeline/utilities at the battery limit with the pipeline/utilities installed by others, obtaining all statutory clearances, approvals and permissions for the work (wherever required), excavation and filling in all types of soils including soft/hard rock for installation of piping/ pipe supports; corrosion coating and external painting (as required), finishing, clean-up and restoration of site, preparation of as- built drawings, documents and project records and performing all works as per drawings, specifications, other provisions of Contract document and instructions of Engineer-in-Charge. Civil/ structural works for piping supports will be paid separately as per unit rate provided elsewhere in the contract. Cost of Transportation of all materials (Including FIM mentioned above) for station works, from Contractor's own stock-yard to Work site, to be included in this SOR item. No separate payment will be applicable for the same.				
122	Fabrication and Erection of piping as per item no.110, (For Pipe Size 2 Inch and above, 100% Radiography) Note: 1. Rate for Handling, Fabrication and erection of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item. Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor.Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes 2" & above, shall also be part of this item. Contractor shall quote accordingly.	1900	Inch Dia Meter	1,000.00	19,00,000.00
123	Fabrication & Erection of Piping as per item no.110 (For Pipe Size Below 2 inch, Magnetic particle & Dye Penetration Test as per the requirement of specification)	50	Inch Dia Meter	1,000.00	50,000.00
124	Painting of Piping (Pipe, Fittings, Flanges, Valves, Equipments, etc.) as per item no. 110	1950	Inch Meter	200.00	3,90,000.00
125	Hydrostatic testing, cleaning / flushing, functional testing, de-pressurizing, dewatering & drying of Piping as per item no. 110 (for all size upto 12").	1950	Inch Meter	200.00	3,90,000.00
126	**INSTALLATION OF COMPANY SUPPLIED FIM (FML SKID AND PIG LAUNCHER/RECEIVER SYSTEM) AT DESPATCH TERMINAL AND RECEIVING TERMINAL**				
127	Installation of Company supplied Filtering, Metering and PRS Skid and Scrapper Launcher/ Receiver with accessories, at stations including all handling and installation works; as per drawings, specifications enclosed with the Contract and directions of Engineer-in-Charge. Cost of Transportation of above Free issue items, from Contractor's own stock-yard to Work site for station works, to be included in this SOR item. No separate payment will be applicable for the same.	1	LS	5,00,000.00	5,00,000.00
128	**CONTRACTOR SUPPLIED ITEMS:(Supply of Items as per attached PTS,GTS,Data Sheet,QAP and PMS)**				
129	**Station pipe -Seamless**				
130	1" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, PE, SEAMLESS	6	Meter	1,500.00	9,000.00
131	2" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	90	Meter	2,000.00	1,80,000.00
132	4" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	120	Meter	3,500.00	4,20,000.00
133	10" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	12	Meter	8,000.00	[illegible]00.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. VICHITRA CONSTRUCTIONS PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
134	12" pipe, 7.1mm thk, ANSI B 36.10, API 5L X 70,HFERW	84	Meter	10,000.00	8,40,000.00
135	**Supply of fittings & Flanges**				
136	1 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 350 LF2,CL1, BW, ANSI B16.25	4	Nos	2,000.00	8,000.00
137	1" WNRF FLANGES, 6C1, SCH. 160 / 600#, WNRF, B-16.5, ASTM A350 LF2, CL1, BW-ANSI B16.25 RF	4	Nos	2,000.00	8,000.00
138	1", BLIND FLANGES, 6C1, 600#, RF, B-16.5, ASTM A350 LF2, CL1, RF	4	Nos	2,000.00	8,000.00
139	3/4" EQUAL TEES, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25,	2	Nos	1,800.00	3,600.00
140	3/4", CUP THREADED 6C1, 6000#, ANSI B16-11, ASTM A 350 LF2, CL1 , BW - ANSI B16.25, ANSI B1.20.1,	3	Nos	1,800.00	5,400.00
141	**WELDOLETS (MAINLINE x BRANCH SIZE)**				
142	4" x 1", WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	4	Nos	5,000.00	20,000.00
143	12" x 2" WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 7.1 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 694 F70	5	Nos	10,000.00	50,000.00
144	12" x 2", WELDOLETS (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 7.1 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	35	Nos	10,000.00	3,50,000.00
145	**GASKETS**				
146	GASKETS, 6C1, 600#, RF, ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 1"	12	Nos	100.00	1,200.00
147	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 2"	210	Nos	200.00	42,000.00
148	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 4"	30	Nos	3,000.00	90,000.00
149	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 10"	2	Nos	5,000.00	10,000.00
150	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 12"	44	Nos	6,000.00	2,64,000.00
151	**NIPPLES**				
152	NIPPLES, 6C1, Sch 160 /600#, ANSI B 36.10, ASTM A333 GR.6, BOTH ENDS PLAIN, SEAMLESS-LG=100mm, 3/4"	10	Nos	1,000.00	10,000.00
153	NIPPLES, 6C1, Sch 160 / 600#, ANSI B 36.11, ASTM A333 GR.7, ONE END THRD -MNPT SEAMLESS- LG=100mm, 3/4"	8	Nos	1,000.00	8,000.00
154	**Supply of following Valves as Per attached PTS,GTS,Data Sheet,QAP,PMS & MTO**				
155	1",BALL VALVE - FULL BORE (RF) (ABOVE GROUND),6C1	6	Nos	8,000.00	48,000.00
156	3/4", CHECK VALVE (RF) (AG), 6C1	2	Nos	7,000.00	14,000.00
157	**3/4",NEEDLE VALVE, 6C1**	5	Nos	7,000.00	35,000.00
158	Note (Applicable for all items of SOR item No 128 to 157): 1. Before procurement of any of the above materials Contractor will take prior approval from GAIL / PMC. 2. Payment will be made for actual quantity used.				
159	**Sub-Total Section B**				**57,50,200.00**
160	**SECTION-C [CIVIL / STRUCTURAL & ARCHITECTURAL]**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. VICHITRA CONSTRUCTIONS PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
161	**CIVIL , STRUCTURAL & ARCHITECTURAL**				
162	**Earthwork excavation in soil**				
163	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	2900	cum	300.00	8,70,000.00
164	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth beyond 1.5m and upto and inclusive of 3.0m including Removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	70	cum	500.00	35,000.00
165	**Earthwork excavation in soft rock**				
166	Earth work in EXCAVATION below ground level for all kinds of works in SOFT ROCK and HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as irected including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	255	cum	2,000.00	5,10,000.00
167	**Backfilling after execution of work**				
168	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps within a LEAD OF 100M,including re-excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/ mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	1150	cum	300.00	3,45,000.00
169	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps beyond a LEAD OF 100M AND UPTO & INCLUSIVE OF 500M including re- excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	490	cum	500.00	2,45,000.00
170	**Transporting & Disposing the SURPLUS EARTH AND DEBRIS**				
171	Transporting and disposing the SURPLUS EARTH AND DEBRIS including shrubs and vegetations from construction areas to areas ANYWHERE OUTSIDE THE PLANT BOUNDARY, including re-excavating the deposited soil excavated earlier, loading, transportation, unloading, laying at all depths and heights, stacking,levelling and dressing both the area (viz. from where the earth is transported and where it is deposited) to required levels and slopes complete with all lifts as directed. For carting on the basis of truck measurements (volume of truck reduced by 30% for voids). DISPOSAL AREAS OUTSIDE PLANT BOUNDARY TO BE ARRANGED BY THE CONTRACTOR. Royalty as applicable for disposal outside plant limits to be borne by the Contractor	1310	cum	500.00	6,55,000.00
172	**EARTH WORK FILLING BY EXCAVATION**				
173	EARTHWORK IN FILLING by excavating the earth from BORROW AREAS arranged by CONTRACTOR for all leads, transporting the earth from borrow area including cleaning & stripping the earth at borrow areas, breaking clods, loading, unloading and laying at all depths and heights in layers of thickness not exceeding 15 cms., watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% of the maximum laboratory dry density, ressing, trimming, levelling the top surface etc. in foundations, plinths, trenches etc. all complete.	9555	cum	1,000.00	95,55,000.00
174	**PLAIN & REINFORCED CEMENT CONCRETE: (REFER SPECIFICATION NO. (Z/02/0004)**				
	PLAIN CEMENT CONCRETE - PCC				

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
176	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:4:8 (1 cement : 4 coarse sand (Zone-III) : 8 graded stone aggregate 40 mm nominal size)	160	cum	6,000.00	9,60,000.00
177	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:3:6 (1 cement : 3 coarse sand (Zone-III) : 6 graded stone aggregate 40 mm nominal size)	22	cum	6,300.00	1,38,600.00
178	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:2:4 (1 cement : 2 coarse sand (Zone-III) : 4 graded stone aggregate 20 mm nominal size)	150	cum	7,000.00	10,50,000.00
179	Providing and laying PLAIN CEMENT CONCRETE for all depths below and upto plinth level in foundations, drains, fillings, non-suspended floors, pavements & ramps or any other works etc. including shuttering, tamping, ramming, vibrating, curing, etc. all as specified in any shape, position, thickness and finishing the top surface rough or smooth as specified and directed all complete for concrete grade M20 with 20mm and down size graded crushed stone aggregates/Gravels. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR	26	cum	8,000.00	2,08,000.00
180	**RCC WORKS**				
181	**SUBSTRUCTURE**				
182	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUBSTRUCTURE INCLUDING CENTERING & SHUTTERING) e.g. foundations, raft, beams, pile caps, Retaining walls, counterforts, buttresses, pedestals, pipe sleepers, columns, suspended floors, staircases, landings, steps, brackets etc., including equipment/ machine foundations & pedestals viz. compressors, generators, etc. (including single pour concreting as specified on the drawing), applying cement wash on concrete surface (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering, etc., wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT)for all depths below and upto plinth level in any shape, position and thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	1220	cum	9,000.00	1,09,80,000.00
183	**SUPER STRUCTURE- EXCLUDING CONTROL ROOM BUILDING, GUARD ROOM & BOUNDARY WALL**				
184	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUPER STRUCTURE INCLUDING CENTERING & SHUTTERING in suspended floors, slabs, beams, columns, walls including counterforts, staircases, landings, steps, facias, fins, mouldings, gutters, shelves, window sills, canopies, lintels, girders, ducts, brackets, chajjas with drip moulds, pedestals, posts, struts, equipment/ machine foundations, ramps etc. (including single pour concreting as specified on the drawing), providing cement wash (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT) FOR ALL HEIGHTS UPTO & INCLUSIVE OF 20 m ABOVE PLINTH LEVEL in any shape, position, thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	70	cum	9,500.00	6,65,000.00
185	**CONTROL ROOM BUILDING (SUPERSTRUCTURE)**				
186	Construction of Control Room Building as per drawings and specification. Building work for all Superstructure works INCLUDING CENTERING & SHUTTERING , Reinforcement , masonry work, partition wall, Plastering & pointing, flooring, Floor finishes, Door & windows, rolling shutter, false ceiling, all finishes, painting, roof treatment complete in all respect etc.)	215	m2	30,000.00	64,50,000.00
187	**GUARD ROOM (SUPERSTRUCTURE)**				
188	Guard Room as per drawings and specification. Building work for all superstructure works including (Reinforcement, masonry work Plastering & pointing, flooring, Floor finishes, Door & windows, painting, roof treatment, all finishes, water supply and sanitary work complete in all respect etc.)	17	m2	20,000.00	3,40,000.00
189	**HYD Bars / MS Bars**				

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190	Supplying and placing in position HIGH YIELD STRENGTH DEFORMED STEEL BARS REINFORCEMENT of Grade Fe500D TMT conforming to IS:1786, for RCC work (excluding control room building & Guard room & boundary wall superstructure) including transporting the Steel, straightening, cleaning, decoiling, cutting, bending to required shapes and lengths as per details, binding with 18 SWG black soft annealed binding wire at every intersection, supplying and placing with proper cover blocks, supports, chairs, overlaps, welding, spacers, fanhooks etc. for all heights and depths etc. all complete as directed. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE	136	MT	1,00,000.00	1,36,00,000.00
191	**BOUNDARY WALL (SUPERSTRUCTURE)**				
192	compound wall (Superstructure)with RCC columns, beam, coping and Brick masonry (3.0m high) with an additional 0.6m high barbed wire & concertina coil (dia. 600mm) overhead on 'Y' shape structural steel frame. (SUPERSTRUCTURE) works included (masonry work, Plastering ,painting, CENTERING & SHUTTERING complete in all respect etc.)with gate and supplying, fixing and tensioning in position 2.5mm(12 gauge), 2 ply, 4 points, GI Barbed wire designation A-1 conforming to IS:278 in horizontal rows and cross diagonals for compound wall "Y" shaped overhang etc. with necessary GI staples, clips and pins, GI straining bolts and binding wire with all labour and materials etc. complete as per drawings, specifications and directions of Engineer-in-Charge.(The barbed wire shall be measured in linear length of the barbed wire actually fixed) Supplying, fabricating and fixing in position structural steel line posts, straining posts, struts for 'Y' shaped overhang etc. conforming to IS:2062 over brick/stone Masonry/ RCC compound walls/ columns, cutting to required size as per drawings and specifications, welding where necessary, embedding in position, holding to correct level and line, any auxiliary structure for dummy supports, drilling holes and painting as per painting specification attached with tender, cutting brick/rubble/concrete surfaces if necessary, grouting with M20 grade concrete including cost of grout with all labour and material etc. complete as per drawings, specifications and directions of Engineer-in-Charge.(All materials including cement shall be supplied by contractor).	285	RM	15,000.00	42,75,000.00
193	**STRUCTURAL STEEL WORKS (REFER TE SPECIFICATION)**				
194	Supplying, fabricating and erecting of structural steel and applying COATING (Post-erection/ Field) of approved quality and shade as per TE Specification or Job Specifications, wherever applicable) over the coat of shop primer already applied, including storage, surface preparation, degreasing, cleaning, drying, providing necessary arrangement for access, testing etc. including touching up of shop for steel structures (Including Wicket Gate, Main Gate and emergency gate, excluding ladders, spiral stairways & hand rails) at all location & levels, all complete as specified, for UNIT (INLAND) areas considering environment classification as INDUSTRIAL. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE. (Unit rate based on Structural steel weight)	19.5	MT	1,25,000.00	24,37,500.00
195	MISCELLANEOUS STEEL WORKS (REFER TE - SPECIFICATIONS)				
196	**MS Chequered Plates**				
197	Supplying, fabricating and erecting in position at all levels and locations bolted, screwed and/or welded M.S. CHEQUERED PLATES of any thickness in walkways, platforms, stairtreads or any other place as directed, etc. cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing, welding, preparation and submission of fabrication drawings and preparing the surfaces for painting and applying shop primer as per TE Specification after fabrication and return of unused/ scrap/ unserviceable chequered plates to Owner's store and material reconciliation etc. all complete as specified and directed	1.5	MT	1,50,000.00	2,25,000.00
198	**Anchor Bolts**				
199	Supplying, fabricating, fixing and keeping in position at all levels and locations THREADED ANCHOR BOLTS of all diameters and nomenclature including nuts, washers, anchor plates, pipe sleeves etc. in foundations, columns, pedestals, slabs, beams, walls etc. or any other place as directed including handling & transporting, straightening if required, turning from relevant size M.S. rounds to required diameter, threading, welding, providing necessary templates and auxiliary dummy structures, if any, necessary tying and welding with reinforcement, adjustment of shuttering & reinforcement/any other fixture, greasing exposed metal surfaces, covering bolts and packing the sleeves with jute cloth etc. all complete as specified and directed.(SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1	MT	1,25,000.00	1,25,000.00
200	**MS Metal Inserts**				
201	Supplying, transporting, storing, fabricating and fixing in position M.S. METAL INSERT (with lugs) of any shape made out of flats, plates, rolled sections, pipes etc. providing necessary templates, staging, cutting,straightening, if required, bolting, welding as required and embedding in position on both Plain and Reinforced Cement concrete members inclusive of adjusting shuttering & reinforcement/ any other fixture, welding where necessary, tying and holding to correct level, line and position, any auxiliary dummy structures to support the heavy inserts, painting exposed surfaces with a coat of primer as per TE Specification all complete for all depths and heights as specified and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	0.55	MT	1,50,000.00	82,500.00
202	**MS Grating**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. VICHITRA CONSTRUCTIONS PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
203	Supplying, fabricating and erecting in position at all levels and locations ELECTROFORGED GALVANISED GRATING (purchased from approved manufacturer by the Contractor) conforming to TE STANDARD (in walkways, platforms, stair treads etc.) including cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing with manufacturer's supplied galvanised clamps, preparation and submission of fabrication drawings, all complete as specified and directed (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.7	MT	1,75,000.00	2,97,500.00
204	**Hand Railing 1000mm**				
205	Supplying, fabricating and fixing in position at all locations 1000mm high INCLINED HAND RAILING (for staircases) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade M.S. Tubes conforming to IS:1239 including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE SPEC. preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	RM	2,500.00	25,000.00
206	Supplying, fabricating and fixing in position at all locations 1000mm high HORIZONTAL HAND RAILING (for platforms, walkways, etc. or any other location as directed) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade MS Tubes conforming to IS:1239 and 100x5 MS Toe Plate confirming to IS:2062 (Grade A/B), including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE standard drawing & specification, preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	2,500.00	25,000.00
207	**CHAIN LINK FENCING**				
208	Supplying, fabricating and fixing G.I. chain link fencing with 3.5mm dia. wire, 50x50mm diamond mesh chain link fence fabric conforming to IS:2721 fixed to steel/RCC posts/struts above ground level, including supply of chain link fencing fabric in 1.9 metre wide rolls, stretcher bars, staples, etc. required for fixing the fencing, fixing of chain link fencing between straining posts, fixing of bottom of fencing in cement concrete 1:2:4 blocks and painting with synthetic enamel etc. , including supply and fixing line wires, complete as per drawings, specifications and directions of Engineer -in-Charge (All materials shall be supplied by Contractor). (The measurement of chain link fencing shall be on linear basis for 1.9 m wide fencing fabric)	10	M	4,000.00	40,000.00
209	**ROADS & FLEXIBLE PAVEMENT (UPTO WBM LAYER)**				
210	Preparation and consolidation of sub-grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth outside the property boundary in the un-disputed areas as directed by Engineer-In-Charge.	2400	M2	200.00	4,80,000.00
211	Supplying and laying of stone aggregate of 63mm down to 45mm size for WBM layer Base Course, tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 75mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding material of plasticity index upto 6%, including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts etc. complete as per drawings, specifications and directions of Engineer-in-Charge	7200	M2	250.00	18,00,000.00
212	**CONCRETE PAVEMENTS**				
213	Construction of dry lean cement concrete (DLC) sub base over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in- charge.	240	cum	7,000.00	16,80,000.00
214	Providing and laying Reinforced Cement Concrete with 20mm and down size graded crushed stone aggregates in flooring, pavements etc. including leaving pockets, if necessary, making recess/drains, laying in alternate panels, etc. for all depths including shuttering, tamping, curing, providing dowel bars with sleeves/tie bars etc where ever required at site. as specified in any shape, thickness, position and finishing the top surface smooth etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For RCC of M-30 grade concrete (all materials including cement but excluding cost of providing & fixing reinforcement and joint sealing shall be supplied by the contractor).	600	cum	8,000.00	48,00,000.00
215	Providing 20mm wide Expansion Joints in pavement slabs as per general technical specification including cleaning the joints of all loose material, filling with 20mm thick impregnated fibre boards for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved Joint Sealing Compound as per IS:1834 Type-B etc. all complete as per drawings, specifications and directions of Engineer-in-Charge	1100	M	300.00	3,30,000.00

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216	Sealing joint around pedestal and column etc. 20mm wide x 150 mm deep including filling with 20mm thick impregnated fire board for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved joint sealing compound as per IS:1834 Type-B.	300	M	300.00	90,000.00
217	**RCC PIPE CULVERTS & ELECTRICAL ROAD CROSSINGS ETC. (as per drawing & TE specification)**				
218	Supplying and laying in position RCC pipes with collars conforming to IS:458 for pipe culverts, cable crossings etc. including cutting the pipe if necessary, lowering, laying in position to proper levels, slopes etc. caulking the joints with spun yarn soaked in neat cement slurry and finishing with cement mortar 1:2 (1 cement : 2 sand) curing etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For following Class and Internal PIPE DIA (MM). (Dia (internal) - 500 mm, Pipe Class - NP3)	20	M	3,000.00	60,000.00
219	**U/G AND A/G G.I. PIPELINE SYSTEM - WATER SERVICES tender specification**				
220	Supplying and laying mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ ASTM A105 (Galvanized) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, earthwork in excavation for trenches, valve pits, etc. in all types of soil excluding soft and hard rock including laying of pipes in trenches, joining the pipes and fittings with threaded connections, hydrostatic testing of the piping, backfilling the trenches with selected/approved earth fill material, cutting of roads wherever required, making good the road surface after laying, disposal of surplus earth within a lead of 500 m, etc. including supply of necessary fittings etc. complete as per specifications, drawings and directions of Engineer-in-Charge. For following Nom.Size in mm. (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	500.00	5,000.00
221	Supplying and laying above ground mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ASTM A 105 (GALVANISED) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, including laying of pipes on sleeper, walls, including erecting piping on columns, etc. for pump station, overhead tanks, etc. including joining the pipes and fittings with threaded connections, hydrostatic testing of the piping including supply of necessary fittings etc & pipe supports. complete as per specifications, drawings and instructions of Cement Supplied by contractor (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	500.00	5,000.00
222	**MISC. CIVIL AND STRUCTURAL WORKS FOR U/G PIPING AND OTHER CIVIL WORKS**				
223	Providing and laying brick masonry with locally available bricks of specified class (Brick of class lower than specified shall not be accepted) in cement mortar 1:4 (1 cement : 4 Coarse sand) in one or more brick thickness and in any shape in foundation and plinth for valve pits, drains, circular/square manholes, wing walls, etc. including providing recesses, openings, etc. including curing, finishing the joints flush below ground level and raking out joints in plinth with all labour and material, etc. complete as per drawings, specifications and direction of Engineering-Charge. For following Brick Class. All materials including cement supplied by the Contractor and. (Brick Class - 5)	418	cum	6,000.00	25,08,000.00
224	Providing 13mm thick average cement plaster in cement mortar 1:3 (1 cement: 3 sand) on brick walls/stone masonry/pitching or on concrete surfaces for manholes, valves pits, culverts, wing walls, etc. including cleaning and preparation of the surface, scaffolding, curing etc. for all depths and heights complete as per drawings specifications and direction of Engineer-in-Charge. All materials including cement supplied by the Contractor.	775	M2	300.00	2,32,500.00
225	**UNDERGROUND SEWER SYSTEM - RCC PIPES**				
226	Supplying and laying underground R.C.C. pipes sewers with socket and spigot ends conforming to IS:458 of approved make, to proper grade and alignment, including earthwork in excavation in all types of soil except soft and hard rock for pipe trenches, etc. including dewatering, shoring and shuttering if necessary, dressing of sides, leveling, grading and ramming of bottoms, cutting the R.C.C. pipes to required lengths, lowering the pipes, jointing, including connecting the pipes to manholes and grouting the pipe body with manhole wall using cement mortar 1:2 (1 cement : 2 sand), testing, draining of water and cleaning of pipe after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness , watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, including cutting of roads wherever required and making good the same, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit etc. complete for all depths as per drawings, specifications and instructions of Engineer-in-Charge.(All material shall be supplied by contractor) For following Pipe size (mm) and Class(The following pipe sizes are all internal diameter of the pipes)				

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227	(Dia (Internal) - 100 mm, Piping Material Class - NP2)	15	M	500.00	7,500.00
228	(Dia (Internal) - 150 mm, Piping Material Class - NP1)	15	M	700.00	10,500.00
229	(Dia (Internal) - 450 mm, Piping Material Class - NP2)	70	M	1,200.00	84,000.00
230	**UNDERGROUND SEWER SYSTEM-HDPE PIPES**				
231	UNDERGROUND SEWER SYSTEM-HDPE PIPES :- Supplying and laying HDPE pipes conforming to IS:4984 of approved make to proper grade and alignment, including earthwork in excavation for trenches etc. in all types of soil except soft and hard rock including dewatering till completion of subsequent works, shoring and strutting, if necessary, dressing the sides, leveling, grading and ramming the bottom, jointing the pipes using hot plates as per manufacturer's recommendation, lowering, providing and laying 1:5:10 (1 cement : 5 sand : 10 aggregate) plain cement concrete of minimum 100mm thickness on bottom and side of pipe as directed, connecting the pipes to manholes and grouting the pipes to manhole/valve chamber walls, including supplying and fixing the specials and fittings, such as bends, reducers, tees, elbows, caps etc. conforming to IS:8008 or fabricated from pipes as per specification, supplying and fixing of flanges, fixing of online valves, including fixing of bolts, nuts and gaskets etc. as per specifications, testing, draining of water and cleaning of pipes after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness, watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit, cutting of road wherever required, making good the same etc. complete for all depths as per drawings, specification and instruction of Engineer-in- Charge. For the following nominal diameter (mm) Pressure Rating(Kg/Cm2). (Dia (Internal) - 80 mm, Pressure Rating - 2.5 Kg/sqcm)	50	RM	500.00	25,000.00
232	**PLUMBING AND BUILDING DRAINAGE**				
233	Supplying and fixing approved quality Cast Iron soil/waste pipe conforming to IS:1729 below ground with necessary specials, bends such as Y-junction, T- junction (both single and double) including plugs, shoes, cowls, jointing with lead caulked joints and testing, cutting in floors, earth work in excavation, encasing the pipe in 50mm THK, PCC M20, backfilling and removal of surplus earth upto a lead of 50M etc. complete as per drawings, specifications and directions of Engineer-in-Complete				
234	100mm dia (All materials including cement supplied by contractor)	10	RM	1,000.00	10,000.00
235	80mm dia (All materials including cement supplied by contractor)	10	RM	800.00	8,000.00
236	Supplying and fixing gun metal globe valve conforming to IS:778, complete as per specifications and directions of Engineer-in-Charge.				
237	Dia - 50 mm	2	Nos	2,000.00	4,000.00
238	Constructing of brick masonry valve chamber in 1:4 Cement mortar(1 cement: 4 sand) with CI frame & cover fixed on M-20 grade cement concrete , necessary excavation, M-20 grade foundation concrete, 13mm thick 1:3 cement plaster on inside & all exposed surfaces, backfilling, removal of surplus earth for all leads within the complex limit etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge. For following Valve size and Brick Class (All materials including Cement supplied by contractor)				
239	Dia - 50 mm, Brick Class - 5)	2	EACH	15,000.00	30,000.00
240	Providing and fixing approved stone ware 100mmx100mm dia. gully trap as per tender specification, including grating with CI frame and cover 300mmx300mm including brick masonry (brick class shall be as mentioned below) chamber in 1:4 cement mortar(1 cement: 4 sand) on M-20 grade cement concrete foundation, plastered inside and outside surfaces with 1:3 cement mortar (1 cement: 3 sand) with 13mm average thickness including providing and fixing light duty CI frame and cover, painting CI frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat, earth work in excavation, backfilling, removal of surplus earth, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry etc. all complete as per drawings, specifications and directions of Engineer-in-Charge				

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241	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	2,500.00	5,000.00
242	Construction as per(Design basis & general technical specification) of brick masonry (brick class shall be as mentioned below) inspection chambers/manholes of 750mmx750mm internal size 1000mm deep(Max.) in cement mortar 1:4 (1 cement: 4 sand) with CI frame and cover 500mm clear dia, (circular Medium duty of grade MD-10) conforming to IS:1726 fixed on RCC slab of M-30 grade, necessary excavation, supplying, fixing 4 Nos. 16mm dia M.S. rungs, M-20 grade foundation concrete 1:3 cement mortar(1 cement: 3 sand) plastering of 13mm average thickness for inside & 16mm avg. thickness for outside exposed surfaces, backfilling, disposal of surplus earth upto a lead of 100M, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry, painting the C.I.frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat etc. all complete as per drawings, specifications and directions of Engineer-in-Charge.				
243	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	15,000.00	30,000.00
244	Construction, supplying, installation, testing and commissioning of septic tank as per standards and IS:2470 Part-I , with all necessary accessories like inlet, outlet vent pipes, manhole covers, rungs etc. including earthwork in excavation in all type of soil except soft and hard rock, backfilling and disposal of surplus earth for all leads etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge				
245	All material including cement supplied by contractor for (Users - 10 NOS)	1	Nos	35,000.00	35,000.00
246	**MISCELLANEOUS ITEMS**				
247	Supplying and fixing in position entrance gate in complex boundary wall fencing manufactured out of steel frame work and square MS bars of 20 mm at 100 c/c and horizontal name plate band at lock rail level suitably hinged with box type steel post embedded in cement concrete i.e. providing the tension bar for smooth operation and locking arrangement etc. complete as per tender specification, including painting with two coats of anti-corrosive paint and two coats of approved aluminium/synthetic enamel paint etc. complete as per drawings, specifications and directions of Engineer-in-Charge.				
248	4.0M clear opening width of gate in two panels.	3	Nos	1,50,000.00	4,50,000.00
249	Supplying & Laying interlocking Paver Blocks for roads, footpaths and any other place etc. including providing 50 mm thick sand filling below Paver Blocks including compaction of sand layer, filling the joints by dry sand, providing precast kerb stone of PCC M-20 at edges, including preparation of compacted sub-grade etc. all complete as per drawing, standard and directions of Engineer-in-Charge. (All material including cement supplied by contractor, paver blocks shall confirm to IS: 15658. cloour and shape of paver block shall be as per owner requirements for following thickness of paver blocks				
250	(Thickness - 60 mm)	385	M2	1,000.00	3,85,000.00
251	Supply and installation on terrace, high density polyethylene drinking water circular tank as per IS:12701 and ISI marked including supply and installation of all fittings, cover with suitable locking arrangement, float valve, making necessary holes for inlet, outlet and overflow connection and vent pipe etc. and the base supports for tank including supply of all necessary material all complete as per specifications and directions of Engineer-in-charge. (Sintex or equivalent having valid ISI license) for following capacities.				
252	capacity - 500 litre	2	Nos	5,000.00	10,000.00
253	Supplying, installation, testing and commissioning of Upflow Anaerobic Filter with bleaching tank as per TE Std. Drawing with all necessary accessories like, Upstream inlet CI piping from septic tank, Downstream outlet RCC NP2 class piping up to surface storm water drains, CI pipes for filter chamber, CI valve, RCC pre-cast pit covers, steps, perforated pre-cast slabs etc., inlet chamber, Filter chamber, deluding chamber including earthwork in excavation in all type of soil including soft rock, backfilling with murrum or approved soil arranged by the contractor, disposal of surplus earth etc. complete as per drawings, specification and direction of Engineering-Charge (All materials including cement shall be supplied by the contractor, Brick Class lower than 5.0 shall not be used). - Upto 10 Nos. user	1	Nos	25,000.00	25,000.00
254	**DEMOLISHING AND DISMANTLING**				
255	**Brickwork**				

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256	Demolishing BRICKWORK (taking all necessary safety precautions) for all depths below plinth level including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	1,000.00	10,000.00
257	Demolishing BRICKWORK (taking all necessary safety precautions) for all heights above plinth level including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	2,000.00	20,000.00
258	**RCC**				
259	Demolishing RCC WORK (taking all necessary safety precautions) for all depths below plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	2,000.00	20,000.00
260	Demolishing RCC WORK (taking all necessary safety precautions) for all heights above plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	2,000.00	20,000.00
261	**PCC**				
262	Demolishing PLAIN CEMENT CONCRETE work (taking all necessary safety precautions) for all depths below plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc. disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation and backfilling shall be paid separately under relevant items)	10	cum	1,500.00	15,000.00
263	**MISCELLANEOUS ITEMS (REFER TE SPECIFICATION)**				
264	Sand Filling				
265	Supplying and filling approved SAND of specified quality under floors, in foundations, plinths, tank foundations etc. for all depths and heights including cost of sand,royalties,transportation to site for all leads and lifts, including loading, unloading, spreading in layers of loose thickness not exceeding 150 mm,watering,ramming,compacting with mechanical compactors and/or other equipment to the specified levels to achieve 85% relative density as per IS:2720 Part XIV,including preparation of subgrade to the required slope, providing testing apparatus and testing the degree of consolidation all complete as per drawings, specifications and direction of Engineer-in-charge. The rates shall be inclusive of the cost of all labour,material,equipments etc. all complete .	120	cum	1,200.00	1,44,000.00
266	**SAND GRAVEL MIX**				
267	Supplying and filling sand gravel mix (1:1) with approved aggregate below road, RCC pavement, manholes, pits, foundations, bedding of UG piping etc. in layers of 150 mm loose thickness (maximum) including watering, ramming, rolling, compacting to achieve 85% relative density as per IS 2720 Part-XIV, quarrying, royalties, transportation, handling, etc. all complete as per drawings, specifications and directions of Engineer-in- Charge. (The rate shall be inclusive of the cost of all labour, material, equipment etc. all complete)	122	cum	2,000.00	2,44,000.00
268	**GROUTING WITH NON-SHRINKABLE COMPOUND**				
269	Providing and laying manually or by pumping at all positions a ready mix non-shrink cementitious grout of compressive strength specified below for specified works e.g. pipe support, base grouting of rotating equipment and other installation complete in all respects as per scope of work, detailed construction drawings , technical specifications and directions of the Engineer-In-Charge.				
270	Having compressive strength of 30 N/mm2 , Per bag of 25 Kg	100	Bags	3,000.00	3,00,000.00
271	Having compressive strength 45 N/mm2 , Per bag of 25 Kg	20	Bags	4,500.00	90,000.00

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272	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains, SS trench of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.	10	SQM	1,200.00	12,000.00
273	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, leve and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	17	M3	12,000.00	2,04,000.00
274	Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M-25, of size 1000x450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos. cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of the Engineer-In-Charge.	630	EACH	1,200.00	7,56,000.00
275	**Borewell and recharge well**				
276	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job all complete as per drawing, direction of Engineer -in-charge, in all types of soil :	130	M	1,500.00	1,95,000.00
277	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge.	130	M	1,500.00	1,95,000.00
278	Providing and fixing Bail plug/ Bottom plug of required diameter to the bottom of pipe assembly of tubewell as per IS:2800 (Part-I). :150mm dia	3	EACH	500.00	1,500.00
279	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	1,500.00	7,500.00
280	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	1,500.00	7,500.00
281	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	1,500.00	7,500.00
282	Gravel packing in tubewell construction in accordance with IS:4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of the Engineer-In-Charge.	3	M3	1,800.00	5,400.00
283	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS:4270, of reputed & approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size dia having minimum wall thickness 5.00 mm	5	M	2,000.00	10,000.00
284	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	60	M	1,000.00	60,000.00
285	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/ 3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS:8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	25	M	2,100.00	52,500.00
286	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of 150 mm diameter	1	Nos	300.00	300.00
287	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS:2800 (Part-I), including necessary bolts & nuts of required size complete 150 mm diameter.	1	Nos	2,000.00	2,000.00

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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288	Supply, Installation and commissioning of 1.5HP Borwell Submersible Pump	1	EACH	10,000.00	10,000.00
289	Supply and Installation of 3Cx10Sqmm Copper Flat Cable	200	M	300.00	60,000.00
290	**LANDSCAPING**				
291	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment).	810	M3	500.00	4,05,000.00
292	Fine dressing of the ground.	2700	M2	20.00	54,000.00
293	Providing & laying Selection no. 1 grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden and than rolling the surface with light roller make the surface smoothen and light watering the same maintenance for 30 days or more till the grass establish properly,as per direction of officer in charge	2700	M2	100.00	2,70,000.00
294	Conducting topographical ground/land survey in the specified area as shown in the tender drawings by conventional/GPS or any other standard method, covering details of physical features like Rivers, Nallahs, Lakes, Ponds, wells, pits, Forest, Trees, Roads, culverts, transmission lines, telegraph/ telephone and electric poles, underground or any other services, cross drainage works including cross sectional details of nallah etc. including establishing high flood level with source of information, identification of any monument, historical structure, wild life sanctuary in the vicinity, storm water disposal point with levels, cross-section details of nallah, recording spot levels, top level of nearest state highway or National Highway, including providing in tabulation girth wise no. of trees etc as specified, plotting and developing topographical contour maps, showing true north including establishing survey reference stations, key plan etc. including all equipment's, instruments, personnel's, clearing of bushes as per requirement for intervisibility to carry out survey work etc. , complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of drawings/map and supply of electronic files. Note: Survey work shall be carried out by survey agency approved by Contractor and sample spot witness of levels cordinates by PMC, and shall be submitted to PMC/Owner for review.Survey drawing will be provided in A0 size with clear visibility of all the spots/levels/ contoure and Bench marks. Permanaet bench mark will be stabished at site in a 450x450 mm size 600mm high bick masonry piller.	6950	M2	50.00	3,47,500.00
295	**GEO TECHNICAL INVESTIGATION (Z/02/0022)**				
296	Conducting soil investigation with boring including all field tests and laboratory tests, mobilization and demobilization of equipments & personnel etc. for soil investigation for each borehole location. complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of Reports & recommendations and supply of electronic files.	5	Nos	50,000.00	2,50,000.00
297	**ANTI-TERMITE TREATMENT**				
298	Supplying chemical emulsion in sealed containers including delivery as specified in the Technical Specifications.				
299	**Chlorpyriphos/ Lindane emulsifiable concentrate of 20%**	200	LITRE	250.00	50,000.00
300	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
301	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc. as per Techinal specifications and direction of engineering in charge: With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	80	METRE	35.00	2,800.00
302	Treatment of soil under floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the floor:				
303	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	250	SQM	300.00	75,000.00
304	Supply and installation 60mm dia GI pipe for column support of gate	15	M	1,000.00	15,000.00
305	Supply and installation 100mm dia MS pipe	15	M	1,500.00	500.00

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306	Supply and installation 50mm dia MS pipe	15	M	1,000.00	15,000.00
307	Supply and installation of U-PVC pipes (working pressure 4 kg / cm²) Single socketed pipe 75 mm dia for weep holes	300	M	150.00	45,000.00
308	**Sub-Total Section C**				**7,12,49,600.00**
309	**SECTION-D [CATHODIC PROTECTION WORKS]**				
310	**Cathodic Protection system**				
311	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning & Monitoring of the temporary cathodic protection [TCP] system using galvanic anodes to protect the external surface of the pipeline against soil-side corrosion for minimum 2 year or till commissioning of permanent CP system whichever is later . All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard drawings and vendor list as attached with this tender and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	40,00,000.00	40,00,000.00
312	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning of permanent cathodic protection system for 40 years. The scope of work also includes post commssoning surveys and repair of coating/ rectification of cathodic protection system based on the post commissioning surveys. In additon to the same, AC Interference study on the pipelines to be performed and mitigation measures takes to the satisfaction of Owner/ CONSULTANT. All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard and vendor list attached and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	50,00,000.00	50,00,000.00
313	**Sub-Total Section D**				**90,00,000.00**
314	**SECTION-E [ELECTRICAL WORKS]**				
315	**ELECTRICAL**				
316	**SWITCH BOARDS / UPS SYSTEM/ PANEL**				
317	Supply , Installation, testing and commissioning of LT Switch-boards, AC UPS system with UPS Distribution board & Ni-Cd Battery banks , distribution boards, cubicles with electrical equipment, misc. electrical panels etc., including transportation from store/yard to site at the place of installation, unpacking, assembly, including mounting and wiring of loose parts supplied by equipment vendor, interconnection of shipping sections and requisite inter-panel wiring between shipping sections, including supply of all wiring materials, installation on foundations or fixing to wall or steel structures, aligning, levelling, grouting, including all labour and materials, as per approved drawings, specifications of this tender and directions of Engineer-in-Charge.				
318	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted MEDB	2	Nos	6,93,000.00	13,86,000.00
319	Supply , erection , termination , earthing and commissioning of wall mounted OLDB as per single line diagram of DT stations	1	Nos	2,03,500.00	2,03,500.00
320	Supply , erection , termination , earthing and commissioning of wall mounted ILDB as per Single line diagram of DT stations	1	Nos	1,48,500.00	1,48,500.00
321	Supply , erection , termination, earthing and commissioning of wall mounted SSDB as per Single line diagram of DT stations	1	Nos	1,79,300.00	1,79,300.00
322	Supply , erection , termination , earthing and commissioning of wall mounted AC DB as per Single line diagram of DT stations	1	Nos	1,81,500.00	1,81,500.00
323	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 6 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of DT stations	1	SET	16,50,000.00	16,50,000.00
324	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for DT stations.	1	SET	49,50,000.00	49,50,000.00

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325	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 1 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of RT stations	1	SET	11,00,000.00	11,00,000.00
326	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for RT stations.	1	SET	8,91,000.00	8,91,000.00
327	Supply , erection , and commissioning of 415 V SFU as per Single line diagram of DT stations including liasioning with SEB as per Tender specification and direction of Engineer- In charge.	1	Nos	36,740.00	36,740.00
328	**POWER AND CONTROL CABLE**				
329	Supply , laying , termination , erection and testing of 1.1 KV Power and control FRLS PVC Outersheath, XLPE insulated, armored Cables . Outdoor cable will be laid in buried cable trench and in Indoor cable will be laid in Cable trench by provision of Cable tray and supports inside the trench as per PTS - Electrical package P.017110 G 11077 E002				
330	3.5C x 95 sqmm AL FRLS XLPE	300	M	1,269.40	3,80,820.00
331	3.5C x 70 sqmm AL FRLS XLPE	100	M	1,025.20	1,02,520.00
332	3.5C x 50 sqmm AL FRLS XLPE	50	M	785.40	39,270.00
333	3.5C x 25 sqmm AL FRLS XLPE	100	M	**559.90**	55,990.00
334	4C x 16 sqmm CU FRLS XLPE	100	M	1,686.30	1,68,630.00
335	3C x 2.5 sqmm CU FRLS XLPE	170	M	435.60	74,052.00
336	3C x 6 sqmm CU FRLS XLPE	250	M	676.50	1,69,125.00
337	4C x 6 sqmm CU FRLS XLPE	350	M	851.40	2,97,990.00
338	2C x 6 sq.mm CU FRLS XLPE	100	M	537.90	53,790.00
339	2.5 sqmm Cu. Wire	1800	M	63.80	1,14,840.00
340	6 sqmm Cu. Wire	600	M	103.40	62,040.00
341	**Earthing & Lightning**				
342	Supply , Installation , testing and comissioning of GI Earth electrodes & Cu plate type earth pit complete with earth pit as per IS 3043, PTS-Electrical package and all necessary material including exacavation of earth pit , filling with charcol and salt , back filling, brick work , connections including all labour and materials as approved drawing and specification of this tender and direction of Engineer-In charge.				
343	**GI Earth Electrodes**				
344	65mm dia x 3000 mm L GI pipe electrode type Earth pit	15	Nos	23,650.00	3,54,750.00
345	**Cu plate Earth Electrode**				

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346	600x600x3mm Cu plate type Earth pit	8	Nos	29,150.00	2,33,200.00
347	**Earth strip and wire**				
348	50x 6 mm GI Flat strip	850	M	495.00	4,20,750.00
349	25 x 6 mm Cu Flat strip	50	M	1,595.00	79,750.00
350	2.5 Sqmm Cu wire	250	M	38.50	9,625.00
351	25 x 6 mm GI Flat strip	200	M	275.00	55,000.00
352	10 Sq.mm earthing cable	250	M	99.00	24,750.00
353	GI Earth Bus 50x 6 Sq.mm with all installation assesories	3	Nos	1,485.00	4,455.00
354	Cu. Earth Bus 50x 6 Sq.mm with all installation assesories (in control room)	4	Nos	4,950.00	19,800.00
355	25x3 mm GI Flat for Lightning as well as down conductors for DT station as per overall earthing layout and GGNG-E-20713-3007	80	M	148.50	11,880.00
356	Other lightning assesories like 20mm dia copper rod, hollosphere ,200x200x6mm ms plate ,anchor/fastner ,test links for DT station as per overall earthing layout and GGNG-E-20713-3007	1	LOT	49,500.00	49,500.00
357	**OUTDOOR Lighting**				
358	Supply , erection , Testing & commissioning of Outdoor area lighting system including with supply of flameproof / weather proof light fixture , pole , junction box and earthing including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender & Overall outdoor lighting layout of DT & RT station and directions of Engineer- In charge.				
359	100W FLP LED Fixture & FLP Junction box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	4	Nos	29,700.00	1,18,800.00
360	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	2	Nos	1,98,000.00	3,96,000.00
361	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in RT Stations.	7	Nos	2,03,500.00	14,24,500.00
362	1x160W FLOOD LED Fixture with weather proof junction box & 9 mtr high pole with all assesories for open area	9	Nos	46,629.00	4,19,661.00
363	1x70 W Solar type Street LED Fixture with weather proof junction box, VRLA Battery (72 hrs backup time) & 9 mtr high pole for street lighting	6	Nos	1,10,000.00	6,60,000.00
364	1x27 W Post Top Lantran LED Fixture for Gate with weather proof junction box for Gate lamp	2	Nos	7,150.00	14,300.00
365	1x36 W LED industrial fixture suitable to building parapet /wall with all assesories like weather proof junction box/clamp/reducer/	2	Nos	1,980.00	3,960.00
366	**INDOOR Lighting**				
367	Supply, erection, Testing & commissioning of Indoor building area lighting system including with supply of light fixture, point wiring including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender and directions of Engineer- In charge.				

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368	2x20 W LED recessed decorative fixture for control room	5	Nos	7,150.00	35,750.00
369	2x20W LED Industrial Fixture for Electrical room	2	Nos	3,960.00	7,920.00
370	1x40W LED Flameproof Fixture for Battery room	1	Nos	16,830.00	16,830.00
371	2x18W LED Industrial Fixture for Varanda/Toilet/ water cooler area/ Guard room	6	Nos	3,960.00	23,760.00
372	1x36W LED Industrial Fixture	4	Nos	2,365.00	9,460.00
373	2x20 W LED recessed decorative fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) control room.	2	Nos	7,150.00	14,300.00
374	2x20W LED Industrial Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Electrical room	2	Nos	17,930.00	35,860.00
375	1x40W LED Flameproof Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Battery room	1	Nos	14,850.00	14,850.00
376	**Switch socket**				
377	Supply and Installation of single/ three phase Switch socket as per Indoor Illumination layout for DT & RT and PTS-Electrical Package and directions of Engineer-In Charge				
378	5/15A surface type switch socket (1 Ph)	7	Nos	495.00	3,465.00
379	5A flush type switch socket (1 Ph)	4	Nos	165.00	660.00
380	16A Switch socket (I Ph)	3	Nos	2,750.00	8,250.00
381	20A Switch socket for AC (1 Ph)	4	Nos	4,950.00	19,800.00
382	Flame proof Junction box for Exhaust fan in Battery room	2	Nos	15,950.00	31,900.00
383	32A Switch socket for welding receptacles (3 Ph)	1	Nos	10,120.00	10,120.00
384	Modular switch board	12	Nos	660.00	7,920.00
385	**FANS and Exhaust FAN**				
386	Supply ,Installation and testing of Ceiling Fan and Exhaust fan with louvers including all labours and materials as per Indoor Illumination layout for DT and PTS-Electrical Package and directions of Engineer-In Charge				
387	Ceiling Fan 230V AC 1200 mm sweep	3	Nos	3,960.00	11,880.00
388	450 mm FLP Exhaust Fan for Battery room	2	Nos	15,950.00	31,900.00
389	200 mm Exhaust Fan for Toilet	1	Nos	7,920.00	7,920.00

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390	300 mm Exhaust Fan for Electrical room/ CO2 room	3	Nos	10,120.00	30,360.00
391	**Air conditioning unit**				
392	Supply ,Installation and testing of Five star 1.5 Ton Split AC with outdoor compressor unit including all labours and materials as per Typical Indoor Illumination layout for DT and directions of Engineer-In Charge				
393	Split Air condition Five star 1.5 Ton	4	Nos	1,01,200.00	4,04,800.00
394	**Hardware and other Accessories**				
395	Supply and Installation of Hardware and other accessories including all labours and materials as per Tender specification PTS-Electrical Package P.017110 G 11077 E002 and directions of Engineer-In Charge				
396	Rubber mat	15	M	1,485.00	22,275.00
397	Rubber hand gloves	1	PAIR	495.00	495.00
398	Warning Marker	1	Nos	2,970.00	2,970.00
399	PVC Conduit with bend ,tee and other required assesories	1	LOT	2,75,000.00	2,75,000.00
400	CAUTION Board & Sock treatment chart	1	Nos	275.00	275.00
401	Cable route marker as per Standard drawing TE-IN-STD-G-0327	1	LS	3,960.00	3,960.00
402	Fire extingusher and SAND Bucket with Stand	1	SET	7,150.00	7,150.00
403	Ladder type Cable tray - hot dip Galvanized Prefabricated 450 mm wide	55	MTR	1,485.00	81,675.00
404	Perforated type Cable tray hot dip Galvanized Prefabricated 450 mm wide	35	MTR.	1,815.00	63,525.00
405	**Cable Glands**				
406	Cable Glands : Flame proof IIA/IIB double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
407	Cables with upto OD 20 mm & above OD 20 mm as per Single line diagram of DT & RT station	1	LOT	1,37,500.00	1,37,500.00
408	Cable Glands : Weather proof double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
409	Cables with upto OD 20 mm to 40 mm as per Single line diagram of DT & RT station	1	LOT	1,57,300.00	1,57,300.00
410	**Sub-Total Section E**				**1,80,26,118.00**
411	**SECTION-F [INSTRUMENTATION WORKS]**				

Prepared Checked Approved

TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. VICHITRA CONSTRUCTIONS PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
412	**INSTRUMENTATION**				
413	**SUPPLY**				
414	Supply of Pressure Transmitter along with 2 valve manifolds with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	77,357.50	3,86,787.50
415	Supply of Pressure gauge including high range along with 2 valve manifolds with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	18	Nos	35,750.00	6,43,500.00
416	Supply of Pressure gauge including Low Range along with 2 valve manifolds, gauge saver with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	3	Nos	29,700.00	89,100.00
417	Supply of temperature element (RTD) along with flanged thermowell mounted for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	29,700.00	1,48,500.00
418	Supply of Temperature Transmitter with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	7	Nos	61,600.00	4,31,200.00
419	Supply of skin type temperature element (RTD) for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I003), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	2	Nos	20,900.00	41,800.00
420	Supply of Local control panel with all accessories as per Data sheet (P.017110 G 11087 I011), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, SAT of local control panel,supports/ frame fabrication, earthing and screwing plug for unused entries, painting and integration with RTU. Termination of all Other panel SCADA hard wired signal including RS-485 signals through LCP for RTU/SCADA by Bidder. 1. Digital Barriers 2. Analog Barries 3. Relays 4. three poisition selector switch 5. LED indication lamps 6. Push buttons 7. terminal blocks 8. internal wiring 9. MCBs 10. Door switches 11. cooling Fan 12. LED lights	2	Nos	5,50,000.00	11,00,000.00
421	Supply of Ex-proof junction box with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, iincluding Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.	4	Nos	39,600.00	1,58,400.00
422	Supply of Corrosion Monitoring system with corrosion coupon, Corrosion probe, transmitter and digital indicator (mounted in LCP) as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. VICHITRA CONSTRUCTIONS PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
423	Corrosion coupon along with accessories.	2	Nos	4,40,000.00	8,80,000.00
424	Corrosion probe along with transmitter, digital indicator, barriers and accessories.	2	Nos	3,30,000.00	6,60,000.00
425	Supply of Conventional Type Microprocessor based fire detection system along with smoke detector, heat detector, cabinet, manual call point, Independent 24 Hrs battery backup with 15 min in alarm state, repeater panel and Electrical Operated Siren, exit signs and cables fromsensor ,MCP, siren, hooter to controller as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
426	Controller along with cabinet along with cabling	1	Nos	3,85,000.00	3,85,000.00
427	Multisensor (smoke & heat)	10	Nos	5,940.00	59,400.00
428	WP IP 65 Manual call points	6	Nos	7,920.00	47,520.00
429	Ex Proof and WP IP 65 Manual call point	1	Nos	10,120.00	10,120.00
430	WP Hooter & Flasher	1	Nos	39,600.00	39,600.00
431	Repeater panel	1	Nos	1,65,000.00	1,65,000.00
432	Exist sign	6	Nos	4,675.00	28,050.00
433	Electrical siren Exd	1	Nos	32,120.00	32,120.00
434	24 Hrs battery backup	1	Nos	30,800.00	30,800.00
435	Supply of Conventional type gas detection system along with controller, ex proof point gas detectors, beacon hooter, flasher, , cabinet, portable gas detector, calibration kit, alignment kit as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
436	Controller with cabinet	1	Nos	9,35,000.00	9,35,000.00
437	Point gas detectors	12	Nos	1,76,000.00	21,12,000.00
438	Panel Mounted hooter	2	Nos	7,150.00	14,300.00
439	Dual tone Hooter & Beacon Ex"d" with reset push button	2	Nos	23,650.00	47,300.00
440	Portable gas detecotrs	1	Nos	1,37,500.00	1,37,500.00
441	Calibration kit	1	Nos	1,59,500.00	1,59,500.00
442	Ex d Junction Box	2	Nos	28,600.00	57,200.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. VICHITRA CONSTRUCTIONS PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
443	Supply of Universal type Hand Held Configurators for transmitters with carrying case, rechargeable batteries (one working and one standby), and battery charger as per Data sheet,PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work	1	Nos	6,49,000.00	6,49,000.00
444	Supply of Instrumentation signal cable, control cable, communication cable/LAN cable, Power cables along with all sizes cable glands (WP & Exd), PVC hood, lug, ferrule, etc including Cable laying (buried as well as tray) along with termination, glanding, meggering and loop checking including supply of ferrule, lugs, cable tie, cable clamp, cable marker etc. as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.				
445	1Px 1.5mm2	500	MTRS	261.80	1,30,900.00
446	12Px 0.5mm2	900	MTRS	1,270.50	11,43,450.00
447	1Qx1.5mm2	30	MTRS	363.00	10,890.00
448	12Tx1.5mm2	200	MTRS	1,987.70	3,97,540.00
449	1Tx1.5mm2	180	MTRS	278.30	50,094.00
450	6Px0.5mm2	200	MTRS	629.20	1,25,840.00
451	2Px1.5mm2	200	MTRS	495.00	99,000.00
452	Cat 5 (LAN)	160	MTRS	256.30	41,008.00
453	3C x 2.5mm2	240	MTRS	363.00	87,120.00
454	Supply & laying of Instruments cable tray with tray cover (Branch Cable tray (50mm x 50mm), Main cable tray 900 mm, cable tray 300mm, cable tray 150 mm.) as per requirement, instruments/ PGD, CCTV/ mounting poles, instrument protection sun sheds, angles, channels, MS plates & all the erection materials and as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including installation of support, cable clamping, installation of tray cover and support painting.	1	LS	5,94,000.00	5,94,000.00
455	Supply , installation & laying of tubes and fittings as per requirement and as per PTS-Instrumentation with appendices and Scope of Work C&I. SS 316L TEE (1/2", Class 3000#, Screwed, NPTF, Seamless) ,SS316L GLOBE/BALL VALVE (1/2", Class 800#, Screwed, NPTF, Seamless), SS316L PLUG (1/2", Screwed, NPTM, Hex head, class 3000#), SS316L PIPE NIPPLE (½" NPTM, seamless, schedule #160) Length of the pipe nipple as per requirement, SS316L MALE CONNECTOR (1/2" OD x 1/2" NPTM), SS316L FEMALE CONNECTOR (1/2"OD x 1/2" NPTF), SS316L UNION (1/2" OD), SS316L TUBE (1/2" OD x 0.065" WT), SS316L TUBE (1/4" OD x 0.035" WT)	1	LS	6,93,000.00	6,93,000.00
456	Supply of mandatory spares as per Mandatory Spare **(P.017110 G 11075 I001)**	1	LS	4,95,000.00	4,95,000.00
457	**AT Bokaro** Installation of metering skids, metering cabinet under the supervision of skid supplier, cable laying and terminal of cable from skid junction box to metering system cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	5,50,000.00	5,50,000.00
458	**AT Bokaro** Installation of gas chromatograph skid, analyser & controller cabinet under the supervision of skid supplier, cable laying and terminal of cable from analyser cabinet to controller cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	5,50,000.00	5,50,000.00
459	**AT Bokaro** Installation of H2S & Moisture analyser skids, cabinet under the supervision of skid supplier, laying and terminal of cable from skid field mounted cabinet to LCP/RTU. Including supply of all the required erection, fabrication and civil materials.	1	LS	5,50,000.00	5,50,000.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. VICHITRA CONSTRUCTIONS PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
460	**Sub-Total Section F**				**1,49,66,539.50**
461	**SECTION-G [TELECOM WORKS]**				
462	**AT SV 01** Supply of Input out puts cards in existing Remote Terminal unit along with internal wiring at site and configruation of new parameters in existing RTU as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, Installation of Input out puts cards in existing Remote Terminal unit along with internal wiring at site, interfacing with LCP and configuration of new parameters in existing RTU, as per Scope of Work at SV 01				
463	32 channels digital input cards	1	Nos	27,500.00	27,500.00
464	16 Channel digital output cards	1	Nos	27,500.00	27,500.00
465	12 channel Analog input cards	1	Nos	23,650.00	23,650.00
466	Supply Telecommunication system, SDH equipment STM-4 Based SDH Cabinet of (2000H x 800W x 800W along with 100 mm base frame) as per below configuration: - 2*STM-4 + 2*STM-1 + 8FE ports as per PTS-Telecommunication system (P.017110 G 11077 I002), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including erection, testing, integration with existing NMS at Noida, Commissioning and integration with existing telecom system at SV 01 additional SFP of L4.2 for SV 01 connectivity	1	Nos	1,01,200.00	1,01,200.00
467	Supply of CCTV-IP based Fixed colour camera and PTZ colour camera along with power cable, communication cable at each station as per PTS-Telecommunication system (P.017110 G 11077 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work., including erection, testing, integration with existing VMS at Noida, Commissioning and integration with existing telecom system at SV 01				
468	Fixed Camera WP IP65	1	Nos	1,48,500.00	1,48,500.00
469	PTZ camera WP IP65	1	Nos	7,15,000.00	7,15,000.00
470	Supply of one Analog phones control room, one number in guard room and one number WP IP66 in field safe area as per PTS-Telecommunication system (P.017110 G 11077 I002) , PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work				
471	Analog Phone	2	Nos	2,310.00	4,620.00
472	Analog Phone Ex Proof WP IP 65	1	Nos	89,100.00	89,100.00
473	FXO cards	1	Nos	71,500.00	71,500.00
474	FXS	1	Nos	71,500.00	71,500.00
475	Five pair armoured telephone cable, size 0.5mm2	100	MTR	467.50	46,750.00
476	**AT Bokaro** Free issue RTU by GAIL: Transportation from Gail store to site location, installation, cabling from LCP to RTU, commissioning etc. Erection, installation of RTU inside the station control room including supply of all the required erection materials, fabrication and civil works	1	LS	7,15,000.00	7,15,000.00
477	**Sub-Total Section G**				**20,41,820.00**
478	Total of Section A + B + C + D + E + F + G				**26,71,82,077.50**

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. VICHITRA CONSTRUCTIONS PVT. LTD.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
479	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Total of Section A + B + C + D + E + F + G above	18	percentage		4,80,92,773.95
480	Rate of Extended Stay Compensation per month beyond the time schedule and grace period mentioned in Bidding document for reasons solely attribute to Owner (exclusive of GST) Notes:- 1;- Extended Stay Compensation shall be loaded on the quoted price as per evaluation methodology. 2;- In case, no rate for extended stay compensation is stipulated, it will be considered that extended stay compensation is not required by the Bidder and the rates quoted by them shall be valid till completion of works in all respects.	1	Nos		10,000.00
481	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Extended Stay Compensation at Sl. No. 480 above	18	percentage		1,800.00
	Grand Total				31,52,86,651.45

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Checked

Approved

TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Adorn Infra Energy Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
				UNIT RATE	TOTAL RATE
1	**SECTION-A (MAIN LINE WORKS)**				
2	**CH.0.00 KM to CH.5.667 KM**				
3	**MAINLINE, PIPING AND MECHANICAL**				
4	PIPELINE LAYING / INSTALLATION Laying/ installation of coated line pipe, associated fittings and accessories, etc. as per specifications, drawings, other provisions of Contract and instructions of Engineer-in-Charge, including but not limited to carrying out the following: "Receiving and taking-over", handling, loading, transportation and unloading of Owner supplied coated and bare line pipes and other Free Issue Materials from Contractor's own stock-yard to Work site including stringing on the pipeline Right-of-Use (ROU), Arrangement of all additional land required for Contractor's storage, Performing the additional survey wherein survey data is not sufficient in the opinion of Contractor, arrangement of working RoU if RoU width is not sufficient for equipment/ vehicle movement etc., access for construction (other than Owner provided ROU; Developing necessary access way to the worksite, including earth filling, levelling, etc.; supply of all materials (except Owner supplied materials), supply of all materials, consumables, equipment, labour, etc.; fabrication, Staking and installation of construction markers, clearing, grubbing, grading (as required) of Right of Use; clearing and grading of ROU; Cutting/ uprooting of shrubs, plants, vegetation within ROU; , Trenching to all depths and to a width to accommodate the pipeline with optical fiber cable (inside HDPE Duct) by excavation in all types of soil (in case of hard rock, additional payment for hard rock breaking will be paid as per separate SOR line item), including additional trenching for seismic and other areas as specified,(Rate for laying of optical fibre cable and HDPE Duct not be included here and same to be quoted against separate SOR item); Carrying out repairs of pipe and coating defects not attributable to Owner; Thorough internal cleaning of all pipes by suitable methods to remove debris, shots, grits etc.; Stringing of line pipes along ROU including providing straw bags, soft padding/sand padding; Aligning, cold field bending, cutting and beveling (as required) of pipes for welding and field adjustments, NDT & NDT of re-beveled area, welding, carrying out destructive & non- destructive testing of welds required as per approved NDT specifications (including radiography) and providing all requisite equipment, labour, supervision, materials, films, consumables etc.; carrying out repairs of weld joints as required, carrying out re- radiography and other non-destructive tests on repaired joints, etc.; Installation of carrier pipe including concrete coated pipes (wherever required).				
5	(Concrete Coating on pipes, covered separately) at all crossings including roads/ canals/ nala/ water crossings etc. (supply and installation of casing pipe by open cut or by Jacking/ boaring method covered separately) including pre-testing as required; Carrying out installation of carrier pipe in the casing pipe at cased crossings; Coating of all field weld joints, long radius bends (fabrication of Cold field bends covered here and fabrication of 6D bends by induction heating covered separately), buried fittings etc.; Supply & Installation of warning tape along the entire length of Pipeline including Crossing. Lowering the pipelines in trench, providing required padding over and around the pipeline with sand/graded material (in rocky areas), backfilling with available approved excavated material and/or other suitable soil (supply and providing of soft soil for pre & post padding in Rocky area); Supply and installation of slope breaker as per specifications and drawings in steep slope areas, wherever required; Carrying out hydrostatic testing including air cleaning, flushing, filling, gauging, pressurization of complete pipeline in various test sections as approved by Engineer-In-Charge to the specified test pressure, providing all equipment, pumps, fittings, instruments, dead weight tester, all types of pigs etc., and services, supervision, labour, consumables, arranging water required for hydrostatic testing including supply of corrosion inhibitor, air, etc. as required, locating of leaks and rectification of defects attributable to Contractor, re-testing after rectification, successful completion of hydro-testing of pipeline (De-watering covered else where in the SOR); including all tie-in(s) with the pipeline/ piping installed by others including cutting of test header, re- beveling as required; Carrying out all temporary, ancillary, auxiliary works and all incidental works required to make the pipeline ready for pre- commissioning; Carrying out EGP for the entire stretch of completed pipeline, Repair of defects recorded during EGP/gauge plate run or otherwise including cutting, beveling, welding, NDT, field joint coating etc.; as applicable, Final clean-up and restoration of right of use including obtaining NOC from respective statutory authorities as required and disposal of debris and returning all surplus material to designated disposal areas/storage yard, as directed by Engineer-In-Charge; Restoration of land, facilities and boundary wall etc. at associated facilities dismantled/damaged by the Contractor during construction; Obtaining work permits/ NOC from various statutory authorities having jurisdiction and complying with all stipulation/conditions/recommendation of the said authorities; Preparation of as-built drawings, pipe-book and other records. SOR shall be read in conjunction with Project drawings, scope of work, specifications, standards and other provisions of contract document. The work includes the Survey data & site preparation, Stringing/Chainges in direction, Beveling of pipe element, Welding Procedure Qualification & Welders Qualification, Welding of pipe element, Inspection & testing of production welds, Field joint coating, controlled blasting, chiseling, etc., Material hand over & material handling, Lowering-in & ballasting, All crossings except HDD as mentioned in Crossing List (including installation of carrier pipe inside the Casing at cased crossing) Backfilling (for all depths in all types of soil, soft /hard rock) including trench padding with sand, graded earth in rocky areas & rock shield(if required as per specs) reinstatement				
6	All above works shall be executed in accordance with scope of work, GTS, PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. 1. Supply and Installation of OFC and HDPE Ducts along the entire pipeline route, adjacent to the new pipeline, along with all required accessories, fittings and associated items, is covered separately in the SOR. All above works for buried pipeline (including hook-up pipeline from Tap Off Point inside ONGC GCS, Jharia upto proposed plot for GAIL DT), as per following details :				
7	ND 8", API5L X60 - 6.4 mm	4250	M	1,950.00	82,87,500.00
8	ND 8", API5L X60 - 7.1 mm	1588	M	2,050.00	[illegible]400.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Adorn Infra Energy Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
9	Concrete slabs (Mechanical Protection) as per technical specifications Supply, fabrication and installation of reinforced concrete weights. Reinforced steel size should be 8 mm. top and bottom at a rate of 200 mm c/c of precasted RCC 1:2:4 on pipeline of wall thickness of 75 mm thick and size as per specifications & Standard drawings and instructions of Owner/ Owner's representative including supply of consumables, materials, equipment, labor, supervision, all associated civil works.	110	M	2,200.00	2,42,000.00
10	Continuous Concrete Coating Supply of all consumables and materials, equipments, manpower, submission of application procedure with calculations for anti-buoyancy, design mix procedure qualification and application of continuous concrete weight coating thickness mentioned below (higher also, in case design requirements) on pipeline of all thickness, concrete weight coating of the field joints thereof, and performing all works as per specifications and instructions of Owner/Owner's representative and other provisions of CONTRACT DOCUMENT.				
11	25 mm thick	12	M	1,900.00	22,800.00
12	30 mm thick	12	M	2,100.00	25,200.00
13	GEO TEXTILE BAGS FOR ANTI-BUOYANCY				
14	Additional works over and above item no. 4 to 8 for design, manufacture and supply of Non-biodegradable geo-textile bags and installation of geo-textile bags duly filled with gravel/ stone ballast on pipelines of all wall thicknesses for anti-buoyancy, drawings, scope of work and instructions of Engineer-in-Charge and other provisions of the Contract document.				
15	ND 8" (for all thicknesses)	12	M	2,200.00	26,400.00
16	Permanent Markers Supply, fabrication and installation of following types of permanent markers along the pipeline route including all associated civil works such as excavation in all types of soil, construction of pedestals and grouting with concrete, clearing, supply & application of approved color and quality of primer and paint, stencil letter cutting for numbers, direction, chainage, etc. restoration of area to original condition and performing all works as per drawings, specifications and instruction of Owner/Owner's Representative.				
17	Pipeline Warning Signs	14	Nos	6,500.00	91,000.00
18	Right-of-way boundary markers	22	Nos	1,550.00	34,100.00
19	Kilometer Markers	4	Nos	6,700.00	26,800.00
20	Aerial Markers	1	Nos	6,500.00	6,500.00
21	Directional Markers	69	Nos	6,500.00	4,48,500.00
22	Repair of Defects in Pipe Coating (Attributable to OWNER)				
23	Repair of Line Pipe Coating: Supply of all coating repair materials as per the requirements of the relevant specifications, supply of all consumables, utilities, equipment, and all manpower required, pipe cleaning and surface preparation, repairing of coating defects (resulting in holiday in coating) and testing including all handling, transportation, etc. for line pipes, performing all works necessary for the completion of the works strictly in accordance with the relevant specifications and instructions of OWNER.				
24	Repair of Holidays in Coating	20	Nos	650.00	13,000.00
25	Repair of Cosmetic Defects in Coating: Description of same as in item no 23 above, but for repair of cosmetic defects in coating.	30	m3	650.00	19,500.00
26	**Repair of Defects in Line Pipes**				
27	Repair of OWNER supplied pipes of all wall thicknesses, recorded at the time of taking-over by CONTRACTOR at all places of work.				
28	Cutting and rebevelling	15	Nos	2,500.00	37,500.00
29	Jack out method	15	Nos	3,500.00	52,500.00

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30	All works for locating burst (occurred during hydrostatic testing and tightness test attributable to Owner issued materials) including detecting burst, necessary repairing/replacing defective pipe lengths, including cutting out and removing the defective pipe, pretesting the replacement pipe, welding of replacement pipe into mainline and NDT of welding, repair and re-testing of defective welds, coating of welded joints, cleanup, retesting including providing all labor, materials, consumables and inputs other than OWNER supplied materials and performing all works as per drawings, specifications and directions of Owner/ Owner's representative. In case of pinhole leaks not easily detectable all works for locating leak (occurred during mechanical resistance test and tightness test attributable to Owner issued materials) including detecting leak, The Payment will be made as per actual efforts and based on Equipment and manpower Rate provided in SCC . Further replacement & retesting will be paid as above.	2	Per burst	75,000.00	1,50,000.00
31	LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER) (FOR TERMINAL PIPING) LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER DUE TO FIM) All works for leak/burst (occurring during hydrostatic testing) by necessary repair/replacement of defective pipe length, including cutting and removing out defective pipes, welding, NDT of welds, repair and re-testing of defective welds, painting of welded joints, clean-up, re hydro testing of the pipe segment including providing all necessary equipment, labour, materials, consumables and inputs other than Owner supplied materials and performing all works as per drawings, scope of work, specifications, standards enclosed with the Contract and directions of Engineer-in-Charge. Note: 1. This rate shall be applicable for manufacturing defects in Company supplied materials only.	6	Inch-meter	5,500.00	33,000.00
32	IDLE TIME PRESERVATION OF PIPELINE Preservation of complete pipeline and associated facilities and its maintenance including supply of all consumables, all equipment, man- power, etc., complete as per the requirements of specifications, scope of work, standards, other provisions of Contract document and instructions of Engineer-in- Charge. By filling and pressurizing with nitrogen including supply and maintenance of nitrogen as per following details:				
33	Pipe OD - 8 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - 3 MONTH	6030	M	22.00	1,32,660.00
34	Pipe OD - 8 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - FOR EVERY ADDITIONAL MONTH BEYOND INITIAL 3 MONTHS	6030	M	8.00	48,240.00
35	**PRE-COMMISSIONING FOR NATURAL GAS PIPELINES SYSTEM, Carrying out pre-commissioning activities and pre-commissioning checks to the specified acceptance criteria, making the entire pipeline system ready for commissioning (It includes cleaning including magnetic cleaning, Electrical Geometrical Pigging survey, dewatering, swabbing,, pre-drying activity, Golden-tie ins connecting the stations),, supply of all equipment, man-power, consumables, including all type of pigs and required quantity of nitrogen, materials for all temporary works and performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.**				
36	Pipe OD - 8 INCH	6030	M	15.00	90,450.00
37	**Commissioning Assistance**				
38	OVERALL COMMISSIONING OF ENTIRE PIPELINE SYSTEM Overall commissioning including system checks, inertisation (as required) and charging of entire pipeline system, including all stations and all associated facilities including notifying the Company that the pipeline system is ready for commissioning; Review of status jointly with the Company and obtaining final clearance for start of commissioning; Development and submission of commissioning procedures, obtaining Company approval thereupon, carrying out overall commissioning of the total pipeline system including all facilities and all necessary coordination/ liaison with other Contractor(s) operations; Carrying out commissioning; Supply of all equipment like Nitrogen vapourisers (as required), along with all piping and instruments, temporary venting/ flaring/draining facilities as applicable, man-power, consumables including pigs and required quantity of Nitrogen (as required); Performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.				
39	Pipe OD - 8 INCH	6030	M	40.00	2,41,200.00
40	PIPELINE INFORMATION MANAGEMENT SYSTEM Providing pipeline information management system using web based software for monitoring pipeline construction progress and providing all "As Built" data & drawings for entire length of pipeline as per specifications enclosed with the tender document.	1	LS	2,50,000.00	2,50,000.00
41	VIDEO FILM & PHOTOGRAPHY OF CONSTRUCTION ACTIVITIES Preparation of high resolution video films with audio commentary and Industrial photography covering all aspects/activities of pipeline construction annotated as required, conversion of same to video DVD/Blue Ray format, submitting three (3) sets of the same as per details in scope of work document	1	LS	75,000.00	75,000.00
	FABRICATION OF LR BENDS :				

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M/s. Adorn Infra Energy Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
43	Fabrication of 6D bend / LR (Induction) bends as per the relevant standard & Specification attached with the tender document from free issue linepipes (mother pipe) including but not limited to the following: "Receiving and taking over of free issue linepipes" from GAIL Dump Yard location as mentioned in Scope of Work, carrying out inspection of line pipe at the time of receive taking over in the presence of Company representative, carrying out repair of pipe defects attributable to Contractor after taking over, including supply of consumables & equipments; handling, hauling, transportation and loading/unloading required to transport the mother pipes between place of issue, LR bend fabricator/ manufacturer, intermediate storage as required, and final delivery of fabricated LR Bends to the worksite(s), as per requirement, Manufacturing/ fabricating of LR Bends, as per project requirements and Specifications. LR bends exact angle(s) shall be as per pipeline alignment. Note:- 1. Rate for repairing of defects in linepipes identified and recorded at the time of receiving & taking over i.e. defects attributable to Company shall be quoted separately in the applicable items of the SOR. 2.Loading of Pipe into installation contractor trailer shall be carried out by the GAIL Dumpyard maintenance agency already engaged by the Company.				
44	Bare Pipe ND 8", API5L X60 - 6.4mm	8	Nos	1,75,000.00	14,00,000.00
45	Bare Pipe ND 8", API5L X60 -7.1 mm	15	Nos	1,85,000.00	27,75,000.00
46	**SUPPLY AND INSTALLATION OF CASING PIPE & 6 INCH CS CONDUIT:** Supply and installation of casing pipe and 6 inch CS conduit for OFC by jacking / boring or open cut for rail, road or canal crossings wherever required in all types of soils and terrain separately for carrier pipes and fibre optic cable inside HDPE duct, supply of casing pipes and all other Contractor supplied materials viz. casing insulators and casing end seals as per enclosed drawing, materials for casing vents and drains, etc. including transportation, supply of all other materials, equipments, consumables, man-power, welding including visual inspection of all weld joints, installation of casing insulators, end seals, vents and drain-off pipes, backfilling and restoration as original of the facility crossed and performing all works as per drawings, specifications including PTS and GTS and instructions of Engineer-in Charge and provisions of Contract document.				
47	Supply and installation of Casing pipe by Boring / Jacking as per item no. 46 (Railway crossing) Casing Pipe Details: (Pipe 14" , 8.7 mm Thick, API 5L GR.B)	200	M	17,500.00	35,00,000.00
48	Supply and installation of Casing pipe by Boring / Jacking as per item no. 46 (Other than Railway Crossings) Casing Pipe Details: (Pipe 14" , 6.4 mm Thick, API 5L GR.B)	12	M	17,500.00	2,10,000.00
49	Supply and installation of 6 inch CS Conduit by Boring/Jacking as per item no. 46 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	200	M	10,500.00	21,00,000.00
50	Supply and installation of Casing pipe by open cut as per item no. 46 Casing Pipe Details: (Pipe 14" , 6.4 mm Thick, API 5L GR.B)	12	M	8,500.00	1,02,000.00
51	Supply and installation of 6 inch CS Conduit by open cut as per item no. 46 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	12	M	6,500.00	78,000.00
52	**HDD CROSSING**				

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53	**Generalities**				
54	Topographic / Bathymetry, Geotech Investigation and Hydrological data collection				
55	Site preparation				
56	Design & stress calculations as per requirement				
57	Material hand-over and material handling				
58	Site reinstatement				
59	Final dossier including all notes & calculations as required in the specification				
60	***Installation of 6 inch CS Conduit***				
61	Teletransmission--Separate Drilling for 6 inch CS Conduit for OFC installation				
62	Installation of HDPE duct & OFC cable inside 6 inch CS conduit				
63	Drilling & Pulling of 6 inch CS Conduit shall be done before mainline HDD.				
64	***Pipeline string***				
65	Beveling & welding				
66	Inspection & testing of welds				
67	Field joint coating				
68	Temporary support (roller)				
69	Control of pipeline string				
70	Hydrotesting & leak test				
71	***Drilling operation***				
72	Earthwork entry / exit points including grading erection of embankment etc..				
73	Supply & clearing out of all material needed for drilling				

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74	Drilling of washer pipe, reaming & cleaning of drill opening, supply and preparation of bentonite				
75	Pull back of the pipe string				
76	Disposal of surplus of soil & bentonite				
77	Control of the integrity of the coating				
78	***Work at entry point***				
79	Changes in direction				
80	Beveling & welding				
81	Inspection & testing of welds				
82	Field joint coating & coating of all bare section of pipe				
83	Earthwork				
84	Lowering-in				
85	backfilling as required				
86	***Work at exit point***				
87	Changes in direction				
88	Beveling & welding				
89	Inspection & testing of welds				
90	Field joint coating & coating of all bare section of pipe				
91	Earthwork				
92	Lowering-in				
93	backfilling as required				

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				Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**
M/s. Adorn Infra Energy Pvt. Ltd.					
S. NO.	**WORK DESCRIPTION AND SUPPLY**	**UNIT**	**QTY**	**PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR**	
94	Complete work for the water/ Road/ Rail crossings, including taking over and handling of linepipes from Contractor Storage Yard to worksite, Arrangement of all additional land required for Contractor's storage, fabrication, access for construction; construction design calculation and engineering of the crossing, mobilization and demobilization at site(s), supply of all materials as per "Scope of Supply" and all consumables, equipment, manpower and other resources, and acquiring the required land for site preparations, and execution of, but not limited to, the following works in accordance with specifications, drawings, and as per provisions of the Contract document and instructions of the Company/ Engineer-in- Charge: Carry out all surveys required for collecting data relevant to design and construction of the crossing, preparation of all necessary construction drawings for Company's approval as per the provisions of the Contractor document, Preparation of detailed construction method statement and calculations including Scour Depth calculations for river/ canal crossings, Strings preparation including welding, 100% Radiography of welds, NDT of welds and re-beveled areas, radiography, weld repair and re-test, pre-testing of completed string, corrosion coating of field joints with Dirax or equivalent, inspection of corrosion coating and repair of defects, Preconstruction surveys and collection of all necessary data, Installation of pipeline and CS conduit (6 Inch CS Conduit shall be installed through Seperate Drilling) , horizontal directional drilling to the correct profile as per approved drawings and specification, Post-installation hydrotest including leaks and repair of defects and retesting, etc. for defects attributed to Contractor's faulty work, Supply, fabrication and construction of protective fencing as required, Hydrotesting, Supply, fabrication and erection of pipeline markers, Restoration and clean-up etc., Preparation of as-built drawings and other records etc., All other works not specifically listed herein, but required as per specifications, drawings, provision of contract document, calculations, and construction method statements, leading to successful completion of works.				
95	Linepipe details:- (Pipe 8" dia, Wall Thickness: 7.1 mm, Pipe Grade: API 5L GR.X-60 PSL 2, External Coating: 3LPE) CS Conduit details: (Pipe 6" dia, 6.4mm Thick, API 5L GR.B) Note: 1. CS Conduit shall be supplied by the Contractor. Radiography & Hydrostatic testing is not required to be done for CS Conduit. (6 Inch CS Conduit shall be installed through Seperate Drilling) Contractor shall quote accordingly. 2. The rate shall be applicable for the drilled length of the HDDs. All above works shall be executed in accordance with scope of work, GTS,PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. This line item is applicable for HDD crossing mentioned in the Crossing List with prior approval of Engineer - In-Charge during Construction.	192	M	15,500	29,76,000.00
96	**SUPPLY & INSTALLATION OF OPTICAL FIBBE CABLE AND HDPE DUCT**				
97	Suppy of 24 Fibre Composite armoured Optical Fibre Cable drum (6 fibre G-655 & 18 fibre G-652) of 4 km +/-5% Cable drum length with fiber terminal closure, inspection chamber, electronic route marker all along pipeline route, Two number electronic locater as per PTS-Optical Fibre cable and Scope of Work C&I along with all required accessories and fitments not mentioned seperately.	7000	M	135	9,45,000.00
98	Inspection/Jointing Chamber (fabricated or readymade)	3	Nos	22,500	67,500.00
99	Blowing Pit (fabricated or readymade)	7	Nos	15,000	1,05,000.00
100	Supply of jointing closure 24 Fiber, 2 way including all accessories (3M, Siemens, Reychem make only)	3	Nos	10,500	31,500.00
101	Supply of End to End OFC termination of wall mounted FTC with pig tails other accessories for termination of OFC - 24 Fibre in the Telecom Room at Jharia & SV28	2	Nos	35,000	70,000.00
102	Electronic marker	3	Nos	5,000	15,000.00
103	Electronic Locator	1	Nos	3,75,000	3,75,000.00
104	Supply of 50mm OD permanently lubricated HDPE telecom duct along with all the required accessories as per PTS-Optical Fibre cable and Scope of Work C&I	7000	M	75.00	)00.00

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105	Laying of HDPE Duct : Laying of 50mm HDPE Ducts in same pipeline trench direct buried, or inside 6 inch CS conduit at various crossings as per Specification in all type of soil & terrain, excavated as required, padding, backfilling, etc. including supply of accessories required for HDPE Duct installation, including plastic couplers, end plugs, cable sealing plugs, end caps, etc. suitable & sufficient for above supplied ducts, cleaning and sealing of ducts at the end laid drum lengths, preparation and supply of cable blowing pit at each Km jointing of HDPE duct, testing of HDPE Duct and accessories after laying preparation of report and final drawing and documents as per specification, joint location marking, erection accessories, as-built, etc.	7000	M	40.00	2,80,000.00
106	Blowing of Optical Fibre Cable inside HDPE Duct : All activities pertaining to Blowing of Optical Fibre Cable in same pipeline trench directly (after testing drum at site), inside HDPE duct along the pipeline and at crossing, sealing using all materials required as per specification	7000	Nos	55.00	3,85,000.00
107	Installation of FTC & Wire mesh, termination of OFC on FTC / DDF inside telecom room, splicing with steet fibre, fibre test, OTDR test, power testing of laid OFC, identification of fault, rectification, earthing, final testing and commissioning, preparation of reports, etc. work complete in all respect with all necessary accessories for all location till final Handing Over and Taking Over by Owner of laid OFC.	1	LS	5,00,000.00	5,00,000.00
108	**TRANSPORTATION OF COATED AND BARE LINEPIPES FROM GAIL DUMPYARDS (ANY LOCATIONIN INDIA) TO CONTRACTOR STORAGE YARD:**				
109	"Receiving and taking over" of "free issue" Linepipes from GAIL Dump Yard location (any location in India); Carrying out inspection of Linepipes at the time of receiving and taking-over, recording of pipe & coating defects at the time of taking over in the presence of Company's representative, carrying out repair of coating defects & pipe defects attributable to Company; including supply of materials, consumables & equipments; handling, hauling and transportation from designated place of issue to Contractor Storage Yard; unloading and stacking of the linepipes at Contractor Storage Yard; including arranging all equipments, trailers, trucks & manpower; all works as per Scope of Work, drawings, PTS, GTS and other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, Provision of Contract & instructions of Engineer InCharge.				
110	Linepipe Details:- Coated and Bare Line Pipe 8" diameter API 5L Gr. X-60 PSL-2 Wall Thickness - 6,4mm / 7.1mm External Coating - 3LPE, Internal Coating - Liquid Epoxy 1) Loading of Pipes into Installation contractor's trailer shall be carried out by the contractor. 2) Development & Maintenance of Contractor Storage Yard adequate to store the linepipes including arrangement of all Lifting & Handling equipment at Contractor's Storage Yard shall be done by the Contractor. Rate for the same shall be quoted in applicable items. 3) Rate for repairing of coating defects in linepipes identified and recorded at the time of receiving & taking over i.e. coating-defects attributable to Company shall be included in this item. 4) Rate for repairing of pipe-defects identified and recorded at the time of receiving & taking over i.e. pipe-defects attributable to Company shall be quoted separately in the applicable items of the SOR. 5) Transportation of line pipe from Contractor's Storage Yard to work site is included in SOR item 1 above, No separate payment will be applicable for the same.	350000	Ton-Km	9.50	33,25,000.00
111	TRANSPORTATION OF FREE ISSUE PIPING ITEMS (OTHER THAN LINE PIPE) FROM GAIL STORAGE YARDS (ANY LOCATION IN INDIA) TO CONTRACTORS YARD / WORKSITE(S) : "Receiving and taking-over", handling, lifting, loading, transportation and unloading of Company supplied "free-issue materials" (Other than line pipe) viz. Metering Filtering and PRS Skid, Scrapper Launcher/ Receiver & accessories, Valves with or without Actuators, Insulation Joints, Flow Tee, Pig Signallers, fittings, flanges etc. from GAIL Storage yards location (any location in India) to Contractor's Storage Yard / work-site(s). Note:- 1) Location of GAIL Storage Yard shall be anywhere in India. Contractor shall quote accordingly. 2) Transportation of FIM from Contractor's Storage Yard to work site, is included in SOR item 119 below, No separate payment will be applicable for the same.	24000	Ton-Km	10.50	2,52,000.00
112	**DEVELOPMENT OF CONTRACTOR STORAGE YARD:**				

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M/s. Adorn Infra Energy Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
113	Development of the Contractor Storage Yard including fencing, illumination etc., including deployment of all lifting and handling equipments, manpower required to stack, unload and load all Free Issue Material (FIM) including Line Pipes and all bought out items, as required; storage of all Free Issue Material and bought out items for the required duration as per project requirement, all works as per Scope of Work, drawings, other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, PTS, GTS and Provision of Contract & instructions of Engineer In-Charge. The storage yard shall be used for storage of all Free Issue Line pipes, all other Free Issure Material (FIM) and all bought out items required for the project. Notes:- 1) Development of contractor storage yard adequate to store all the material required for Project, including all Free Issue Material (FIM) and bought out items. (Rate for the same shall be captured in this item) 2) Maintenance of contractor storage yard for the entire project period is included in the scope of contractor. No separate payment shall be applicable for the same.	1	LS	1,50,000.00	1,50,000.00
114	Hard Rock breaking by controlled blasting / chiseling method (rate will be applicable in case when prior approval for rock breaking is obtained by the contractor from GAIL / PMC)	50	M3	4,200.00	2,10,000.00
115	Clean Agent Fire Supression System as per Scope of Work	1	LS	50,000.00	50,000.00
116	Restoration of underground utilities (pipes & cables) during excavation at ONGC, GCS Jharia and Receiving Station (which is inside SV-28 Premises)	5	Nos	25,000.00	1,25,000.00
117	**Sub-Total Section A**				**3,41,61,250.00**
118	**SECTION-B [MECHANICAL (PIPING & TERMINAL WORKS)]**				
119	**PIPING WORKS AT DESPATCH AND RECEIVING STATIONS AND HOOK-UP WITH ONGC GCS, JHARIA** All works for installation of all piping at all elevations for Despatch and Receiving Stations as indicated in Drawings, Scope document, including supply of all consumables, Gaskets, nuts, bolts Studs, manpower, materials and equipment (except Company supplied free-issue materials), aligning, grouting, tie-in with pipeline and carrying out all mechanical works of underground and above ground piping including fabrication, welding, installation of all pipes, valves (manual & actuated), flanges, fittings, flow tees, pig signalers, insulating joints, corrosion monitoring probes /corrosion coupons, installation of instruments (pressure/temperature gauges, vents, drains-off, safety relief valves, electro hydraulic valves etc.) as indicated in P& IDs and GADs. 100% Radiography of weld joints of piping above 1.5 inch, Magnetic particle & Die penetration test for piping 1.5 inch & below, all NDT of welds, weld repairs/retesting, hydrostatic testing, cleaning/flushing, functional testing, de-pressurizing , Drying and dewatering, cutting and re-beveling (as required), hookup of all pipeline/utilities at the battery limit with the pipeline/utilities installed by others, obtaining all statutory clearances, approvals and permissions for the work (wherever required), excavation and filling in all types of soils including soft/hard rock for installation of piping/ pipe supports; corrosion coating and external painting (as required), finishing, clean-up and restoration of site, preparation of as- built drawings, documents and project records and performing all works as per drawings, specifications, other provisions of Contract document and instructions of Engineer-in-Charge. Civil/ structural works for piping supports will be paid separately as per unit rate provided elsewhere in the contract. Cost of Transportation of all materials (Including FIM mentioned above) for station works, from Contractor's own stock-yard to Work site, to be included in this SOR item. No separate payment will				
120	Fabrication and Erection of piping as per item no.110, (For Pipe Size 2 Inch and above, 100% Radiography) Note: 1. Rate for Handling, Fabrication and erection of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item. Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor.Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes 2" & above, shall also be part of this item. Contractor shall quote accordingly.	1500	INCH DIA METER	550.00	8,25,000.00
121	Fabrication & Erection of Piping as per item no. 110 (For Pipe Size Below 2 inch, Magnetic particle & Dye Penetration Test as per the requirement of specification) Note: 1. Rate for Handling and installation of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item.Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor. Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes below 2", shall also be part of this item. Contractor shall quote accordingly.	50	INCH DIA METER	4,100.00	2,05,000.00
122	Painting of Piping (Pipe, Fittings, Flanges, Valves, Equipments, etc.) as per item no. 110	1550	ICH METER	550.00	8,52,500.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Adorn Infra Energy Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
123	Hydrostatic testing, cleaning / flushing, functional testing, de-pressurizing, dewatering & drying of Piping as per item no. 110 (for all size upto 10").	1550	ICH METER	650.00	10,07,500.00
124	**INSTALLATION OF COMPANY SUPPLIED FIM (FML SKID AND PIG LAUNCHER/RECEIVER SYSTEM) AT DESPATCH TERMINAL AND RECEIVING TERMINAL**				
125	Installation of Company supplied Filtering, Metering and PRS Skid and Scrapper Launcher/ Receiver with accessories, at stations including all handling and installation works; as per drawings, specifications enclosed with the Contract and directions of Engineer-in-Charge. Cost of Transportation of above Free issue items, from Contractor's own stock-yard to Work site for station works, to be included in this SOR item. No separate payment will be applicable for the same.	1	LS	16,00,000.00	16,00,000.00
126	**CONTRACTOR SUPPLIED ITEMS:(Supply of Items as per attached PTS,GTS,Data Sheet,QAP and PMS)**				
127	**Station pipe -Seamless**				
128	1" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, PE, SEAMLESS	6	METER	850.00	5,100.00
129	2" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	90	METER	1,350.00	1,21,500.00
130	4" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	135	METER	2,200.00	2,97,000.00
131	8" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	50	METER	4,100.00	2,05,000.00
132	8" pipe, 6.4mm thk, ANSI B 36.10, API5L X 60, BE, HFERW/SEAMLESS	29	METER	4,100.00	1,18,900.00
133	10" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	12	METER	4,800.00	57,600.00
134	**Supply of Fitting & Flanges**				
135	1 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 350 LF2,CL1, BW, ANSI B16.25	4	Nos	350.00	1,400.00
136	2 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25.	3	Nos	440.00	1,320.00
137	1" WNRF FLANGES, 6C1, SCH. 160 / 600#, WNRF, B-16.5, ASTM A350 LF2, CL1, BW-ANSI B16.25 RF	4	Nos	380.00	1,520.00
138	8", WNRF FLANGES, 6C2, 6.4 thk/ 600#, WNRF, B-16.5, ASTM A694 F60 OR EQUIVALENT, CL1, BW-ANSI B16.25 RF.	5	Nos	5,100.00	25,500.00
139	1", BLIND FLANGES, 6C1, 600#, RF, B-16.5, ASTM A350 LF2, CL1, RF	4	Nos	380.00	1,520.00
140	3/4" EQUAL TEES, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25,	1	Nos	1,650.00	1,650.00
141	3/4", CUP THREADED 6C1, 6000#, ANSI B16-11, ASTM A 350 LF2, CL1 , BW - ANSI B16.25, ANSI B1.20.1,	3	Nos	1,450.00	4,350.00
142	**WELDOLETS (MAINLINE x BRANCH SIZE)**				
143	4" x 1", WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1 ,	2	Nos	1,800.00	3,600.00
144	8" x 2" WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 6.4 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 694 F60	13	Nos	1,750.00	22,750.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Adorn Infra Energy Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
145	8" x 2", WELDOLETS (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	26	Nos	1,750.00	45,500.00
146	**GASKETS**				
147	GASKETS, 6C1, 600#, RF, ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 1"	12	Nos	110.00	1,320.00
148	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 2"	210	Nos	140.00	29,400.00
149	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 4"	30	Nos	180.00	5,400.00
150	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 8"	47	Nos	450.00	21,150.00
151	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 10"	2	Nos	550.00	1,100.00
152	**NIPPLES**				
153	NIPPLES, 6C1, Sch 160 /600#, ANSI B 36.10, ASTM A333 GR.6, BOTH ENDS PLAIN, SEAMLESS-LG=100mm, 3/4"	12	Nos	350.00	4,200.00
154	NIPPLES, 6C1, Sch 160 / 600#, ANSI B 36.11, ASTM A333 GR.7, ONE END THRD -MNPT SEAMLESS- LG=100mm, 3/4"	8	Nos	350.00	2,800.00
155	**INSULATING JOINT**				
156	INSULATING JOINT 6C,16.4 mm (X60) x 600# ,MANUFACTURER STANDARDS ,ASTM A694 F60 ,BW - ANSI B16-25, 8"	2	Nos	2,00,000.00	4,00,000.00
157	**Supply of following Valves as Per attached PTS,GTS,Data Sheet,QAP,PMS & MTO**				
158	1",BALL VALVE - FULL BORE (RF) (ABOVE GROUND),6C1	6	Nos	3,500.00	21,000.00
159	3/4", CHECK VALVE (RF) (AG), 6C1	2	Nos	4,800.00	9,600.00
160	3/4",NEEDLE VALVE, 6C1	5	Nos	4,850.00	24,250.00
161	**Note (Applicable for all items of SOR Item No 126 to 160):** **1. Before procurement of any of the above materials Contractor will take prior approval from GAIL / PMC.** **2. Payment will be made for actual quantity used.**				
162	**Sub-Total Section B**				**59,24,430.00**
163	**SECTION-C [CIVIL / STRUCTURAL & ARCHITECTURAL]**				
164	**CIVIL , STRUCTURAL & ARCHITECTURAL**				
165	**Earthwork excavation in soil**				
166	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	1770	cum	255.00	4,51,350.00

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M/s. Adorn Infra Energy Pvt. Ltd.

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167	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth beyond 1.5m and upto and inclusive of 3.0m including Removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	50	cum	270.00	13,500.00
168	**Earthwork excavation in soft rock**				
169	Earth work in EXCAVATION below ground level for all kinds of works in SOFT ROCK and HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as irected including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	130	cum	255.00	33,150.00
170	**Backfilling after execution of work**				
171	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps within a LEAD OF 100M,including re-excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/ mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	580	cum	135.00	78,300.00
172	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps beyond a LEAD OF 100M AND UPTO & INCLUSIVE OF 500M including re- excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	250	cum	160.00	40,000.00
173	**Transporting & Disposing the SURPLUS EARTH AND DEBRIS**				
174	Transporting and disposing the SURPLUS EARTH AND DEBRIS including shrubs and vegetations from construction areas to areas ANYWHERE OUTSIDE THE PLANT BOUNDARY, including re-excavating the deposited soil excavated earlier, loading, transportation, unloading, laying at all depths and heights, stacking,levelling and dressing both the area (viz. from where the earth is transported and where it is deposited) to required levels and slopes complete with all lifts as directed. For carting on the basis of truck measurements (volume of truck reduced by 30% for voids). DISPOSAL AREAS OUTSIDE PLANT BOUNDARY TO BE ARRANGED BY THE CONTRACTOR. Royalty as applicable for disposal outside plant limits to be borne by the Contractor	760	cum	125.00	95,000.00
175	**EARTH WORK FILLING BY EXCAVATION**				
176	EARTHWORK IN FILLING by excavating the earth from BORROW AREAS arranged by CONTRACTOR for all leads, transporting the earth from borrow area including cleaning & stripping the earth at borrow areas, breaking clods, loading, unloading and laying at all depths and heights in layers of thickness not exceeding 15 cms., watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% of the maximum laboratory dry density, ressing, trimming, levelling the top surface etc. in foundations, plinths, trenches etc. all complete.	4725	cum	260.00	12,28,500.00
177	**PLAIN & REINFORCED CEMENT CONCRETE: (REFER SPECIFICATION NO. (Z/02/0004)**				
178	**PLAIN CEMENT CONCRETE - PCC**				
179	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:4:8 (1 cement : 4 coarse sand (Zone-III) : 8 graded stone aggregate 40 mm nominal size)	105	cum	7,500.00	7,87,500.00
180	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:3:6 (1 cement : 3 coarse sand (Zone-III) : 6 graded stone aggregate 40 mm nominal size)	20	cum	7,900.00	1,58,000.00
181	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:2:4 (1 cement : 2 coarse sand (Zone-III) : 4 graded stone aggregate 20 mm nominal size)	120	cum	8,500.00	)00.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Adorn Infra Energy Pvt. Ltd.

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182	Providing and laying PLAIN CEMENT CONCRETE for all depths below and upto plinth level in foundations, drains, fillings, non-suspended floors, pavements & ramps or any other works etc. including shuttering, tamping, ramming, vibrating, curing, etc. all as specified in any shape, position, thickness and finishing the top surface rough or smooth as specified and directed all complete for concrete grade M20 with 20mm and down size graded crushed stone aggregates/Gravels. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR	110	cum	8,800.00	9,68,000.00
183	**RCC WORKS**				
184	**SUBSTRUCTURE**				
185	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUBSTRUCTURE INCLUDING CENTERING & SHUTTERING) e.g. foundations, raft, beams, pile caps, Retaining walls, counterforts, buttresses, pedestals, pipe sleepers, columns, suspended floors, staircases, landings, steps, brackets etc., including equipment/ machine foundations & pedestals viz. compressors, generators, etc. (including single pour concreting as specified on the drawing), applying cement wash on concrete surface (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering, etc., wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT)for all depths below and upto plinth level in any shape, position and thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	615	cum	12,300.00	75,64,500.00
186	**SUPER STRUCTURE - EXCLUDING CONTROL ROOM BUILDING, GUARD ROOM & BOUNDARY WALL**				
187	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUPER STRUCTURE INCLUDING CENTERING & SHUTTERING in suspended floors, slabs, beams, columns, walls including counterforts, staircases, landings, steps, facias, fins, mouldings, gutters, shelves, window sills, canopies, lintels, girders, ducts, brackets, chajjas with drip moulds, pedestals, posts, struts, equipment/ machine foundations, ramps etc. (including single pour concreting as specified on the drawing), providing cement wash (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT) FOR ALL HEIGHTS UPTO & INCLUSIVE OF 20 m ABOVE PLINTH LEVEL in any shape, position, thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	70	cum	13,000.00	9,10,000.00
188	**CONTROL ROOM BUILDING (SUPERSTRUCTURE)**				
189	Construction of Control Room Building as per drawings and specification. Building work for all Superstructure works INCLUDING CENTERING & SHUTTERING , Reinforcement , masonry work, partition wall, Plastering & pointing, flooring, Floor finishes, Door & windows, rolling shutter, false ceiling, all finishes, painting, roof treatment complete in all respect etc.)	215	m2	22,000.00	47,30,000.00
190	**GUARD ROOM (SUPERSTRUCTURE)**				
191	Guard Room as per drawings and specification. Building work for all superstructure works including (Reinforcement, masonry work Plastering & pointing, flooring, Floor finishes, Door & windows, painting, roof treatment, all finishes, water supply and sanitary work complete in all respect etc.)	17	m2	22,000.00	3,74,000.00
192	**HYD Bars / MS Bars**				
193	Supplying and placing in position HIGH YIELD STRENGTH DEFORMED STEEL BARS REINFORCEMENT of Grade Fe500D TMT conforming to IS:1786, for RCC work (excluding control room building & Guard room & boundary wall superstructure) including transporting the Steel, straightening, cleaning, decoiling, cutting, bending to required shapes and lengths as per details, binding with 18 SWG black soft annealed binding wire at every intersection, supplying and placing with proper cover blocks, supports, chairs, overlaps, welding, spacers, fanhooks etc. for all heights and depths etc. all complete as directed. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE	70	MT	98,000.00	68,60,000.00
194	**STRUCTURAL STEEL WORKS (REFER TE SPECIFICATION)**				

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195	Supplying, fabricating and erecting of structural steel and applying COATING (Post-erection/ Field) of approved quality and shade as per TE Specification or Job Specifications, wherever applicable) over the coat of shop primer already applied, including storage, surface preparation, degreasing, cleaning, drying, providing necessary arrangement for access, testing etc. including touching up of shop for steel structures (Including Wicket Gate, Main Gate and emergency gate, excluding ladders, spiral stairways & hand rails) at all location & levels, all complete as specified, for UNIT (INLAND) areas considering environment classification as INDUSTRIAL. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE. (Unit rate based on Structural steel weight)	25.5	MT	1,25,000.00	31,87,500.00
196	**MISCELLANEOUS STEEL WORKS (REFER TE - SPECIFICATIONS)**				
197	MS Chequered Plates				
198	Supplying, fabricating and erecting in position at all levels and locations bolted, screwed and/or welded M.S. CHEQUERED PLATES of any thickness in walkways, platforms, stairtreads or any other place as directed, etc. cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing, welding, preparation and submission of fabrication drawings and preparing the surfaces for painting and applying shop primer as per TE Specification after fabrication and return of unused/ scrap/ unserviceable chequered plates to Owner's store and material reconciliation etc. all complete as specified and directed	1.5	MT	1,20,000.00	1,80,000.00
199	Anchor Bolts				
200	Supplying, fabricating, fixing and keeping in position at all levels and locations THREADED ANCHOR BOLTS of all diameters and nomenclature including nuts, washers, anchor plates, pipe sleeves etc. in foundations, columns, pedestals, slabs, beams, walls etc. or any other place as directed including handling & transporting, straightening if required, turning from relevant size M.S. rounds to required diameter, threading, welding, providing necessary templates and auxiliary dummy structures, if any, necessary tying and welding with reinforcement, adjustment of shuttering & reinforcement/any other fixture, greasing exposed metal surfaces, covering bolts and packing the sleeves with jute cloth etc. all complete as specified and directed.(SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.6	MT	1,30,000.00	2,08,000.00
201	MS Metal Inserts				
202	Supplying, transporting, storing, fabricating and fixing in position M.S. METAL INSERT (with lugs) of any shape made out of flats, plates, rolled sections, pipes etc. providing necessary templates, staging, cutting,straightening, if required, bolting, welding as required and embedding in position on both Plain and Reinforced Cement concrete members inclusive of adjusting shuttering & reinforcement/ any other fixture, welding where necessary, tying and holding to correct level, line and position, any auxiliary dummy structures to support the heavy inserts, painting exposed surfaces with a coat of primer as per TE Specification all complete for all depths and heights as specified and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	0.55	MT	1,50,000.00	82,500.00
203	MS Grating				
204	Supplying, fabricating and erecting in position at all levels and locations ELECTROFORGED GALVANISED GRATING (purchased from approved manufacturer by the Contractor) conforming to TE STANDARD (in walkways, platforms, stair treads etc.) including cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing with manufacturer's supplied galvanised clamps, preparation and submission of fabrication drawings, all complete as specified and directed (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.85	MT	1,40,000.00	2,59,000.00
205	Hand Railing 1000mm				
206	Supplying, fabricating and fixing in position at all locations 1000mm high INCLINED HAND RAILING (for staircases) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade M.S. Tubes conforming to IS:1239 including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE SPEC. preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	1,500.00	15,000.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Adorn Infra Energy Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
207	Supplying, fabricating and fixing in position at all locations 1000mm high HORIZONTAL HAND RAILING (for platforms, walkways, etc. or any other location as directed) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade MS Tubes conforming to IS:1239 and 100x5 MS Toe Plate confirming to IS:2062 (Grade A/B), including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE standard drawing & specification, preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	1,800.00	18,000.00
208	**CHAIN LINK FENCING**				
209	Supplying, fabricating and fixing G.I. chain link fencing with 3.5mm dia. wire, 50x50mm diamond mesh chain link fence fabric conforming to IS:2721 fixed to steel/RCC posts/struts above ground level, including supply of chain link fencing fabric in 1.9 metre wide rolls, stretcher bars, staples, etc. required for fixing the fencing, fixing of chain link fencing between straining posts, fixing of bottom of fencing in cement concrete 1:2:4 blocks and painting with synthetic enamel etc. , including supply and fixing line wires, complete as per drawings, specifications and directions of Engineer -in-Charge (All materials shall be supplied by Contractor). (The measurement of chain link fencing shall be on linear basis for 1.9 m wide fencing fabric)	10	M	650.00	6,500.00
210	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of the Engineer-in-Charge. Made of G.I. wire of dia. 4 mm, PVC coated to achieve outer dia not less than 5 mm in required colour and shade.	600	M2	330.00	1,98,000.00
211	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Star' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	200	M	304.00	60,800.00
212	**ROADS & FLEXIBLE PAVEMENT (UPTO WBM LAYER)**				
213	Preparation and consolidation of sub-grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth outside the property boundary in the un-disputed areas as directed by Engineer-In-Charge.	1500	M2	100.00	1,50,000.00
214	Supplying and laying of stone aggregate of 63mm down to 45mm size for WBM layer Base Course, tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 75mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding material of plasticity index upto 6%, including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts etc. complete as per drawings, specifications and directions of Engineer-in-Charge	4500	M2	225.00	10,12,500.00
215	**CONCRETE PAVEMENTS**				
216	Construction of dry lean cement concrete **(DLC) sub base** over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in- charge.	150	cum	4,500.00	6,75,000.00
217	Providing and laying Reinforced Cement Concrete with 20mm and down size graded crushed stone aggregates in flooring, pavements etc. including leaving pockets, if necessary, making recess/drains, laying in alternate panels, etc. for all depths including shuttering, tamping, curing, providing dowel bars with sleeves/tie bars etc where ever required at site. as specified in any shape, thickness, position and finishing the top surface smooth etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For RCC of M-30 grade concrete (all materials including cement but excluding cost of providing & fixing reinforcement and joint sealing shall be supplied by the contractor).	375	cum	13,500.00	50,62,500.00

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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218	Providing 20mm wide Expansion Joints in pavement slabs as per general technical specification including cleaning the joints of all loose material, filling with 20mm thick impregnated fibre boards for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved Joint Sealing Compound as per IS:1834 Type-B etc. all complete as per drawings, specifications and directions of Engineer-in-Charge	720	M	540.00	3,88,800.00
219	Sealing joint around pedestal and column etc. 20mm wide x 150 mm deep including filling with 20mm thick impregnated fire board for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved joint sealing compound as per IS:1834 Type-B.	300	M	570.00	1,71,000.00
220	**RCC PIPE CULVERTS & ELECTRICAL ROAD CROSSINGS ETC. (as per drawing & TE specification)**				
221	Supplying and laying in position RCC pipes with collars conforming to IS:458 for pipe culverts, cable crossings etc. including cutting the pipe if necessary, lowering, laying in position to proper levels, slopes etc. caulking the joints with spun yarn soaked in neat cement slurry and finishing with cement mortar 1:2 (1 cement : 2 sand) curing etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For following Class and Internal PIPE DIA (MM). (Dia (internal) - 500 mm, Pipe Class - NP3)	20	M	2,000.00	40,000.00
222	**U/G AND A/G G.I. PIPELINE SYSTEM - WATER SERVICES tender specification**				
223	Supplying and laying mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ ASTM A105 (Galvanized) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, earthwork in excavation for trenches, valve pits, etc. in all types of soil excluding soft and hard rock including laying of pipes in trenches, joining the pipes and fittings with threaded connections, hydrostatic testing of the piping, backfilling the trenches with selected/approved earth fill material, cutting of roads wherever required, making good the road surface after laying, disposal of surplus earth within a lead of 500 m, etc. including supply of necessary fittings etc. complete as per specifications, drawings and directions of Engineer-in-Charge. For following Nom.Size in mm. (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	150.00	1,500.00
224	Supplying and laying above ground mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ASTM A 105 (GALVANISED) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, including laying of pipes on sleeper, walls, including erecting piping on columns, etc. for pump station, overhead tanks, etc. including joining the pipes and fittings with threaded connections, hydrostatic testing of the piping including supply of necessary fittings etc & pipe supports. complete as per specifications, drawings and instructions of Cement Supplied by contractor (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	160.00	1,600.00
225	**MISC. CIVIL AND STRUCTURAL WORKS FOR U/G PIPING AND OTHER CIVIL WORKS**				
226	Providing and laying brick masonry with locally available bricks of specified class (Brick of class lower than specified shall not be accepted) in cement mortar 1:4 (1 cement : 4 Coarse sand) in one or more brick thickness and in any shape in foundation and plinth for valve pits, drains, circular/square manholes, wing walls, etc. including providing recesses, openings, etc. including curing, finishing the joints flush below ground level and raking out joints in plinth with all labour and material, etc. complete as per drawings, specifications and direction of Engineering-Charge. For following Brick Class.	280	cum	7,800.00	21,84,000.00
227	Providing 13mm thick average cement plaster in cement mortar 1:3 (1 cement: 3 sand) on brick walls/stone masonry/pitching or on concrete surfaces for manholes, valves pits, culverts, wing walls, etc. including cleaning and preparation of the surface, scaffolding, curing etc. for all depths and heights complete as per drawings specifications and direction of Engineer-in-Charge. All materials including cement supplied by the Contractor.	750	M2	420.00	3,15,000.00
228	**UNDERGROUND SEWER SYSTEM - RCC PIPES**				
229	Supplying and laying underground R.C.C. pipes sewers with socket and spigot ends conforming to IS:458 of approved make, to proper grade and alignment, including earthwork in excavation in all types of soil except soft and hard rock for pipe trenches, etc. including dewatering, shoring and shuttering if necessary, dressing of sides, leveling, grading and ramming of bottoms, cutting the R.C.C. pipes to required lengths, lowering the pipes, jointing, including connecting the pipes to manholes and grouting the pipe body with manhole wall using cement mortar 1:2 (1 cement : 2 sand), testing, draining of water and cleaning of pipe after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness , watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, including cutting of roads wherever required and making good the same, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit etc. complete for all depths as per drawings, specifications and instructions of Engineer-in-Charge.(All material shall be supplied by contractor) For following Pipe size (mm) and Class(The following pipe sizes are all internal diameter of the pipes)				
230	(Dia (Internal) - 100 mm, Piping Material Class - NP2)	15	M	210.00	3,150.00
231	(Dia (Internal) - 150 mm, Piping Material Class - NP1)	15	M	250.00	750.00

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232	(Dia (Internal) - 450 mm, Piping Material Class - NP2)	70	M	775.00	54,250.00
233	**UNDERGROUND SEWER SYSTEM-HDPE PIPES**				
234	UNDERGROUND SEWER SYSTEM-HDPE PIPES :- Supplying and laying HDPE pipes conforming to IS:4984 of approved make to proper grade and alignment, including earthwork in excavation for trenches etc. in all types of soil except soft and hard rock including dewatering till completion of subsequent works, shoring and strutting, if necessary, dressing the sides, leveling, grading and ramming the bottom, jointing the pipes using hot plates as per manufacturer's recommendation, lowering, providing and laying 1:5:10 (1 cement : 5 sand : 10 aggregate) plain cement concrete of minimum 100mm thickness on bottom and side of pipe as directed, connecting the pipes to manholes and grouting the pipes to manhole/valve chamber walls, including supplying and fixing the specials and fittings, such as bends, reducers, tees, elbows, caps etc. conforming to IS:8008 or fabricated from pipes as per specification, supplying and fixing of flanges, fixing of online valves, including fixing of bolts, nuts and gaskets etc. as per specifications, testing, draining of water and cleaning of pipes after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness, watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit, cutting of road wherever required, making good the same etc. complete for all depths as per drawings, specification and instruction of Engineer-in- Charge. For the following nominal diameter (mm) Pressure Rating(Kg/Cm2). (Dia (Internal) - 80 mm, Pressure Rating - 2.5 Kg/sqcm)	50	M	1,600.00	80,000.00
235	**PLUMBING AND BUILDING DRAINAGE**				
236	Supplying and fixing approved quality Cast Iron soil/waste pipe conforming to IS:1729 below ground with necessary specials, bends such as Y-junction, T- junction (both single and double) including plugs, shoes, cowls, jointing with lead caulked joints and testing, cutting in floors, earth work in excavation, encasing the pipe in 50mm THK, PCC M20, backfilling and removal of surplus earth upto a lead of 50M etc. complete as per drawings, specifications and directions of Engineer-in-Complete				
237	100mm dia (All materials including cement supplied by contractor)	10	M	2,200.00	22,000.00
238	80mm dia (All materials including cement supplied by contractor)	10	M	2,100.00	21,000.00
239	**Supplying and fixing gun metal globe valve conforming to IS:778, complete as per specifications and directions of Engineer-in-Charge.**				
240	Dia - 50 mm	2	Nos	5,000.00	10,000.00
241	**Constructing of brick masonry valve chamber in 1:4 Cement mortar(1 cement: 4 sand) with CI frame & cover fixed on M-20 grade cement concrete , necessary excavation, M-20 grade foundation concrete, 13mm thick 1:3 cement plaster on inside & all exposed surfaces, backfilling, removal of surplus earth for all leads within the complex limit etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge. For following Valve size and Brick Class (All materials including Cement supplied by contractor)**				
242	Dia - 50 mm, Brick Class - 5)	2	EACH	3,500.00	7,000.00
243	Providing and fixing approved stone ware 100mmx100mm dia. gully trap as per tender specification, including grating with CI frame and cover 300mmx300mm including brick masonry (brick class shall be as mentioned below) chamber in 1:4 cement mortar(1 cement: 4 sand) on M-20 grade cement concrete foundation, plastered inside and outside surfaces with 1:3 cement mortar (1 cement: 3 sand) with 13mm average thickness including providing and fixing light duty CI frame and cover, painting CI frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat, earth work in excavation, backfilling, removal of surplus earth, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry etc. all complete as per drawings, specifications and directions of Engineer-in-Charge				
244	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	2,500.00	5,000.00
245	Construction as per(Design basis & general technical specification) of brick masonry (brick class shall be as mentioned below) inspection chambers/manholes of 750mmx750mm internal size 1000mm deep(Max.) in cement mortar 1:4 (1 cement: 4 sand) with CI frame and cover 500mm clear dia, (circular Medium duty of grade MD-10) conforming to IS:1726 fixed on RCC slab of M-30				
246	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	12,000.00	24,000.00
247	Construction, supplying, installation, testing and commissioning of septic tank as per standards and IS:2470 Part-I , with all necessary accessories like inlet, outlet vent pipes, manhole covers, rungs etc. including earthwork in excavation in all type of soil except soft and hard rock, backfilling and disposal of surplus earth for all leads etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge				

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248	All material including cement supplied by contractor for (Users - 10 NOS)	1	Nos	20,000.00	20,000.00
249	**MISCELLANEOUS ITEMS**				
250	Supplying and fixing in position entrance gate in complex boundary wall fencing manufactured out of steel frame work and square MS bars of 20 mm at 100 c/c and horizontal name plate band at lock rail level suitably hinged with box type steel post embedded in cement concrete i.e. providing the tension bar for smooth operation and locking arrangement etc. complete as per tender specification, including painting with two coats of anti-corrosive paint and two coats of approved aluminium/synthetic enamel paint etc. complete as per drawings, specifications and directions of Engineer-in-Charge.				
251	4.0M clear opening width of gate in two panels.	3	Nos	26,000.00	78,000.00
252	Supplying & Laying interlocking Paver Blocks for roads, footpaths and any other place etc. including providing 50 mm thick sand filling below Paver Blocks including compaction of sand layer, filling the joints by dry sand, providing precast kerb stone of PCC M-20 at edges, including preparation of compacted sub-grade etc. all complete as per drawing, standard and directions of Engineer-in-Charge. (All material including cement supplied by contractor, paver blocks shall confirm to IS: 15658. cloour and shape of paver block shall be as per owner requirements for following thickness of paver blocks				
253	**(Thickness - 60 mm)**	285	M3	570.00	1,62,450.00
254	Supply and installation on terrace, high density polyethylene drinking water circular tank as per IS:12701 and ISI marked including supply and installation of all fittings, cover with suitable locking arrangement, float valve, making necessary holes for inlet, outlet and overflow connection and vent pipe etc. and the base supports for tank including supply of all necessary material all complete as per specifications and directions of Engineer-in-charge. (Sintex or equivalent having valid ISI license) for following capacities.				
255	**capacity - 500 litre**	2	Nos	5,000.00	10,000.00
256	Supplying, installation, testing and commissioning of Upflow Anaerobic Filter with bleaching tank as per TE Std. Drawing with all necessary accessories like, Upstream inlet CI piping from septic tank, Downstream outlet RCC NP2 class piping up to surface storm water drains, CI pipes for filter chamber, CI valve, RCC pre-cast pit covers, steps, perforated pre-cast slabs etc., inlet chamber, Filter chamber, deluding chamber including earthwork in excavation in all type of soil including soft rock, backfilling with murrum or approved soil arranged by the contractor, disposal of surplus earth etc. complete as per drawings, specification and direction of Engineering-Charge (All materials including cement shall be supplied by the contractor, Brick Class lower than 5.0 shall not be used).	1	Nos	45,000.00	45,000.00
257	**DEMOLISHING AND DISMANTLING**				
258	**Brickwork**				
259	**Demolishing BRICKWORK** (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	1,500.00	15,000.00
260	**Demolishing BRICKWORK** (taking all necessary safety precautions) for all heights **above plinth level** including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	1,800.00	18,000.00
261	**RCC**				
262	**Demolishing RCC WORK** (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	7,000.00	70,000.00

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263	**Demolishing RCC WORK** (taking all necessary safety precautions) for all heights **above plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	7,500.00	75,000.00
264	**PCC**				
265	**Demolishing PLAIN CEMENT CONCRETE** work (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc. disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation and backfilling shall be paid separately under relevant items)	10	cum	3,000.00	30,000.00
266	**MISCELLANEOUS ITEMS (REFER TE SPECIFICATION)**				
267	**Sand Filling**				
268	Supplying and filling approved SAND of specified quality under floors, in foundations, plinths, tank foundations etc. for all depths and heights including cost of sand,royalties,transportation to site for all leads and lifts, including loading, unloading, spreading in layers of loose thickness not exceeding 150 mm,watering,ramming,compacting with mechanical compactors and/or other equipment to the specified levels to achieve 85% relative density as per IS:2720 Part XIV,including preparation of subgrade to the required slope, providing testing apparatus and testing the degree of consolidation all complete as per drawings, specifications and direction of Engineer-in-charge. The rates shall be inclusive of the cost of all labour,material,equipments etc. all complete .	100	cum	1,500.00	1,50,000.00
269	**SAND GRAVEL MIX**				
270	Supplying and filling sand gravel mix (1:1) with approved aggregate below road, RCC pavement, manholes, pits, foundations, bedding of UG piping etc. in layers of 150 mm loose thickness (maximum) including watering, ramming, rolling, compacting to achieve 85% relative density as per IS 2720 Part-XIV, quarrying, royalties, transportation, handling, etc. all complete as per drawings, specifications and directions of Engineer-in- Charge. (The rate shall be inclusive of the cost of all labour, material, equipment etc. all complete)	105	cum	2,500.00	2,62,500.00
271	**GROUTING WITH NON-SHRINKABLE COMPOUND**				
272	Providing and laying manually or by pumping at all positions a ready mix non-shrink cementitious grout of compressive strength specified below for specified works e.g. pipe support, base grouting of rotating equipment and other installation complete in all respects as per scope of work, detailed construction drawings , technical specifications and directions of the Engineer-In-Charge.				
273	Having compressive strength of 30 N/mm2 , Per bag of 25 Kg	100	Bags	2,000.00	2,00,000.00
274	Having compressive strength 45 N/mm2 , Per bag of 25 Kg	20	Bags	2,500.00	50,000.00
275	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains, SS trench of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.	7.5	m2	1,500.00	11,250.00
276	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, leve and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	13.5	cum	8,600.00	1,16,100.00
277	Providing and fixing factory made precast RCC **perforated drain covers**, having concrete of strength not less than M-25, of size 1000x450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos. cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of the Engineer-In-Charge.	515	EACH	1,200.00	6,18,000.00
278	**Borewell and recharge well**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Adorn Infra Energy Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
279	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job all complete as per drawing, direction of Engineer -in-charge, in all types of soil :	130	M	700.00	91,000.00
280	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge.	130	M	800.00	1,04,000.00
281	Providing and fixing Bail plug/ Bottom plug of required diameter to the bottom of pipe assembly of tubewell as per IS:2800 (Part-I). :150mm dia	3	EACH	680.00	2,040.00
282	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	1,300.00	6,500.00
283	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	1,300.00	6,500.00
284	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	1,300.00	6,500.00
285	Gravel packing in tubewell construction in accordance with IS:4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of the Engineer-In-Charge.	3	cum	1,480.00	4,440.00
286	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS:4270, of reputed & approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size dia having minimum wall thickness 5.00 mm	5	M	1,675.00	8,375.00
287	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	60	M	680.00	40,800.00
288	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/ 3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS:8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	25	M	1,790.00	44,750.00
289	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of 150 mm diameter	1	Nos	210.00	210.00
290	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS:2800 (Part-I), including necessary bolts & nuts of required size complete 150 mm diameter.	1	Nos	1,600.00	1,600.00
291	Supply, Installation and commissioning of 1.5HP Borwell Submersible Pump	1	EACH	35,000.00	35,000.00
292	Supply and Installation of 3Cx10Sqmm Copper Flat Cable	200	M	150.00	30,000.00
293	**LANDSCAPING**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Adorn Infra Energy Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
294	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment).	335	cum	40.00	13,400.00
295	Fine dressing of the ground.	1105	M2	20.00	22,100.00
296	Providing & laying Selection no. 1 grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden and than rolling the surface with light roller make the surface smoothen and light watering the same maintenance for 30 days or more till the grass establish properly,as per direction of officer in charge	1105	M2	110.00	1,21,550.00
297	Conducting topographical ground/land survey in the specified area as shown in the tender drawings by conventional/GPS or any other standard method, covering details of physical features like Rivers, Nallahs, Lakes, Ponds, wells, pits, Forest, Trees, Roads, culverts, transmission lines, telegraph/ telephone and electric poles, underground or any other services, cross drainage works including cross sectional details of nallah etc. including establishing high flood level with source of information, identification of any monument, historical structure, wild life sanctuary in the vicinity, storm water disposal point with levels, cross-section details of nallah, recording spot levels, top level of nearest state highway or National Highway, including providing in tabulation girth wise no. of trees etc as specified, plotting and developing topographical contour maps, showing true north including establishing survey reference stations, key plan etc. including all equipment's, instruments, personnel's, clearing of bushes as per requirement for intervisibility to carry out survey work etc. , complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of drawings/map and supply of electronic files. Note: Survey work shall be carried out by survey agency approved by Contractor and sample spot witness of levels cordinates by PMC, and shall be submitted to PMC/Owner for review.Survey drawing will be provided in A0 size with clear visibility of all the spots/levels/ contoure and Bench marks. Permanaet bench mark will be stabished at site in a 450x450 mm size 600mm high bick masonry piller.	4220	M2	160.00	6,75,200.00
298	**GEO TECHNICAL INVESTIGATION (Z/02/0022)**				
299	Conducting soil investigation with boring including all field tests and laboratory tests, mobilization and demobilization of equipments & personnel etc. for soil investigation for each borehole location. complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of Reports & recommendations and supply of electronic files.	5	Nos	15,000.00	75,000.00
300	**ANTI-TERMITE TREATMENT**				
301	Supplying chemical emulsion in sealed containers including delivery as specified in the Technical Specifications.				
302	Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	200	LITRE	200.00	40,000.00
303	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
304	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc. as per Techinal specifications and direction of engineering in charge: With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	80	METRE	33.00	2,640.00
305	Treatment of soil under floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the floor:				
306	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	250	SQM	256.00	64,000.00
307	Supply and installation 60mm dia GI pipe for column support of gate	15	M	400.00	6,000.00
308	Supply and installation 100mm dia MS pipe	15	M	750.00	11,250.00
309	Supply and installation 50mm dia MS pipe	15	M	350.00	5,250.00
310	Supply and installation of U-PVC pipes (working pressure 4 kg / cm²) Single socketed pipe 75 mm dia for weep holes	200	M	75.00	15,000.00
311	**Sub-Total Section C**				**555.00**

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Adorn Infra Energy Pvt. Ltd.

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312	**SECTION-D [CATHODIC PROTECTION WORKS]**				
313	**CATHODIC PROTECTION SYSTEM**				
314	**Cathodic Protection system**				
315	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning & Monitoring of the temporary cathodic protection [TCP] system using galvanic anodes to protect the external surface of the pipeline against soil-side corrosion for minimum 2 year or till commissioning of permanent CP system whichever is later . All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard drawings and vendor list as attached with this tender and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	10,00,000.00	10,00,000.00
316	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning of permanent cathodic protection system for 40 years. The scope of work also includes post commssoning surveys and repair of coating/ rectification of cathodic protection system based on the post commissioning surveys. In additon to the same, AC Interference study on the pipelines to be performed and mitigation measures takes to the satisfaction of Owner/ CONSULTANT. All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard and vendor list attached and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	45,00,000.00	45,00,000.00
317	**Sub-Total Section D**				55,00,000.00
318	**SECTION-E [ELECTRICAL WORKS]**				
319	**ELECTRICAL**				
320	**SWITCH BOARDS / UPS SYSTEM/ PANEL**				
321	Supply , Installation, testing and commissioning of LT Switch-boards, AC UPS system with UPS Distribution board & Ni-Cd Battery banks , distribution boards, cubicles with electrical equipment, misc. electrical panels etc., including transportation from store/yard to site at the place of installation, unpacking, assembly, including mounting and wiring of loose parts supplied by equipment vendor, interconnection of shipping sections and requisite inter-panel wiring between shipping sections, including supply of all wiring materials, installation on foundations or fixing to wall or steel structures, aligning, levelling, grouting, including all labour and materials, as per approved drawings, specifications of this tender and directions of Engineer-in-Charge.				
322	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted MEDB	1	Nos	5,17,000.00	5,17,000.00
323	Supply , erection , termination , earthing and commissioning of wall mounted OLDB as per single line diagram of DT stations	1	Nos	50,600.00	50,600.00
324	Supply , erection , termination , earthing and commissioning of wall mounted ILDB as per Single line diagram of DT stations	1	Nos	50,700.00	50,700.00
325	Supply , erection , termination, earthing and commissioning of wall mounted SSDB as per Single line diagram of DT stations	1	Nos	92,800.00	92,800.00
326	Supply , erection , termination , earthing and commissioning of wall mounted AC DB as per Single line diagram of DT stations	1	Nos	72,600.00	72,600.00

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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327	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 6 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of DT stations	1	SET	8,00,000.00	8,00,000.00
328	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for DT stations.	1	SET	5,46,000.00	5,46,000.00
329	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 1 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of RT stations	1	SET	3,83,000.00	3,83,000.00
330	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for RT stations.	1	SET	5,19,000.00	5,19,000.00
331	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted Emergency DB	1	Nos	75,700.00	75,700.00
332	Supply , erection , termination , earthing and commissioning of 32A, 4P, 25kA Auto Change-Over switch as per Single line diagram of DT station-JHARIA	1	Nos	52,000.00	52,000.00
333	**POWER AND CONTROL CABLE**				
334	Supply , laying , termination , erection and testing of 1.1 KV Power and control FRLS PVC Outersheath, XLPE insulated, armored Cables . Outdoor cable will be laid in buried cable trench and in Indoor cable will be laid in Cable trench by provision of Cable tray and supports inside the trench as per PTS - Electrical package P.017110 G 11077 E002				
335	3.5C x 95 sqmm AL FRLS XLPE	300	M	600.00	1,80,000.00
336	3.5C x 70 sqmm AL FRLS XLPE	300	M	350.00	1,05,000.00
337	3.5C x 50 sqmm AL FRLS XLPE	50	M	327.00	16,350.00
338	3.5C x 25 sqmm AL FRLS XLPE	100	M	178.00	17,800.00
339	4C x 16 sqmm CU FRLS XLPE	100	M	563.00	56,300.00
340	3C x 2.5 sqmm CU FRLS XLPE	170	M	146.00	24,820.00
341	3C x 6 sqmm CU FRLS XLPE	250	M	295.00	73,750.00
342	4C x 6 sqmm CU FRLS XLPE	350	M	371.00	1,29,850.00
343	2C x 6 sq.mm CU FRLS XLPE	100	M	274.00	27,400.00
344	2.5 sqmm Cu. Wire	1800	M	32.00	57,600.00
345	6 sqmm Cu. Wire	600	M	87.00	52,200.00
346	**Earthing & Lightning**				

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347	Supply , Installation , testing and comissioning of GI Earth electrodes & Cu plate type earth pit complete with earth pit as per IS 3043, PTS-Electrical package and all necessary material including exacavation of earth pit , filling with charcol and salt , back filling, brick work , connections including all labour and materials as approved drawing and specification of this tender and direction of Engineer-In charge.				
348	GI Earth Electrodes				
349	65mm dia x 3000 mm L GI pipe electrode type Earth pit	17	Nos	21,000.00	3,57,000.00
350	**Cu plate Earth Electrode**				
351	600x600x3mm Cu plate type Earth pit	8	Nos	6,800.00	54,400.00
352	**Earth strip and wire**				
353	50x 6 mm GI Flat strip	850	M	400.00	3,40,000.00
354	25 x 6 mm Cu Flat strip	50	M	390.00	19,500.00
355	2.5 Sqmm Cu wire	250	M	21.00	5,250.00
356	25 x 6 mm GI Flat strip	200	M	295.00	59,000.00
357	10 Sq.mm earthing cable	250	M	130.00	32,500.00
358	GI Earth Bus 50x 6 Sq.mm with all installation assesories	3	Nos	8,750.00	26,250.00
359	Cu. Earth Bus 50x 6 Sq.mm with all installation assesories (in control room)	4	Nos	10,750.00	43,000.00
360	25x3 mm GI Flat for Lightning as well as down conductors for DT station as per overall earthing layout and GGNG-E-20713-3007	80	M	295.00	23,600.00
361	Other lightning assesories like 20mm dia copper rod, hollosphere ,200x200x6mm ms plate ,anchor/fastner ,test links for DT station as per overall earthing layout and GGNG-E-20713-3007	1	LOT	86,400.00	86,400.00
362	**OUTDOOR Lighting**				
363	Supply , erection , Testing & commissioning of Outdoor area lighting system including with supply of flameproof / weather proof light fixture , pole , junction box and earthing including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender & Overall outdoor lighting layout of DT & RT station and directions of Engineer- In charge.				
364	100W FLP LED Fixture & FLP Junction box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	4	Nos	26,000.00	1,04,000.00
365	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	2	Nos	1,06,000.00	2,12,000.00
366	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in RT Stations.	7	Nos	1,06,000.00	7,42,000.00
367	1x160W FLOOD LED Fixture with weather proof junction box & 9 mtr high pole with all assesories for open area	6	Nos	31,500.00	)00.00

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368	1x70 W Solar type Street LED Fixture with weather proof junction box, VRLA Battery (72 hrs backup time) & 9 mtr high pole for street lighting	4	Nos	1,13,000.00	4,52,000.00
369	1x27 W Post Top Lantran LED Fixture for Gate with weather proof junction box for Gate lamp	2	Nos	12,900.00	25,800.00
370	1x36 W LED industrial fixture suitable to building parapet /wall with all assesories like weather proof junction box/clamp/reducer/	2	Nos	14,800.00	29,600.00
371	**INDOOR Lighting**				
372	Supply, erection, Testing & commissioning of Indoor building area lighting system including with supply of light fixture, point wiring including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender and directions of Engineer- In charge.				
373	2x20 W LED recessed decorative fixture for control room	5	Nos	3,200.00	16,000.00
374	2x20W LED Industrial Fixture for Electrical room	2	Nos	4,150.00	8,300.00
375	1x40W LED Flameproof Fixture for Battery room	1	Nos	5,380.00	5,380.00
376	2x18W LED Industrial Fixture for Varanda/Toilet/ water cooler area/ Guard room	6	Nos	2,600.00	15,600.00
377	1x36W LED Industrial Fixture	4	Nos	2,321.00	9,284.00
378	2x20 W LED recessed decorative fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) control room.	2	Nos	2470	4,940.00
379	2x20W LED Industrial Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Electrical room	2	Nos	2,580.00	5,160.00
380	1x40W LED Flameproof Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Battery room	1	Nos	3,050.00	3,050.00
381	**Switch socket**				
382	Supply and Installation of single/ three phase Switch socket as per Indoor Illumination layout for DT & RT and PTS-Electrical Package and directions of Engineer-In Charge				
383	5/15A surface type switch socket (1 Ph)	7	Nos	3,300.00	23,100.00
384	5A flush type switch socket (1 Ph)	4	Nos	2,500.00	10,000.00
385	16A Switch socket (I Ph)	3	Nos	4,200.00	12,600.00
386	20A Switch socket for AC (1 Ph)	4	Nos	4,600.00	18,400.00
387	Flame proof Junction box for Exhaust fan in Battery room	2	Nos	12,700.00	25,400.00
388	32A Switch socket for welding receptacles (3 Ph)	1	Nos	5,300.00	300.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Adorn Infra Energy Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
389	Modular switch board	12	Nos	2,400.00	28,800.00
390	**FANS and Exhaust FAN**				
391	Supply ,Installation and testing of Ceiling Fan and Exhaust fan with louvers including all labours and materials as per Indoor Illumination layout for DT and PTS-Electrical Package and directions of Engineer-In Charge				
392	Ceiling Fan 230V AC 1200 mm sweep	3	Nos	7,600.00	22,800.00
393	450 mm FLP Exhaust Fan for Battery room	2	Nos	6,500.00	13,000.00
394	200 mm Exhaust Fan for Toilet	1	Nos	5,600.00	5,600.00
395	300 mm Exhaust Fan for Electrical room/ CO2 room	3	Nos	2,400.00	7,200.00
396	**Air conditioning unit**				
397	Supply ,Installation and testing of Five star 1.5 Ton Split AC with outdoor compressor unit including all labours and materials as per Typical Indoor Illumination layout for DT and directions of Engineer-In Charge				
398	Split Air condition Five star 1.5 Ton	4	Nos	1,09,000.00	4,36,000.00
399	**Hardware and other Accessories**				
400	Supply and Installation of Hardware and other accessories including all labours and materials as per Tender specification PTS-Electrical Package P.017110 G 11077 E002 and directions of Engineer-In Charge				
401	Rubber mat	15	M	2,300.00	34,500.00
402	Rubber hand gloves	1	PAIR	3,000.00	3,000.00
403	Warning Marker	1	Nos	1,600.00	1,600.00
404	PVC Conduit with bend ,tee and other required assesories	1	LOT	7,400.00	7,400.00
405	CAUTION Board & Sock treatment chart	1	Nos	2,300.00	2,300.00
406	Cable route marker as per Standard drawing TE-IN-STD-G-0327	1	LS	2,350.00	2,350.00
407	Fire extingusher and SAND Bucket with Stand	1	SET	12,800.00	12,800.00
408	Ladder type Cable tray - hot dip Galvanized Prefabricated 450 mm wide	55	MTR.	400.00	22,000.00
409	Perforated type Cable tray hot dip Galvanized Prefabricated 450 mm wide	35	MTR.	4,700.00	1,64,500.00

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Adorn Infra Energy Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
410	Cable Glands				
411	Cable Glands : Flame proof IIA/IIB double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
412	Cables with upto OD 20 mm & above OD 20 mm as per Single line diagram of DT & RT station	1	LOT	80,000.00	80,000.00
413	Cable Glands : Weather proof double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
414	Cables with upto OD 20 mm to 40 mm as per Single line diagram of DT & RT station	1	LOT	2,06,000.00	2,06,000.00
415	**Sub-Total Section E**				**79,14,134.00**
416	**SECTION-F [INSTRUMENTATION WORKS]**				
417	**INSTRUMENTATION**				
418	**SUPPLY**				
419	Supply of Pressure Transmitter along with 2 valve manifolds with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	70,000.00	3,50,000.00
420	Supply of Pressure gauge including high range along with 2 valve manifolds with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	18	Nos	17,500.00	3,15,000.00
421	Supply of Pressure gauge including Low Range along with 2 valve manifolds, gauge saver with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	3	Nos	39,000.00	1,17,000.00
422	Supply of temperature element (RTD) along with flanged thermowell mounted for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	67,000.00	3,35,000.00
423	Supply of Temperature Transmitter with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	7	Nos	42,000.00	2,94,000.00
424	Supply of skin type temperature element (RTD) for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I003), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	2	Nos	77,300.00	1,54,600.00

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Adorn Infra Energy Pvt. Ltd.

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425	Supply of Local control panel with all accessories as per Data sheet (P.017110 G 11087 I011), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, SAT of local control panel,supports/ frame fabrication, earthing and screwing plug for unused entries, painting and integration with RTU. Termination of all Other panel SCADA hard wired signal including RS-485 signals through LCP for RTU/SCADA by Bidder. 1. Digital Barriers 2. Analog Barries 3. Relays 4. three poisition selector switch 5. LED indication lamps 6. Push buttons 7. terminal blocks 8. internal wiring 9. MCBs 10. Door switches 11. cooling Fan 12. LED lights	2	Nos	19,46,880.00	38,93,760.00
426	Supply of Ex-proof junction box with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, iincluding Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.	4	Nos	18,590.00	74,360.00
427	Supply of Corrosion Monitoring system with corrosion coupon, Corrosion probe, transmitter and digital indicator (mounted in LCP) as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
428	Corrosion coupon along with accessories.	2	Nos	57,000.00	1,14,000.00
429	Corrosion probe along with transmitter, digital indicator, barriers and accessories.	2	Nos	1,79,000.00	3,58,000.00
430	Supply of Conventional Type Microprocessor based fire detection system along with smoke detector, heat detector, cabinet, manual call point, Independent 24 Hrs battery backup with 15 min in alarm state, repeater panel and Electrical Operated Siren, exit signs and cables fromsensor ,MCP, siren, hooter to controller as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
431	Controller along with cabinet along with cabling	1	Nos	1,65,000.00	1,65,000.00
432	Multisensor (smoke & heat)	10	Nos	5,300.00	53,000.00
433	WP IP 65 Manual call points	6	Nos	6,600.00	39,600.00
434	Ex Proof and WP IP 65 Manual call point	1	Nos	7,000.00	7,000.00
435	WP Hooter & Flasher	1	Nos	55,000.00	55,000.00
436	Repeater panel	1	Nos	1,27,400.00	1,27,400.00
437	Exist sign	6	Nos	61,947.00	3,71,682.00
438	Electrical siren Exd	1	Nos	14,800.00	300.00

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Adorn Infra Energy Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
439	24 Hrs battery backup	1	Nos	5,40,000.00	5,40,000.00
440	Supply of Conventional type gas detection system along with controller, ex proof point gas detectors, beacon hooter, flasher, , cabinet, portable gas detector, calibration kit, alignment kit as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
441	Controller with cabinet	1	Nos	6,43,500.00	6,43,500.00
442	Point gas detectors	12	Nos	1,85,000.00	22,20,000.00
443	Panel Mounted hooter	2	Nos	44,000.00	88,000.00
444	Dual tone Hooter & Beacon Ex"d" with reset push button	2	Nos	40,000.00	80,000.00
445	Portable gas detecotrs	1	Nos	1,17,000.00	1,17,000.00
446	Calibration kit	1	Nos	55,000.00	55,000.00
447	Ex d Junction Box	2	Nos	3,500.00	7,000.00
448	Supply of Universal type Hand Held Configurators for transmitters with carrying case, rechargeable batteries (one working and one standby), and battery charger as per Data sheet,PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work	1	Nos	50,000.00	50,000.00
449	Supply of Instrumentation signal cable, control cable, communication cable/LAN cable, Power cables along with all sizes cable glands (WP & Exd), PVC hood, lug, ferrule, etc including Cable laying (buried as well as tray) along with termination, glanding, meggering and loop checking including supply of ferrule, lugs, cable tie, cable clamp, cable marker etc. as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.				
450	1Px 1.5mm2	500	MTRS.	90.00	45,000.00
451	12Px 0.5mm2	900	MTRS.	650.00	5,85,000.00
452	1Qx1.5mm2	30	MTRS.	80.00	2,400.00
453	12Tx1.5mm2	200	MTRS.	680.00	1,36,000.00
454	1Tx1.5mm2	180	MTRS.	100.00	18,000.00
455	6Px0.5mm2	200	MTRS.	15.00	3,000.00
456	2Px1.5mm2	200	MTRS.	600.00	1,20,000.00
457	Cat 5 (LAN)	160	MTRS.	50.00	8,000.00
458	3C x 2.5mm2	240	MTRS.	150.00	36,000.00

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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459	Supply & laying of Instruments cable tray with tray cover (Branch Cable tray (50mm x 50mm), Main cable tray 900 mm, cable tray 300mm, cable tray 150 mm.) as per requirement, instruments/ PGD, CCTV/ mounting poles, instrument protection sun sheds, angles, channels, MS plates & all the erection materials and as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including installation of support, cable clamping, installation of tray cover and support painting.	1	LS	2,30,000.00	2,30,000.00
460	Supply , installation & laying of tubes and fittings as per requirement and as per PTS-Instrumentation with appendices and Scope of Work C&I. SS 316L TEE (1/2", Class 3000#, Screwed, NPTF, Seamless) ,SS316L GLOBE/BALL VALVE (1/2", Class 800#, Screwed, NPTF, Seamless), SS316L PLUG (1/2", Screwed, NPTM, Hex head, class 3000#), SS316L PIPE NIPPLE (½" NPTM, seamless, schedule #160) Length of the pipe nipple as per requirement, SS316L MALE CONNECTOR (1/2" OD x 1/2" NPTM), SS316L FEMALE CONNECTOR (1/2"OD x 1/2" NPTF), SS316L UNION (1/2" OD), SS316L TUBE (1/2" OD x 0.065" WT), SS316L TUBE (1/4" OD x 0.035" WT)	1	LS	2,32,000.00	2,32,000.00
461	Supply of mandatory spares as per Mandatory Spare (P.017110 G 11075 I001)	1	LS	73,300.00	73,300.00
462	AT Jharia - Installation of metering skids, metering cabinet under the supervision of skid supplier, cable laying and terminal of cable from skid junction box to metering system cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	3,62,000.00	3,62,000.00
463	At Jharia Installation of gas chromatograph skid, analyser & controller cabinet under the supervision of skid supplier, cable laying and terminal of cable from analyser cabinet to controller cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	3,73,000.00	3,73,000.00
464	At Jharia Installation of H2S & Moisture analyser skids, cabinet under the supervision of skid supplier, laying and terminal of cable from skid field mounted cabinet to LCP/RTU. Including supply of all the required erection, fabrication and civil materials.	1	LS	2,03,000.00	2,03,000.00
465	At SV 28 Spare Input output available in existing RTU, internal wiring at site, field connection, configuration and commissioning., interfacing with LCP and configuration of new parameters in existing RTU, as per Scope of Work.	1	LS	1,28,000.00	1,28,000.00
466	**Sub-Total Section F**				**1,31,94,402.00**
467	**SECTION-G [TELECOM WORKS]**				
468	Supply Telecommunication system, SDH equipment STM-4 Based SDH Cabinet of (2000H x 800W x 800W along with 100 mm base frame) as per below configuration: - 2*STM-4 + 2*STM-1 + 8FE ports as per PTS-Telecommunication system (P.017110 G 11077 I002), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including erection, testing, integration with existing NMS at Noida, Commissioning and integration with existing telecom system at SV 28 additional SFP of L4.2 for SV 28 connectivity	1	Nos	1,75,000.00	1,75,000.00
469	Supply of CCTV-IP based Fixed colour camera and PTZ colour camera along with power cable, communication cable at each station as per PTS-Telecommunication system (P.017110 G 11077 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work., including erection, testing, integration with existing VMS at Noida, Commissioning and integration with existing telecom system at SV 28				
470	Fixed Camera WP IP65	1	Nos	62,000.00	62,000.00
471	PTZ camera WP IP65	1	Nos	8,68,000.00	8,68,000.00
472	Supply of one Analog phones control room, one number in guard room and one number WP IP66 in field safe area as per PTS-Telecommunication system (P.017110 G 11077 I002) , PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work				
472	Analog Phone	2	Nos	7,600.00	200.00

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474	Analog Phone Ex Proof WP IP 65	1	Nos	8,000.00	8,000.00
475	FXO cards	1	Nos	3,000.00	3,000.00
476	FXS	1	Nos	38,000.00	38,000.00
477	Five pair armoured telephone cable, size 0.5mm2	100	MTR.	150.00	15,000.00
478	AT Jharia- Free issue RTU by GAIL: Transportation from Gail store to site location, installation, cabling from LCP to RTU, commissioning etc. Erection, installation of RTU inside the station control room including supply of all the required erection materials, fabrication and civil works	1	LS	98,000.00	98,000.00
479	At SV 28 Spare Input output available in existing RTU, internal wiring at site, field connection, configuration and commissioning., interfacing with LCP , cable laying from LCP to RTU, and configuration of new parameters in existing RTU, as per Scope of Work.	1	LS	56,000.00	56,000.00
480	**Sub-Total Section G**				**13,38,200.00**
	Total of Section A + B + C + D + E + F + G				**11,11,55,971.00**
479	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Total of Section A + B + C + D + E + F + G above	18	percentage	18	2,00,08,074.78
480	Rate of Extended Stay Compensation per month beyond the time schedule and grace period mentioned in Bidding document for reasons solely attribute to Owner (exclusive of GST) Notes:- 1;- Extended Stay Compensation shall be loaded on the quoted price as per evaluation methodology. 2;- In case, no rate for extended stay compensation is stipulated, it will be considered that extended stay compensation is not required by the Bidder and the rates quoted by them shall be valid till completion of works in all respects.	1	Nos	6,50,000.00	6,50,000.00
481	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Extended Stay Compensation at Sl. No. 480 above	18	percentage	18.00	1,17,000.00
	Grand Total				13,19,31,045.78

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				UNIT RATE	TOTAL RATE
1	**SECTION-A (MAIN LINE WORKS)**				
2	**CH.0.00 KM to CH.5.667 KM**				
3	**MAINLINE, PIPING AND MECHANICAL**				
4	PIPELINE LAYING / INSTALLATION Laying/ installation of coated line pipe, associated fittings and accessories, etc. as per specifications, drawings, other provisions of Contract and instructions of Engineer-in-Charge, including but not limited to carrying out the following: "Receiving and taking-over", handling, loading, transportation and unloading of Owner supplied coated and bare line pipes and other Free Issue Materials from Contractor's own stock-yard to Work site including stringing on the pipeline Right-of-Use (ROU), Arrangement of all additional land required for Contractor's storage, Performing the additional survey wherein survey data is not sufficient in the opinion of Contractor, arrangement of working RoU if RoU width is not sufficient for equipment/ vehicle movement etc., access for construction (other than Owner provided ROU; Developing necessary access way to the worksite, including earth filling, levelling, etc.; supply of all materials (except Owner supplied materials), supply of all materials, consumables, equipment, labour, etc.; fabrication, Staking and installation of construction markers, clearing, grubbing, grading (as required) of Right of Use; clearing and grading of ROU; Cutting/ uprooting of shrubs, plants, vegetation within ROU; , Trenching to all depths and to a width to accommodate the pipeline with optical fiber cable (inside HDPE Duct) by excavation in all types of soil (in case of hard rock, additional payment for hard rock breaking will be paid as per separate SOR line item), including additional trenching for seismic and other areas as specified,(Rate for laying of optical fibre cable and HDPE Duct not be included here and same to be quoted against separate SOR item); Carrying out repairs of pipe and coating defects not attributable to Owner; Thorough internal cleaning of all pipes by suitable methods to remove debris, shots, grits etc.; Stringing of line pipes along ROU including providing straw bags, soft padding/sand padding; Aligning, cold field bending, cutting and beveling (as required) of pipes for welding and field adjustments, NDT & NDT of re-beveled area, welding, carrying out destructive & non- destructive testing of welds required as per approved NDT specifications (including radiography) and providing all requisite equipment, labour, supervision, materials, films, consumables etc.; carrying out repairs of weld joints as required, carrying out re- radiography and other non-destructive tests on repaired joints, etc.; Installation of carrier pipe including concrete coated pipes (wherever required).				
5	(Concrete Coating on pipes, covered separately) at all crossings including roads/ canals/ nala/ water crossings etc. (supply and installation of casing pipe by open cut or by Jacking/ boaring method covered separately) including pre-testing as required; Carrying out installation of carrier pipe in the casing pipe at cased crossings; Coating of all field weld joints, long radius bends (fabrication of Cold field bends covered here and fabrication of 6D bends by induction heating covered separately), buried fittings etc.; Supply & Installation of warning tape along the entire length of Pipeline including Crossing. Lowering the pipelines in trench, providing required padding over and around the pipeline with sand/graded material (in rocky areas), backfilling with available approved excavated material and/or other suitable soil (supply and providing of soft soil for pre & post padding in Rocky area); Supply and installation of slope breaker as per specifications and drawings in steep slope areas, wherever required; Carrying out hydrostatic testing including air cleaning, flushing, filling, gauging, pressurization of complete pipeline in various test sections as approved by Engineer-In-Charge to the specified test pressure, providing all equipment, pumps, fittings, instruments, dead weight tester, all types of pigs etc., and services, supervision, labour, consumables, arranging water required for hydrostatic testing including supply of corrosion inhibitor, air, etc. as required, locating of leaks and rectification of defects attributable to Contractor, re-testing after rectification, successful completion of hydro-testing of pipeline (De-watering covered else where in the SOR); including all tie-in(s) with the pipeline/ piping installed by others including cutting of test header, re- beveling as required; Carrying out all temporary, ancillary, auxiliary works and all incidental works required to make the pipeline ready for pre- commissioning; Carrying out EGP for the entire stretch of completed pipeline, Repair of defects recorded during EGP/gauge plate run or otherwise including cutting, beveling, welding, NDT, field joint coating etc.; as applicable, Final clean-up and restoration of right of use including obtaining NOC from respective statutory authorities as required and disposal of debris and returning all surplus material to designated disposal areas/storage yard, as directed by Engineer-In-Charge; Restoration of land, facilities and boundary wall etc. at associated facilities dismantled/damaged by the Contractor during construction; Obtaining work permits/ NOC from various statutory authorities having jurisdiction and complying with all stipulation/conditions/recommendation of the said authorities; Preparation of as-built drawings, pipe-book and other records. SOR shall be read in conjunction with Project drawings, scope of work, specifications, standards and other provisions of contract document. The work includes the Survey data & site preparation, Stringing/Chainges in direction, Beveling of pipe element, Welding Procedure Qualification & Welders Qualification, Welding of pipe element, Inspection & testing of production welds, Field joint coating, controlled blasting, chiseling, etc., Material hand over & material handling, Lowering-in & ballasting, All crossings except HDD as mentioned in Crossing List (including installation of carrier pipe inside the Casing at cased crossing), Backfilling (for all depths in all types of soil, soft /hard rock), including trench padding with sand, graded earth in rocky areas & rock shield(if required as per specs) reinstatement				
6	All above works shall be executed in accordance with scope of work, GTS, PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. 1. Supply and Installation of OFC and HDPE Ducts along the entire pipeline route, adjacent to the new pipeline, along with all required accessories, fittings and associated items, is covered separately in the SOR. All above works for buried pipeline (including hook-up pipeline from Tap Off Point inside ONGC GCS, Jharia upto proposed plot for GAIL DT), as per following details :				
7	ND 8", API5L X60 - 6.4 mm	4250	M	2,200.00	93,50,000.00
8	ND 8", API5L X60 - 7.1 mm	1588	M	2,200.00	[illegible]500.00

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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9	Concrete slabs (Mechanical Protection) as per technical specifications Supply, fabrication and installation of reinforced concrete weights. Reinforced steel size should be 8 mm. top and bottom at a rate of 200 mm c/c of precasted RCC 1:2:4 on pipeline of wall thickness of 75 mm thick and size as per specifications & Standard drawings and instructions of Owner/ Owner's representative including supply of consumables, materials, equipment, labor, supervision, all associated civil works.	110	M	4,500.00	4,95,000.00
10	Continuous Concrete Coating Supply of all consumables and materials, equipments, manpower, submission of application procedure with calculations for anti-buoyancy, design mix procedure qualification and application of continuous concrete weight coating thickness mentioned below (higher also, in case design requirements) on pipeline of all thickness, concrete weight coating of the field joints thereof, and performing all works as per specifications and instructions of Owner/Owner's representative and other provisions of CONTRACT DOCUMENT.				
11	25 mm thick	12	M	4,500.00	54,000.00
12	30 mm thick	12	M	4,600.00	55,200.00
13	GEO TEXTILE BAGS FOR ANTI-BUOYANCY				
14	Additional works over and above item no. 4 to 8 for design, manufacture and supply of Non-biodegradable geo-textile bags and installation of geo-textile bags duly filled with gravel/ stone ballast on pipelines of all wall thicknesses for anti-buoyancy, drawings, scope of work and instructions of Engineer-in-Charge and other provisions of the Contract document.				
15	ND 8" (for all thicknesses)	12	M	4,600.00	55,200.00
16	Permanent Markers Supply, fabrication and installation of following types of permanent markers along the pipeline route including all associated civil works such as excavation in all types of soil, construction of pedestals and grouting with concrete, clearing, supply & application of approved color and quality of primer and paint, stencil letter cutting for numbers, direction, chainage, etc. restoration of area to original condition and performing all works as per drawings, specifications and instruction of Owner/Owner's Representative.				
17	Pipeline Warning Signs	14	Nos	5,600.00	78,400.00
18	Right-of-way boundary markers	22	Nos	1,200.00	26,400.00
19	Kilometer Markers	4	Nos	5,600.00	22,400.00
20	Aerial Markers	1	Nos	5,600.00	5,600.00
21	Directional Markers	69	Nos	4,600.00	3,17,400.00
22	Repair of Defects in Pipe Coating (Attributable to OWNER)				
23	Repair of Line Pipe Coating: Supply of all coating repair materials as per the requirements of the relevant specifications, supply of all consumables, utilities, equipment, and all manpower required, pipe cleaning and surface preparation, repairing of coating defects (resulting in holiday in coating) and testing including all handling, transportation, etc. for line pipes, performing all works necessary for the completion of the works strictly in accordance with the relevant specifications and instructions of OWNER.				
24	Repair of Holidays in Coating	20	Nos	1,000.00	20,000.00
25	Repair of Cosmetic Defects in Coating: Description of same as in item no 23 above, but for repair of cosmetic defects in coating.	30	m3	1,000.00	30,000.00
26	**Repair of Defects in Line Pipes**				
27	Repair of OWNER supplied pipes of all wall thicknesses, recorded at the time of taking-over by CONTRACTOR at all places of work.				
28	Cutting and rebevelling	15	Nos	1,000.00	15,000.00
29	Jack out method	15	Nos	1,000.00	15,000.00

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30	All works for locating burst (occurred during hydrostatic testing and tightness test attributable to Owner issued materials) including detecting burst, necessary repairing/replacing defective pipe lengths, including cutting out and removing the defective pipe, pretesting the replacement pipe, welding of replacement pipe into mainline and NDT of welding, repair and re-testing of defective welds, coating of welded joints, cleanup, retesting including providing all labor, materials, consumables and inputs other than OWNER supplied materials and performing all works as per drawings, specifications and directions of Owner/ Owner's representative. In case of pinhole leaks not easily detectable all works for locating leak (occurred during mechanical resistance test and tightness test attributable to Owner issued materials) including detecting leak, The Payment will be made as per actual efforts and based on Equipment and manpower Rate provided in SCC . Further replacement & retesting will be paid as above.	2	Per burst	10,000.00	20,000.00
31	LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER) (FOR TERMINAL PIPING) LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER DUE TO FIM) All works for leak/burst (occurring during hydrostatic testing) by necessary repair/replacement of defective pipe length, including cutting and removing out defective pipes, welding, NDT of welds, repair and re-testing of defective welds, painting of welded joints, clean-up, re hydro testing of the pipe segment including providing all necessary equipment, labour, materials, consumables and inputs other than Owner supplied materials and performing all works as per drawings, scope of work, specifications, standards enclosed with the Contract and directions of Engineer-in-Charge. Note: 1. This rate shall be applicable for manufacturing defects in Company supplied materials only.	6	Inch-meter	1,000.00	6,000.00
32	IDLE TIME PRESERVATION OF PIPELINE Preservation of complete pipeline and associated facilities and its maintenance including supply of all consumables, all equipment, man- power, etc., complete as per the requirements of specifications, scope of work, standards, other provisions of Contract document and instructions of Engineer-in- Charge. By filling and pressurizing with nitrogen including supply and maintenance of nitrogen as per following details:				
33	Pipe OD - 8 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - 3 MONTH	6030	M	24.00	1,44,720.00
34	Pipe OD - 8 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - FOR EVERY ADDITIONAL MONTH BEYOND INITIAL 3 MONTHS	6030	M	24.00	1,44,720.00
35	**PRE-COMMISSIONING FOR NATURAL GAS PIPELINES SYSTEM, Carrying out pre-commissioning activities and pre-commissioning checks to the specified acceptance criteria, making the entire pipeline system ready for commissioning (It includes cleaning including magnetic cleaning, Electrical Geometrical Pigging survey, dewatering, swabbing,, pre-drying activity, Golden-tie ins connecting the stations),, supply of all equipment, man-power, consumables, including all type of pigs and required quantity of nitrogen, materials for all temporary works and performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.**				
36	Pipe OD - 8 INCH	6030	M	20.00	1,20,600.00
37	**Commissioning Assistance**				
38	OVERALL COMMISSIONING OF ENTIRE PIPELINE SYSTEM Overall commissioning including system checks, inertisation (as required) and charging of entire pipeline system, including all stations and all associated facilities including notifying the Company that the pipeline system is ready for commissioning; Review of status jointly with the Company and obtaining final clearance for start of commissioning; Development and submission of commissioning procedures, obtaining Company approval thereupon, carrying out overall commissioning of the total pipeline system including all facilities and all necessary coordination/ liaison with other Contractor(s) operations; Carrying out commissioning; Supply of all equipment like Nitrogen vapourisers (as required), along with all piping and instruments, temporary venting/ flaring/draining facilities as applicable, man-power, consumables including pigs and required quantity of Nitrogen (as required); Performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.				
39	Pipe OD - 8 INCH	6030	M	15.00	90,450.00
40	PIPELINE INFORMATION MANAGEMENT SYSTEM Providing pipeline information management system using web based software for monitoring pipeline construction progress and providing all "As Built" data & drawings for entire length of pipeline as per specifications enclosed with the tender document.	1	LS	10,00,000.00	10,00,000.00
41	VIDEO FILM & PHOTOGRAPHY OF CONSTRUCTION ACTIVITIES Preparation of high resolution video films with audio commentary and Industrial photography covering all aspects/activities of pipeline construction annotated as required, conversion of same to video DVD/Blue Ray format, submitting three (3) sets of the same as per details in scope of work document	1	LS	5,00,000.00	5,00,000.00
	FABRICATION OF LR BENDS :				

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43	Fabrication of 6D bend / LR (Induction) bends as per the relevant standard & Specification attached with the tender document from free issue linepipes (mother pipe) including but not limited to the following: "Receiving and taking over of free issue linepipes" from GAIL Dump Yard location as mentioned in Scope of Work, carrying out inspection of line pipe at the time of receive taking over in the presence of Company representative, carrying out repair of pipe defects attributable to Contractor after taking over, including supply of consumables & equipments; handling, hauling, transportation and loading/unloading required to transport the mother pipes between place of issue, LR bend fabricator/ manufacturer, intermediate storage as required, and final delivery of fabricated LR Bends to the worksite(s), as per requirement, Manufacturing/ fabricating of LR Bends, as per project requirements and Specifications. LR bends exact angle(s) shall be as per pipeline alignment. Note:- 1. Rate for repairing of defects in linepipes identified and recorded at the time of receiving & taking over i.e. defects attributable to Company shall be quoted separately in the applicable items of the SOR. 2.Loading of Pipe into installation contractor trailer shall be carried out by the GAIL Dumpyard maintenance agency already engaged by the Company.				
44	Bare Pipe ND 8", API5L X60 - 6.4mm	8	Nos	85,000.00	6,80,000.00
45	Bare Pipe ND 8", API5L X60 -7.1 mm	15	Nos	85,000.00	12,75,000.00
46	**SUPPLY AND INSTALLATION OF CASING PIPE & 6 INCH CS CONDUIT:** Supply and installation of casing pipe and 6 inch CS conduit for OFC by jacking / boring or open cut for rail, road or canal crossings wherever required in all types of soils and terrain separately for carrier pipes and fibre optic cable inside HDPE duct, supply of casing pipes and all other Contractor supplied materials viz. casing insulators and casing end seals as per enclosed drawing, materials for casing vents and drains, etc. including transportation, supply of all other materials, equipments, consumables, man-power, welding including visual inspection of all weld joints, installation of casing insulators, end seals, vents and drain-off pipes, backfilling and restoration as original of the facility crossed and performing all works as per drawings, specifications including PTS and GTS and instructions of Engineer-in Charge and provisions of Contract document.				
47	Supply and installation of Casing pipe by Boring / Jacking as per item no. 46 (Railway crossing) Casing Pipe Details: (Pipe 14" , 8.7 mm Thick, API 5L GR.B)	200	M	10,000.00	20,00,000.00
48	Supply and installation of Casing pipe by Boring / Jacking as per item no. 46 (Other than Railway Crossings) Casing Pipe Details: (Pipe 14" , 6.4 mm Thick, API 5L GR.B)	12	M	15,000.00	1,80,000.00
49	Supply and installation of 6 inch CS Conduit by Boring/Jacking as per item no. 46 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	200	M	7,000.00	14,00,000.00
50	Supply and installation of Casing pipe by open cut as per item no. 46 Casing Pipe Details: (Pipe 14" , 6.4 mm Thick, API 5L GR.B)	12	M	9,000.00	1,08,000.00
51	Supply and installation of 6 inch CS Conduit by open cut as per item no. 46 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	12	M	4,000.00	48,000.00
52	**HDD CROSSING**				

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53	**Generalities**				
54	Topographic / Bathymetry, Geotech Investigation and Hydrological data collection				
55	Site preparation				
56	Design & stress calculations as per requirement				
57	Material hand-over and material handling				
58	Site reinstatement				
59	Final dossier including all notes & calculations as required in the specification				
60	***Installation of 6 inch CS Conduit***				
61	Teletransmission--Separate Drilling for 6 inch CS Conduit for OFC installation				
62	Installation of HDPE duct & OFC cable inside 6 inch CS conduit				
63	Drilling & Pulling of 6 inch CS Conduit shall be done before mainline HDD.				
64	***Pipeline string***				
65	Beveling & welding				
66	Inspection & testing of welds				
67	Field joint coating				
68	Temporary support (roller)				
69	Control of pipeline string				
70	Hydrotesting & leak test				
71	***Drilling operation***				
72	Earthwork entry / exit points including grading erection of embankment etc..				
73	Supply & clearing out of all material needed for drilling				

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74	Drilling of washer pipe, reaming & cleaning of drill opening, supply and preparation of bentonite				
75	Pull back of the pipe string				
76	Disposal of surplus of soil & bentonite				
77	Control of the integrity of the coating				
78	***Work at entry point***				
79	Changes in direction				
80	Beveling & welding				
81	Inspection & testing of welds				
82	Field joint coating & coating of all bare section of pipe				
83	Earthwork				
84	Lowering-in				
85	backfilling as required				
86	***Work at exit point***				
87	Changes in direction				
88	Beveling & welding				
89	Inspection & testing of welds				
90	Field joint coating & coating of all bare section of pipe				
91	Earthwork				
92	Lowering-in				
93	backfilling as required				

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94	Complete work for the water/ Road/ Rail crossings, including taking over and handling of linepipes from Contractor Storage Yard to worksite, Arrangement of all additional land required for Contractor's storage, fabrication, access for construction; construction design calculation and engineering of the crossing, mobilization and demobilization at site(s), supply of all materials as per "Scope of Supply" and all consumables, equipment, manpower and other resources, and acquiring the required land for site preparations, and execution of, but not limited to, the following works in accordance with specifications, drawings, and as per provisions of the Contract document and instructions of the Company/ Engineer-in- Charge: Carry out all surveys required for collecting data relevant to design and construction of the crossing, preparation of all necessary construction drawings for Company's approval as per the provisions of the Contractor document, Preparation of detailed construction method statement and calculations including Scour Depth calculations for river/ canal crossings, Strings preparation including welding, 100% Radiography of welds, NDT of welds and re-beveled areas, radiography, weld repair and re-test, pre-testing of completed string, corrosion coating of field joints with Dirax or equivalent, inspection of corrosion coating and repair of defects, Preconstruction surveys and collection of all necessary data, Installation of pipeline and CS conduit (6 Inch CS Conduit shall be installed through Seperate Drilling) , horizontal directional drilling to the correct profile as per approved drawings and specification, Post-installation hydrotest including leaks and repair of defects and retesting, etc. for defects attributed to Contractor's faulty work, Supply, fabrication and construction of protective fencing as required, Hydrotesting, Supply, fabrication and erection of pipeline markers, Restoration and clean-up etc., Preparation of as-built drawings and other records etc., All other works not specifically listed herein, but required as per specifications, drawings, provision of contract document, calculations, and construction method statements, leading to successful completion of works.				
95	Linepipe details:- (Pipe 8" dia, Wall Thickness: 7.1 mm, Pipe Grade: API 5L GR.X-60 PSL 2, External Coating: 3LPE) CS Conduit details: (Pipe 6" dia, 6.4mm Thick, API 5L GR.B) Note: 1. CS Conduit shall be supplied by the Contractor. Radiography & Hydrostatic testing is not required to be done for CS Conduit. (6 Inch CS Conduit shall be installed through Seperate Drilling) Contractor shall quote accordingly. 2. The rate shall be applicable for the drilled length of the HDDs. All above works shall be executed in accordance with scope of work, GTS,PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. This line item is applicable for HDD crossing mentioned in the Crossing List with prior approval of Engineer - In-Charge during Construction.	192	M	7,000	13,44,000.00
96	**SUPPLY & INSTALLATION OF OPTICAL FIBBE CABLE AND HDPE DUCT**				
97	Suppy of 24 Fibre Composite armoured Optical Fibre Cable drum (6 fibre G-655 & 18 fibre G-652) of 4 km +/-5% Cable drum length with fiber terminal closure, inspection chamber, electronic route marker all along pipeline route, Two number electronic locater as per PTS-Optical Fibre cable and Scope of Work C&I along with all required accessories and fitments not mentioned seperately.	7000	M	105	7,35,000.00
98	Inspection/Jointing Chamber (fabricated or readymade)	3	Nos	16,000	48,000.00
99	Blowing Pit (fabricated or readymade)	7	Nos	16,000	1,12,000.00
100	Supply of jointing closure 24 Fiber, 2 way including all accessories (3M, Siemens, Reychem make only)	3	Nos	5,500	16,500.00
101	Supply of End to End OFC termination of wall mounted FTC with pig tails other accessories for termination of OFC - 24 Fibre in the Telecom Room at Jharia & SV28	2	Nos	24,000	48,000.00
102	Electronic marker	3	Nos	4,000	12,000.00
103	Electronic Locator	1	Nos	4,00,000	4,00,000.00
104	Supply of 50mm OD permanently lubricated HDPE telecom duct along with all the required accessories as per PTS-Optical Fibre cable and Scope of Work C&I	7000	M	105.00	)00.00

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105	Laying of HDPE Duct : Laying of 50mm HDPE Ducts in same pipeline trench direct buried, or inside 6 inch CS conduit at various crossings as per Specification in all type of soil & terrain, excavated as required, padding, backfilling, etc. including supply of accessories required for HDPE Duct installation, including plastic couplers, end plugs, cable sealing plugs, end caps, etc. suitable & sufficient for above supplied ducts, cleaning and sealing of ducts at the end laid drum lengths, preparation and supply of cable blowing pit at each Km jointing of HDPE duct, testing of HDPE Duct and accessories after laying preparation of report and final drawing and documents as per specification, joint location marking, erection accessories, as-built, etc.	7000	M	10.00	70,000.00
106	Blowing of Optical Fibre Cable inside HDPE Duct : All activities pertaining to Blowing of Optical Fibre Cable in same pipeline trench directly (after testing drum at site), inside HDPE duct along the pipeline and at crossing, sealing using all materials required as per specification	7000	Nos	50.00	3,50,000.00
107	Installation of FTC & Wire mesh, termination of OFC on FTC / DDF inside telecom room, splicing with steet fibre, fibre test, OTDR test, power testing of laid OFC, identification of fault, rectification, earthing, final testing and commissioning, preparation of reports, etc. work complete in all respect with all necessary accessories for all location till final Handing Over and Taking Over by Owner of laid OFC.	1	LS	5,000.00	5,000.00
108	**TRANSPORTATION OF COATED AND BARE LINEPIPES FROM GAIL DUMPYARDS (ANY LOCATIONIN INDIA) TO CONTRACTOR STORAGE YARD:**				
109	"Receiving and taking over" of "free issue" Linepipes from GAIL Dump Yard location (any location in India); Carrying out inspection of Linepipes at the time of receiving and taking-over, recording of pipe & coating defects at the time of taking over in the presence of Company's representative, carrying out repair of coating defects & pipe defects attributable to Company; including supply of materials, consumables & equipments; handling, hauling and transportation from designated place of issue to Contractor Storage Yard; unloading and stacking of the linepipes at Contractor Storage Yard; including arranging all equipments, trailers, trucks & manpower; all works as per Scope of Work, drawings, PTS, GTS and other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, Provision of Contract & instructions of Engineer InCharge.				
110	Linepipe Details:- Coated and Bare Line Pipe 8" diameter API 5L Gr. X-60 PSL-2 Wall Thickness - 6,4mm / 7.1mm External Coating - 3LPE, Internal Coating - Liquid Epoxy 1) Loading of Pipes into Installation contractor's trailer shall be carried out by the contractor. 2) Development & Maintenance of Contractor Storage Yard adequate to store the linepipes including arrangement of all Lifting & Handling equipment at Contractor's Storage Yard shall be done by the Contractor. Rate for the same shall be quoted in applicable items. 3) Rate for repairing of coating defects in linepipes identified and recorded at the time of receiving & taking over i.e. coating-defects attributable to Company shall be included in this item. 4) Rate for repairing of pipe-defects identified and recorded at the time of receiving & taking over i.e. pipe-defects attributable to Company shall be quoted separately in the applicable items of the SOR. 5) Transportation of line pipe from Contractor's Storage Yard to work site is included in SOR item 1 above, No separate payment will be applicable for the same.	350000	Ton-Km	20.00	70,00,000.00
111	TRANSPORTATION OF FREE ISSUE PIPING ITEMS (OTHER THAN LINE PIPE) FROM GAIL STORAGE YARDS (ANY LOCATION IN INDIA) TO CONTRACTORS YARD / WORKSITE(S) : "Receiving and taking-over", handling, lifting, loading, transportation and unloading of Company supplied "free-issue materials" (Other than line pipe) viz. Metering Filtering and PRS Skid, Scrapper Launcher/ Receiver & accessories, Valves with or without Actuators, Insulation Joints, Flow Tee, Pig Signallers, fittings, flanges etc. from GAIL Storage yards location (any location in India) to Contractor's Storage Yard / work-site(s). Note:- 1) Location of GAIL Storage Yard shall be anywhere in India. Contractor shall quote accordingly. 2) Transportation of FIM from Contractor's Storage Yard to work site, is included in SOR item 119 below, No separate payment will be applicable for the same.	24000	Ton-Km	25.00	6,00,000.00
112	**DEVELOPMENT OF CONTRACTOR STORAGE YARD:**				

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113	Development of the Contractor Storage Yard including fencing, illumination etc., including deployment of all lifting and handling equipments, manpower required to stack, unload and load all Free Issue Material (FIM) including Line Pipes and all bought out items, as required; storage of all Free Issue Material and bought out items for the required duration as per project requirement, all works as per Scope of Work, drawings, other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, PTS, GTS and Provision of Contract & instructions of Engineer In-Charge. The storage yard shall be used for storage of all Free Issue Line pipes, all other Free Issure Material (FIM) and all bought out items required for the project. Notes:- 1) Development of contractor storage yard adequate to store all the material required for Project, including all Free Issue Material (FIM) and bought out items. (Rate for the same shall be captured in this item) 2) Maintenance of contractor storage yard for the entire project period is included in the scope of contractor. No separate payment shall be applicable for the same.	1	LS	6,00,000.00	6,00,000.00
114	Hard Rock breaking by controlled blasting / chiseling method (rate will be applicable in case when prior approval for rock breaking is obtained by the contractor from GAIL / PMC)	50	M3	5,500.00	2,75,000.00
115	Clean Agent Fire Supression System as per Scope of Work	1	LS	2,50,000.00	2,50,000.00
116	Restoration of underground utilities (pipes & cables) during excavation at ONGC, GCS Jharia and Receiving Station (which is inside SV-28 Premises)	5	Nos	50,000.00	2,50,000.00
117	**Sub-Total Section A**				**3,46,01,190.00**
118	**SECTION-B [MECHANICAL (PIPING & TERMINAL WORKS)]**				
119	**PIPING WORKS AT DESPATCH AND RECEIVING STATIONS AND HOOK-UP WITH ONGC GCS, JHARIA** All works for installation of all piping at all elevations for Despatch and Receiving Stations as indicated in Drawings, Scope document, including supply of all consumables, Gaskets, nuts, bolts Studs, manpower, materials and equipment (except Company supplied free-issue materials), aligning, grouting, tie-in with pipeline and carrying out all mechanical works of underground and above ground piping including fabrication, welding, installation of all pipes, valves (manual & actuated), flanges, fittings, flow tees, pig signalers, insulating joints, corrosion monitoring probes /corrosion coupons, installation of instruments (pressure/temperature gauges, vents, drains-off, safety relief valves, electro hydraulic valves etc.) as indicated in P& IDs and GADs. 100% Radiography of weld joints of piping above 1.5 inch, Magnetic particle & Die penetration test for piping 1.5 inch & below, all NDT of welds, weld repairs/retesting, hydrostatic testing, cleaning/flushing, functional testing, de-pressurizing , Drying and dewatering, cutting and re-beveling (as required), hookup of all pipeline/utilities at the battery limit with the pipeline/utilities installed by others, obtaining all statutory clearances, approvals and permissions for the work (wherever required), excavation and filling in all types of soils including soft/hard rock for installation of piping/ pipe supports; corrosion coating and external painting (as required), finishing, clean-up and restoration of site, preparation of as- built drawings, documents and project records and performing all works as per drawings, specifications, other provisions of Contract document and instructions of Engineer-in-Charge. Civil/ structural works for piping supports will be paid separately as per unit rate provided elsewhere in the contract. Cost of Transportation of all materials (Including FIM mentioned above) for station works, from Contractor's own stock-yard to Work site, to be included in this SOR item. No separate payment will				
120	Fabrication and Erection of piping as per item no.110, (For Pipe Size 2 Inch and above, 100% Radiography) Note: 1. Rate for Handling, Fabrication and erection of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item. Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor.Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes 2" & above, shall also be part of this item. Contractor shall quote accordingly.	1500	INCH DIA METER	800.00	12,00,000.00
121	Fabrication & Erection of Piping as per item no. 110 (For Pipe Size Below 2 inch, Magnetic particle & Dye Penetration Test as per the requirement of specification) Note: 1. Rate for Handling and installation of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item.Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor. Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes below 2", shall also be part of this item. Contractor shall quote accordingly.	50	INCH DIA METER	600.00	30,000.00
122	Painting of Piping (Pipe, Fittings, Flanges, Valves, Equipments, etc.) as per item no. 110	1550	ICH METER	75.00	1,16,250.00

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123	Hydrostatic testing, cleaning / flushing, functional testing, de-pressurizing, dewatering & drying of Piping as per item no. 110 (for all size upto 10").	1550	ICH METER	100.00	1,55,000.00
124	**INSTALLATION OF COMPANY SUPPLIED FIM (FML SKID AND PIG LAUNCHER/RECEIVER SYSTEM) AT DESPATCH TERMINAL AND RECEIVING TERMINAL**				
125	Installation of Company supplied Filtering, Metering and PRS Skid and Scrapper Launcher/ Receiver with accessories, at stations including all handling and installation works; as per drawings, specifications enclosed with the Contract and directions of Engineer-in-Charge. Cost of Transportation of above Free issue items, from Contractor's own stock-yard to Work site for station works, to be included in this SOR item. No separate payment will be applicable for the same.	1	LS	1,50,000.00	1,50,000.00
126	**CONTRACTOR SUPPLIED ITEMS:(Supply of Items as per attached PTS,GTS,Data Sheet,QAP and PMS)**				
127	**Station pipe -Seamless**				
128	1" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, PE, SEAMLESS	6	METER	800.00	4,800.00
129	2" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	90	METER	1,100.00	99,000.00
130	4" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	135	METER	1,800.00	2,43,000.00
131	8" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	50	METER	2,500.00	1,25,000.00
132	8" pipe, 6.4mm thk, ANSI B 36.10, API5L X 60, BE, HFERW/SEAMLESS	29	METER	2,800.00	81,200.00
133	10" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	12	METER	6,500.00	78,000.00
134	**Supply of Fitting & Flanges**				
135	1 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 350 LF2,CL1, BW, ANSI B16.25	4	Nos	500.00	2,000.00
136	2 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25.	3	Nos	650.00	1,950.00
137	1" WNRF FLANGES, 6C1, SCH. 160 / 600#, WNRF, B-16.5, ASTM A350 LF2, CL1, BW-ANSI B16.25 RF	4	Nos	800.00	3,200.00
138	8", WNRF FLANGES, 6C2, 6.4 thk/ 600#, WNRF, B-16.5, ASTM A694 F60 OR EQUIVALENT, CL1, BW-ANSI B16.25 RF.	5	Nos	9,500.00	47,500.00
139	1", BLIND FLANGES, 6C1, 600#, RF, B-16.5, ASTM A350 LF2, CL1, RF	4	Nos	800.00	3,200.00
140	3/4" EQUAL TEES, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25,	1	Nos	450.00	450.00
141	3/4", CUP THREADED 6C1, 6000#, ANSI B16-11, ASTM A 350 LF2, CL1 , BW - ANSI B16.25, ANSI B1.20.1,	3	Nos	450.00	1,350.00
142	**WELDOLETS (MAINLINE x BRANCH SIZE)**				
143	4" x 1", WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1 ,	2	Nos	3,500.00	7,000.00
144	8" x 2" WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 6.4 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 694 F60	13	Nos	3,500.00	45,500.00

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145	8" x 2", WELDOLETS (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	26	Nos	3,500.00	91,000.00
146	**GASKETS**				
147	GASKETS, 6C1, 600#, RF, ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 1"	12	Nos	85.00	1,020.00
148	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 2"	210	Nos	120.00	25,200.00
149	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 4"	30	Nos	350.00	10,500.00
150	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 8"	47	Nos	350.00	16,450.00
151	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 10"	2	Nos	600.00	1,200.00
152	**NIPPLES**				
153	NIPPLES, 6C1, Sch 160 /600#, ANSI B 36.10, ASTM A333 GR.6, BOTH ENDS PLAIN, SEAMLESS-LG=100mm, 3/4"	12	Nos	450.00	5,400.00
154	NIPPLES, 6C1, Sch 160 / 600#, ANSI B 36.11, ASTM A333 GR.7, ONE END THRD -MNPT SEAMLESS- LG=100mm, 3/4"	8	Nos	450.00	3,600.00
155	**INSULATING JOINT**				
156	INSULATING JOINT 6C,16.4 mm (X60) x 600# ,MANUFACTURER STANDARDS ,ASTM A694 F60 ,BW - ANSI B16-25, 8"	2	Nos	1,40,000.00	2,80,000.00
157	**Supply of following Valves as Per attached PTS,GTS,Data Sheet,QAP,PMS & MTO**				
158	1",BALL VALVE - FULL BORE (RF) (ABOVE GROUND),6C1	6	Nos	14,000.00	84,000.00
159	3/4", CHECK VALVE (RF) (AG), 6C1	2	Nos	7,000.00	14,000.00
160	3/4",NEEDLE VALVE, 6C1	5	Nos	4,500.00	22,500.00
161	**Note (Applicable for all items of SOR Item No 126 to 160):** **1. Before procurement of any of the above materials Contractor will take prior approval from GAIL / PMC.** **2. Payment will be made for actual quantity used.**				
162	**Sub-Total Section B**				**29,49,270.00**
163	**SECTION-C [CIVIL / STRUCTURAL & ARCHITECTURAL]**				
164	**CIVIL , STRUCTURAL & ARCHITECTURAL**				
165	**Earthwork excavation in soil**				
166	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	1770	cum	250.00	4,42,500.00

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167	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth beyond 1.5m and upto and inclusive of 3.0m including Removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	50	cum	280.00	14,000.00
168	**Earthwork excavation in soft rock**				
169	Earth work in EXCAVATION below ground level for all kinds of works in SOFT ROCK and HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as irected including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	130	cum	2,500.00	3,25,000.00
170	**Backfilling after execution of work**				
171	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps within a LEAD OF 100M,including re-excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/ mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	580	cum	300.00	1,74,000.00
172	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps beyond a LEAD OF 100M AND UPTO & INCLUSIVE OF 500M including re- excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	250	cum	350.00	87,500.00
173	**Transporting & Disposing the SURPLUS EARTH AND DEBRIS**				
174	Transporting and disposing the SURPLUS EARTH AND DEBRIS including shrubs and vegetations from construction areas to areas ANYWHERE OUTSIDE THE PLANT BOUNDARY, including re-excavating the deposited soil excavated earlier, loading, transportation, unloading, laying at all depths and heights, stacking,levelling and dressing both the area (viz. from where the earth is transported and where it is deposited) to required levels and slopes complete with all lifts as directed. For carting on the basis of truck measurements (volume of truck reduced by 30% for voids). DISPOSAL AREAS OUTSIDE PLANT BOUNDARY TO BE ARRANGED BY THE CONTRACTOR. Royalty as applicable for disposal outside plant limits to be borne by the Contractor	760	cum	400.00	3,04,000.00
175	**EARTH WORK FILLING BY EXCAVATION**				
176	EARTHWORK IN FILLING by excavating the earth from BORROW AREAS arranged by CONTRACTOR for all leads, transporting the earth from borrow area including cleaning & stripping the earth at borrow areas, breaking clods, loading, unloading and laying at all depths and heights in layers of thickness not exceeding 15 cms., watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% of the maximum laboratory dry density, ressing, trimming, levelling the top surface etc. in foundations, plinths, trenches etc. all complete.	4725	cum	400.00	18,90,000.00
177	**PLAIN & REINFORCED CEMENT CONCRETE: (REFER SPECIFICATION NO. (Z/02/0004)**				
178	**PLAIN CEMENT CONCRETE - PCC**				
179	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:4:8 (1 cement : 4 coarse sand (Zone-III) : 8 graded stone aggregate 40 mm nominal size)	105	cum	5,500.00	5,77,500.00
180	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:3:6 (1 cement : 3 coarse sand (Zone-III) : 6 graded stone aggregate 40 mm nominal size)	20	cum	7,000.00	1,40,000.00
181	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:2:4 (1 cement : 2 coarse sand (Zone-III) : 4 graded stone aggregate 20 mm nominal size)	120	cum	7,200.00	)00.00

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182	Providing and laying PLAIN CEMENT CONCRETE for all depths below and upto plinth level in foundations, drains, fillings, non-suspended floors, pavements & ramps or any other works etc. including shuttering, tamping, ramming, vibrating, curing, etc. all as specified in any shape, position, thickness and finishing the top surface rough or smooth as specified and directed all complete for concrete grade M20 with 20mm and down size graded crushed stone aggregates/Gravels. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR	110	cum	7,500.00	8,25,000.00
183	**RCC WORKS**				
184	**SUBSTRUCTURE**				
185	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUBSTRUCTURE INCLUDING CENTERING & SHUTTERING) e.g. foundations, raft, beams, pile caps, Retaining walls, counterforts, buttresses, pedestals, pipe sleepers, columns, suspended floors, staircases, landings, steps, brackets etc., including equipment/ machine foundations & pedestals viz. compressors, generators, etc. (including single pour concreting as specified on the drawing), applying cement wash on concrete surface (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering, etc., wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT)for all depths below and upto plinth level in any shape, position and thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	615	cum	8,000.00	49,20,000.00
186	**SUPER STRUCTURE - EXCLUDING CONTROL ROOM BUILDING, GUARD ROOM & BOUNDARY WALL**				
187	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUPER STRUCTURE INCLUDING CENTERING & SHUTTERING in suspended floors, slabs, beams, columns, walls including counterforts, staircases, landings, steps, facias, fins, mouldings, gutters, shelves, window sills, canopies, lintels, girders, ducts, brackets, chajjas with drip moulds, pedestals, posts, struts, equipment/ machine foundations, ramps etc. (including single pour concreting as specified on the drawing), providing cement wash (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT) FOR ALL HEIGHTS UPTO & INCLUSIVE OF 20 m ABOVE PLINTH LEVEL in any shape, position, thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	70	cum	8,000.00	5,60,000.00
188	**CONTROL ROOM BUILDING (SUPERSTRUCTURE)**				
189	Construction of Control Room Building as per drawings and specification. Building work for all Superstructure works INCLUDING CENTERING & SHUTTERING , Reinforcement , masonry work, partition wall, Plastering & pointing, flooring, Floor finishes, Door & windows, rolling shutter, false ceiling, all finishes, painting, roof treatment complete in all respect etc.)	215	m2	30,000.00	64,50,000.00
190	**GUARD ROOM (SUPERSTRUCTURE)**				
191	Guard Room as per drawings and specification. Building work for all superstructure works including (Reinforcement, masonry work Plastering & pointing, flooring, Floor finishes, Door & windows, painting, roof treatment, all finishes, water supply and sanitary work complete in all respect etc.)	17	m2	24,000.00	4,08,000.00
192	**HYD Bars / MS Bars**				
193	Supplying and placing in position HIGH YIELD STRENGTH DEFORMED STEEL BARS REINFORCEMENT of Grade Fe500D TMT conforming to IS:1786, for RCC work (excluding control room building & Guard room & boundary wall superstructure) including transporting the Steel, straightening, cleaning, decoiling, cutting, bending to required shapes and lengths as per details, binding with 18 SWG black soft annealed binding wire at every intersection, supplying and placing with proper cover blocks, supports, chairs, overlaps, welding, spacers, fanhooks etc. for all heights and depths etc. all complete as directed. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE	70	MT	1,00,000.00	70,00,000.00
194	**STRUCTURAL STEEL WORKS (REFER TE SPECIFICATION)**				

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. AMP Infra Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
195	Supplying, fabricating and erecting of structural steel and applying COATING (Post-erection/ Field) of approved quality and shade as per TE Specification or Job Specifications, wherever applicable) over the coat of shop primer already applied, including storage, surface preparation, degreasing, cleaning, drying, providing necessary arrangement for access, testing etc. including touching up of shop for steel structures (Including Wicket Gate, Main Gate and emergency gate, excluding ladders, spiral stairways & hand rails) at all location & levels, all complete as specified, for UNIT (INLAND) areas considering environment classification as INDUSTRIAL. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE. (Unit rate based on Structural steel weight)	25.5	MT	1,00,000.00	25,50,000.00
196	**MISCELLANEOUS STEEL WORKS (REFER TE - SPECIFICATIONS)**				
197	MS Chequered Plates				
198	Supplying, fabricating and erecting in position at all levels and locations bolted, screwed and/or welded M.S. CHEQUERED PLATES of any thickness in walkways, platforms, stairtreads or any other place as directed, etc. cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing, welding, preparation and submission of fabrication drawings and preparing the surfaces for painting and applying shop primer as per TE Specification after fabrication and return of unused/ scrap/ unserviceable chequered plates to Owner's store and material reconciliation etc. all complete as specified and directed	1.5	MT	1,00,000.00	1,50,000.00
199	Anchor Bolts				
200	Supplying, fabricating, fixing and keeping in position at all levels and locations THREADED ANCHOR BOLTS of all diameters and nomenclature including nuts, washers, anchor plates, pipe sleeves etc. in foundations, columns, pedestals, slabs, beams, walls etc. or any other place as directed including handling & transporting, straightening if required, turning from relevant size M.S. rounds to required diameter, threading, welding, providing necessary templates and auxiliary dummy structures, if any, necessary tying and welding with reinforcement, adjustment of shuttering & reinforcement/any other fixture, greasing exposed metal surfaces, covering bolts and packing the sleeves with jute cloth etc. all complete as specified and directed.(SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.6	MT	1,00,000.00	1,60,000.00
201	MS Metal Inserts				
202	Supplying, transporting, storing, fabricating and fixing in position M.S. METAL INSERT (with lugs) of any shape made out of flats, plates, rolled sections, pipes etc. providing necessary templates, staging, cutting,straightening, if required, bolting, welding as required and embedding in position on both Plain and Reinforced Cement concrete members inclusive of adjusting shuttering & reinforcement/ any other fixture, welding where necessary, tying and holding to correct level, line and position, any auxiliary dummy structures to support the heavy inserts, painting exposed surfaces with a coat of primer as per TE Specification all complete for all depths and heights as specified and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	0.55	MT	1,00,000.00	55,000.00
203	MS Grating				
204	Supplying, fabricating and erecting in position at all levels and locations ELECTROFORGED GALVANISED GRATING (purchased from approved manufacturer by the Contractor) conforming to TE STANDARD (in walkways, platforms, stair treads etc.) including cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing with manufacturer's supplied galvanised clamps, preparation and submission of fabrication drawings, all complete as specified and directed (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.85	MT	1,00,000.00	1,85,000.00
205	Hand Railing 1000mm				
206	Supplying, fabricating and fixing in position at all locations 1000mm high INCLINED HAND RAILING (for staircases) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade M.S. Tubes conforming to IS:1239 including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE SPEC. preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	2,500.00	25,000.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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207	Supplying, fabricating and fixing in position at all locations 1000mm high HORIZONTAL HAND RAILING (for platforms, walkways, etc. or any other location as directed) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade MS Tubes conforming to IS:1239 and 100x5 MS Toe Plate confirming to IS:2062 (Grade A/B), including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE standard drawing & specification, preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	2,500.00	25,000.00
208	**CHAIN LINK FENCING**				
209	Supplying, fabricating and fixing G.I. chain link fencing with 3.5mm dia. wire, 50x50mm diamond mesh chain link fence fabric conforming to IS:2721 fixed to steel/RCC posts/struts above ground level, including supply of chain link fencing fabric in 1.9 metre wide rolls, stretcher bars, staples, etc. required for fixing the fencing, fixing of chain link fencing between straining posts, fixing of bottom of fencing in cement concrete 1:2:4 blocks and painting with synthetic enamel etc. , including supply and fixing line wires, complete as per drawings, specifications and directions of Engineer -in-Charge (All materials shall be supplied by Contractor). (The measurement of chain link fencing shall be on linear basis for 1.9 m wide fencing fabric)	10	M	4,500.00	45,000.00
210	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of the Engineer-in-Charge. Made of G.I. wire of dia. 4 mm, PVC coated to achieve outer dia not less than 5 mm in required colour and shade.	600	M2	1,200.00	7,20,000.00
211	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Star' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	200	M	1,200.00	2,40,000.00
212	**ROADS & FLEXIBLE PAVEMENT (UPTO WBM LAYER)**				
213	Preparation and consolidation of sub-grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth outside the property boundary in the un-disputed areas as directed by Engineer-In-Charge.	1500	M2	800.00	12,00,000.00
214	Supplying and laying of stone aggregate of 63mm down to 45mm size for WBM layer Base Course, tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 75mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding material of plasticity index upto 6%, including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts etc. complete as per drawings, specifications and directions of Engineer-in-Charge	4500	M2	800.00	36,00,000.00
215	**CONCRETE PAVEMENTS**				
216	Construction of dry lean cement concrete **(DLC) sub base** over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in- charge.	150	cum	1,200.00	1,80,000.00
217	Providing and laying Reinforced Cement Concrete with 20mm and down size graded crushed stone aggregates in flooring, pavements etc. including leaving pockets, if necessary, making recess/drains, laying in alternate panels, etc. for all depths including shuttering, tamping, curing, providing dowel bars with sleeves/tie bars etc where ever required at site. as specified in any shape, thickness, position and finishing the top surface smooth etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For RCC of M-30 grade concrete (all materials including cement but excluding cost of providing & fixing reinforcement and joint sealing shall be supplied by the contractor).	375	cum	5,500.00	20,62,500.00

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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218	Providing 20mm wide Expansion Joints in pavement slabs as per general technical specification including cleaning the joints of all loose material, filling with 20mm thick impregnated fibre boards for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved Joint Sealing Compound as per IS:1834 Type-B etc. all complete as per drawings, specifications and directions of Engineer-in-Charge	720	M	4,500.00	32,40,000.00
219	Sealing joint around pedestal and column etc. 20mm wide x 150 mm deep including filling with 20mm thick impregnated fire board for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved joint sealing compound as per IS:1834 Type-B.	300	M	4,000.00	12,00,000.00
220	**RCC PIPE CULVERTS & ELECTRICAL ROAD CROSSINGS ETC. (as per drawing & TE specification)**				
221	Supplying and laying in position RCC pipes with collars conforming to IS:458 for pipe culverts, cable crossings etc. including cutting the pipe if necessary, lowering, laying in position to proper levels, slopes etc. caulking the joints with spun yarn soaked in neat cement slurry and finishing with cement mortar 1:2 (1 cement : 2 sand) curing etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For following Class and Internal PIPE DIA (MM). (Dia (internal) - 500 mm, Pipe Class - NP3)	20	M	1,200.00	24,000.00
222	**U/G AND A/G G.I. PIPELINE SYSTEM - WATER SERVICES tender specification**				
223	Supplying and laying mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ ASTM A105 (Galvanized) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, earthwork in excavation for trenches, valve pits, etc. in all types of soil excluding soft and hard rock including laying of pipes in trenches, joining the pipes and fittings with threaded connections, hydrostatic testing of the piping, backfilling the trenches with selected/approved earth fill material, cutting of roads wherever required, making good the road surface after laying, disposal of surplus earth within a lead of 500 m, etc. including supply of necessary fittings etc. complete as per specifications, drawings and directions of Engineer-in-Charge. For following Nom.Size in mm. (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	800.00	8,000.00
224	Supplying and laying above ground mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ASTM A 105 (GALVANISED) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, including laying of pipes on sleeper, walls, including erecting piping on columns, etc. for pump station, overhead tanks, etc. including joining the pipes and fittings with threaded connections, hydrostatic testing of the piping including supply of necessary fittings etc & pipe supports. complete as per specifications, drawings and instructions of Cement Supplied by contractor (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	800.00	8,000.00
225	**MISC. CIVIL AND STRUCTURAL WORKS FOR U/G PIPING AND OTHER CIVIL WORKS**				
226	Providing and laying brick masonry with locally available bricks of specified class (Brick of class lower than specified shall not be accepted) in cement mortar 1:4 (1 cement : 4 Coarse sand) in one or more brick thickness and in any shape in foundation and plinth for valve pits, drains, circular/square manholes, wing walls, etc. including providing recesses, openings, etc. including curing, finishing the joints flush below ground level and raking out joints in plinth with all labour and material, etc. complete as per drawings, specifications and direction of Engineering-Charge. For following Brick Class.	280	cum	7,500.00	21,00,000.00
227	Providing 13mm thick average cement plaster in cement mortar 1:3 (1 cement: 3 sand) on brick walls/stone masonry/pitching or on concrete surfaces for manholes, valves pits, culverts, wing walls, etc. including cleaning and preparation of the surface, scaffolding, curing etc. for all depths and heights complete as per drawings specifications and direction of Engineer-in-Charge. All materials including cement supplied by the Contractor.	750	M2	7,500.00	56,25,000.00
228	**UNDERGROUND SEWER SYSTEM - RCC PIPES**				
229	Supplying and laying underground R.C.C. pipes sewers with socket and spigot ends conforming to IS:458 of approved make, to proper grade and alignment, including earthwork in excavation in all types of soil except soft and hard rock for pipe trenches, etc. including dewatering, shoring and shuttering if necessary, dressing of sides, leveling, grading and ramming of bottoms, cutting the R.C.C. pipes to required lengths, lowering the pipes, jointing, including connecting the pipes to manholes and grouting the pipe body with manhole wall using cement mortar 1:2 (1 cement : 2 sand), testing, draining of water and cleaning of pipe after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness , watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, including cutting of roads wherever required and making good the same, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit etc. complete for all depths as per drawings, specifications and instructions of Engineer-in-Charge.(All material shall be supplied by contractor) For following Pipe size (mm) and Class(The following pipe sizes are all internal diameter of the pipes)				
230	(Dia (Internal) - 100 mm, Piping Material Class - NP2)	15	M	1,500.00	22,500.00
231	(Dia (Internal) - 150 mm, Piping Material Class - NP1)	15	M	2,000.00	)00.00

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232	(Dia (Internal) - 450 mm, Piping Material Class - NP2)	70	M	2,500.00	1,75,000.00
233	**UNDERGROUND SEWER SYSTEM-HDPE PIPES**				
234	UNDERGROUND SEWER SYSTEM-HDPE PIPES :- Supplying and laying HDPE pipes conforming to IS:4984 of approved make to proper grade and alignment, including earthwork in excavation for trenches etc. in all types of soil except soft and hard rock including dewatering till completion of subsequent works, shoring and strutting, if necessary, dressing the sides, leveling, grading and ramming the bottom, jointing the pipes using hot plates as per manufacturer's recommendation, lowering, providing and laying 1:5:10 (1 cement : 5 sand : 10 aggregate) plain cement concrete of minimum 100mm thickness on bottom and side of pipe as directed, connecting the pipes to manholes and grouting the pipes to manhole/valve chamber walls, including supplying and fixing the specials and fittings, such as bends, reducers, tees, elbows, caps etc. conforming to IS:8008 or fabricated from pipes as per specification, supplying and fixing of flanges, fixing of online valves, including fixing of bolts, nuts and gaskets etc. as per specifications, testing, draining of water and cleaning of pipes after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness, watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit, cutting of road wherever required, making good the same etc. complete for all depths as per drawings, specification and instruction of Engineer-in- Charge. For the following nominal diameter (mm) Pressure Rating(Kg/Cm2). (Dia (Internal) - 80 mm, Pressure Rating - 2.5 Kg/sqcm)	50	M	2,000.00	1,00,000.00
235	**PLUMBING AND BUILDING DRAINAGE**				
236	Supplying and fixing approved quality Cast Iron soil/waste pipe conforming to IS:1729 below ground with necessary specials, bends such as Y-junction, T- junction (both single and double) including plugs, shoes, cowls, jointing with lead caulked joints and testing, cutting in floors, earth work in excavation, encasing the pipe in 50mm THK, PCC M20, backfilling and removal of surplus earth upto a lead of 50M etc. complete as per drawings, specifications and directions of Engineer-in-Complete				
237	100mm dia (All materials including cement supplied by contractor)	10	M	2,500.00	25,000.00
238	80mm dia (All materials including cement supplied by contractor)	10	M	2,000.00	20,000.00
239	**Supplying and fixing gun metal globe valve conforming to IS:778, complete as per specifications and directions of Engineer-in-Charge.**				
240	Dia - 50 mm	2	Nos	3,500.00	7,000.00
241	**Constructing of brick masonry valve chamber in 1:4 Cement mortar(1 cement: 4 sand) with CI frame & cover fixed on M-20 grade cement concrete , necessary excavation, M-20 grade foundation concrete, 13mm thick 1:3 cement plaster on inside & all exposed surfaces, backfilling, removal of surplus earth for all leads within the complex limit etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge. For following Valve size and Brick Class (All materials including Cement supplied by contractor)**				
242	Dia - 50 mm, Brick Class - 5)	2	EACH	7,500.00	15,000.00
243	Providing and fixing approved stone ware 100mmx100mm dia. gully trap as per tender specification, including grating with CI frame and cover 300mmx300mm including brick masonry (brick class shall be as mentioned below) chamber in 1:4 cement mortar(1 cement: 4 sand) on M-20 grade cement concrete foundation, plastered inside and outside surfaces with 1:3 cement mortar (1 cement: 3 sand) with 13mm average thickness including providing and fixing light duty CI frame and cover, painting CI frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat, earth work in excavation, backfilling, removal of surplus earth, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry etc. all complete as per drawings, specifications and directions of Engineer-in-Charge				
244	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	8,500.00	17,000.00
245	Construction as per(Design basis & general technical specification) of brick masonry (brick class shall be as mentioned below) inspection chambers/manholes of 750mmx750mm internal size 1000mm deep(Max.) in cement mortar 1:4 (1 cement: 4 sand) with CI frame and cover 500mm clear dia, (circular Medium duty of grade MD-10) conforming to IS:1726 fixed on RCC slab of M-30				
246	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	7,500.00	15,000.00
247	Construction, supplying, installation, testing and commissioning of septic tank as per standards and IS:2470 Part-I , with all necessary accessories like inlet, outlet vent pipes, manhole covers, rungs etc. including earthwork in excavation in all type of soil except soft and hard rock, backfilling and disposal of surplus earth for all leads etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

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248	All material including cement supplied by contractor for (Users - 10 NOS)	1	Nos	1,50,000.00	1,50,000.00
249	**MISCELLANEOUS ITEMS**				
250	Supplying and fixing in position entrance gate in complex boundary wall fencing manufactured out of steel frame work and square MS bars of 20 mm at 100 c/c and horizontal name plate band at lock rail level suitably hinged with box type steel post embedded in cement concrete i.e. providing the tension bar for smooth operation and locking arrangement etc. complete as per tender specification, including painting with two coats of anti-corrosive paint and two coats of approved aluminium/synthetic enamel paint etc. complete as per drawings, specifications and directions of Engineer-in-Charge.				
251	4.0M clear opening width of gate in two panels.	3	Nos	70,000.00	2,10,000.00
252	Supplying & Laying interlocking Paver Blocks for roads, footpaths and any other place etc. including providing 50 mm thick sand filling below Paver Blocks including compaction of sand layer, filling the joints by dry sand, providing precast kerb stone of PCC M-20 at edges, including preparation of compacted sub-grade etc. all complete as per drawing, standard and directions of Engineer-in-Charge. (All material including cement supplied by contractor, paver blocks shall confirm to IS: 15658. cloour and shape of paver block shall be as per owner requirements for following thickness of paver blocks				
253	**(Thickness - 60 mm)**	285	M3	1,200.00	3,42,000.00
254	Supply and installation on terrace, high density polyethylene drinking water circular tank as per IS:12701 and ISI marked including supply and installation of all fittings, cover with suitable locking arrangement, float valve, making necessary holes for inlet, outlet and overflow connection and vent pipe etc. and the base supports for tank including supply of all necessary material all complete as per specifications and directions of Engineer-in-charge. (Sintex or equivalent having valid ISI license) for following capacities.				
255	**capacity - 500 litre**	2	Nos	5,000.00	10,000.00
256	Supplying, installation, testing and commissioning of Upflow Anaerobic Filter with bleaching tank as per TE Std. Drawing with all necessary accessories like, Upstream inlet CI piping from septic tank, Downstream outlet RCC NP2 class piping up to surface storm water drains, CI pipes for filter chamber, CI valve, RCC pre-cast pit covers, steps, perforated pre-cast slabs etc., inlet chamber, Filter chamber, deluding chamber including earthwork in excavation in all type of soil including soft rock, backfilling with murrum or approved soil arranged by the contractor, disposal of surplus earth etc. complete as per drawings, specification and direction of Engineering-Charge (All materials including cement shall be supplied by the contractor, Brick Class lower than 5.0 shall not be used).	1	Nos	1,50,000.00	1,50,000.00
257	**DEMOLISHING AND DISMANTLING**				
258	**Brickwork**				
259	**Demolishing BRICKWORK** (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	3,500.00	35,000.00
260	**Demolishing BRICKWORK** (taking all necessary safety precautions) for all heights **above plinth level** including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	3,500.00	35,000.00
261	**RCC**				
262	**Demolishing RCC WORK** (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	4,500.00	45,000.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. AMP Infra Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
263	**Demolishing RCC WORK** (taking all necessary safety precautions) for all heights **above plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	4,500.00	45,000.00
264	**PCC**				
265	**Demolishing PLAIN CEMENT CONCRETE** work (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc. disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation and backfilling shall be paid separately under relevant items)	10	cum	3,500.00	35,000.00
266	**MISCELLANEOUS ITEMS (REFER TE SPECIFICATION)**				
267	**Sand Filling**				
268	Supplying and filling approved SAND of specified quality under floors, in foundations, plinths, tank foundations etc. for all depths and heights including cost of sand,royalties,transportation to site for all leads and lifts, including loading, unloading, spreading in layers of loose thickness not exceeding 150 mm,watering,ramming,compacting with mechanical compactors and/or other equipment to the specified levels to achieve 85% relative density as per IS:2720 Part XIV,including preparation of subgrade to the required slope, providing testing apparatus and testing the degree of consolidation all complete as per drawings, specifications and direction of Engineer-in-charge. The rates shall be inclusive of the cost of all labour,material,equipments etc. all complete .	100	cum	400.00	40,000.00
269	**SAND GRAVEL MIX**				
270	Supplying and filling sand gravel mix (1:1) with approved aggregate below road, RCC pavement, manholes, pits, foundations, bedding of UG piping etc. in layers of 150 mm loose thickness (maximum) including watering, ramming, rolling, compacting to achieve 85% relative density as per IS 2720 Part-XIV, quarrying, royalties, transportation, handling, etc. all complete as per drawings, specifications and directions of Engineer-in- Charge. (The rate shall be inclusive of the cost of all labour, material, equipment etc. all complete)	105	cum	1,500.00	1,57,500.00
271	**GROUTING WITH NON-SHRINKABLE COMPOUND**				
272	Providing and laying manually or by pumping at all positions a ready mix non-shrink cementitious grout of compressive strength specified below for specified works e.g. pipe support, base grouting of rotating equipment and other installation complete in all respects as per scope of work, detailed construction drawings , technical specifications and directions of the Engineer-In-Charge.				
273	Having compressive strength of 30 N/mm2 , Per bag of 25 Kg	100	Bags	1,500.00	1,50,000.00
274	Having compressive strength 45 N/mm2 , Per bag of 25 Kg	20	Bags	2,500.00	50,000.00
275	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains, SS trench of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.	7.5	m2	6,000.00	45,000.00
276	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, leve and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	13.5	cum	6,000.00	81,000.00
277	Providing and fixing factory made precast RCC **perforated drain covers**, having concrete of strength not less than M-25, of size 1000x450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos. cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of the Engineer-In-Charge.	515	EACH	12,000.00	61,80,000.00
278	**Borewell and recharge well**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. AMP Infra Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
279	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job all complete as per drawing, direction of Engineer -in-charge, in all types of soil :	130	M	1,800.00	2,34,000.00
280	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge.	130	M	1,000.00	1,30,000.00
281	Providing and fixing Bail plug/ Bottom plug of required diameter to the bottom of pipe assembly of tubewell as per IS:2800 (Part-I). :150mm dia	3	EACH	500.00	1,500.00
282	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	1,100.00	5,500.00
283	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	1,500.00	7,500.00
284	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	2,500.00	12,500.00
285	Gravel packing in tubewell construction in accordance with IS:4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of the Engineer-In-Charge.	3	cum	1,500.00	4,500.00
286	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS:4270, of reputed & approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size dia having minimum wall thickness 5.00 mm	5	M	2,500.00	12,500.00
287	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	60	M	1,000.00	60,000.00
288	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/ 3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS:8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	25	M	2,500.00	62,500.00
289	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of 150 mm diameter	1	Nos	500.00	500.00
290	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS:2800 (Part-I), including necessary bolts & nuts of required size complete 150 mm diameter.	1	Nos	2,000.00	2,000.00
291	Supply, Installation and commissioning of 1.5HP Borwell Submersible Pump	1	EACH	2,50,000.00	2,50,000.00
292	Supply and Installation of 3Cx10Sqmm Copper Flat Cable	200	M	700.00	1,40,000.00
293	**LANDSCAPING**				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
294	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment).	335	cum	5,000.00	16,75,000.00
295	Fine dressing of the ground.	1105	M2	1,200.00	13,26,000.00
296	Providing & laying Selection no. 1 grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden and than rolling the surface with light roller make the surface smoothen and light watering the same maintenance for 30 days or more till the grass establish properly,as per direction of officer in charge	1105	M2	1,200.00	13,26,000.00
297	Conducting topographical ground/land survey in the specified area as shown in the tender drawings by conventional/GPS or any other standard method, covering details of physical features like Rivers, Nallahs, Lakes, Ponds, wells, pits, Forest, Trees, Roads, culverts, transmission lines, telegraph/ telephone and electric poles, underground or any other services, cross drainage works including cross sectional details of nallah etc. including establishing high flood level with source of information, identification of any monument, historical structure, wild life sanctuary in the vicinity, storm water disposal point with levels, cross-section details of nallah, recording spot levels, top level of nearest state highway or National Highway, including providing in tabulation girth wise no. of trees etc as specified, plotting and developing topographical contour maps, showing true north including establishing survey reference stations, key plan etc. including all equipment's, instruments, personnel's, clearing of bushes as per requirement for intervisibility to carry out survey work etc. , complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of drawings/map and supply of electronic files. Note: Survey work shall be carried out by survey agency approved by Contractor and sample spot witness of levels cordinates by PMC, and shall be submitted to PMC/Owner for review.Survey drawing will be provided in A0 size with clear visibility of all the spots/levels/ contoure and Bench marks. Permanaet bench mark will be stabished at site in a 450x450 mm size 600mm high bick masonry piller.	4220	M2	500.00	21,10,000.00
298	**GEO TECHNICAL INVESTIGATION (Z/02/0022)**				
299	Conducting soil investigation with boring including all field tests and laboratory tests, mobilization and demobilization of equipments & personnel etc. for soil investigation for each borehole location. complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of Reports & recommendations and supply of electronic files.	5	Nos	40,000.00	2,00,000.00
300	**ANTI-TERMITE TREATMENT**				
301	Supplying chemical emulsion in sealed containers including delivery as specified in the Technical Specifications.				
302	Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	200	LITRE	350.00	70,000.00
303	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
304	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc. as per Techinal specifications and direction of engineering in charge: With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	80	METRE	250.00	20,000.00
305	Treatment of soil under floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the floor:				
306	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	250	SQM	250.00	62,500.00
307	Supply and installation 60mm dia GI pipe for column support of gate	15	M	800.00	12,000.00
308	Supply and installation 100mm dia MS pipe	15	M	800.00	12,000.00
309	Supply and installation 50mm dia MS pipe	15	M	800.00	12,000.00
310	Supply and installation of U-PVC pipes (working pressure 4 kg / cm²) Single socketed pipe 75 mm dia for weep holes	200	M	1,200.00	2,40,000.00
311	**Sub-Total Section C**				**500.00**

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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312	**SECTION-D [CATHODIC PROTECTION WORKS]**				
313	**CATHODIC PROTECTION SYSTEM**				
314	**Cathodic Protection system**				
315	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning & Monitoring of the temporary cathodic protection [TCP] system using galvanic anodes to protect the external surface of the pipeline against soil-side corrosion for minimum 2 year or till commissioning of permanent CP system whichever is later . All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard drawings and vendor list as attached with this tender and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	12,00,000.00	12,00,000.00
316	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning of permanent cathodic protection system for 40 years. The scope of work also includes post commssoning surveys and repair of coating/ rectification of cathodic protection system based on the post commissioning surveys. In additon to the same, AC Interference study on the pipelines to be performed and mitigation measures takes to the satisfaction of Owner/ CONSULTANT. All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard and vendor list attached and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	25,00,000.00	25,00,000.00
317	**Sub-Total Section D**				37,00,000.00
318	**SECTION-E [ELECTRICAL WORKS]**				
319	**ELECTRICAL**				
320	**SWITCH BOARDS / UPS SYSTEM/ PANEL**				
321	Supply , Installation, testing and commissioning of LT Switch-boards, AC UPS system with UPS Distribution board & Ni-Cd Battery banks , distribution boards, cubicles with electrical equipment, misc. electrical panels etc., including transportation from store/yard to site at the place of installation, unpacking, assembly, including mounting and wiring of loose parts supplied by equipment vendor, interconnection of shipping sections and requisite inter-panel wiring between shipping sections, including supply of all wiring materials, installation on foundations or fixing to wall or steel structures, aligning, levelling, grouting, including all labour and materials, as per approved drawings, specifications of this tender and directions of Engineer-in-Charge.				
322	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted MEDB	1	Nos	4,50,000.00	4,50,000.00
323	Supply , erection , termination , earthing and commissioning of wall mounted OLDB as per single line diagram of DT stations	1	Nos	2,50,000.00	2,50,000.00
324	Supply , erection , termination , earthing and commissioning of wall mounted ILDB as per Single line diagram of DT stations	1	Nos	2,50,000.00	2,50,000.00
325	Supply , erection , termination, earthing and commissioning of wall mounted SSDB as per Single line diagram of DT stations	1	Nos	2,50,000.00	2,50,000.00
326	Supply , erection , termination , earthing and commissioning of wall mounted AC DB as per Single line diagram of DT stations	1	Nos	2,50,000.00	2,50,000.00

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327	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 6 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of DT stations	1	SET	4,50,000.00	4,50,000.00
328	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for DT stations.	1	SET	5,00,000.00	5,00,000.00
329	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 1 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of RT stations	1	SET	2,50,000.00	2,50,000.00
330	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for RT stations.	1	SET	3,00,000.00	3,00,000.00
331	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted Emergency DB	1	Nos	2,00,000.00	2,00,000.00
332	Supply , erection , termination , earthing and commissioning of 32A, 4P, 25kA Auto Change-Over switch as per Single line diagram of DT station-JHARIA	1	Nos	1,50,000.00	1,50,000.00
333	**POWER AND CONTROL CABLE**				
334	Supply , laying , termination , erection and testing of 1.1 KV Power and control FRLS PVC Outersheath, XLPE insulated, armored Cables . Outdoor cable will be laid in buried cable trench and in Indoor cable will be laid in Cable trench by provision of Cable tray and supports inside the trench as per PTS - Electrical package P.017110 G 11077 E002				
335	3.5C x 95 sqmm AL FRLS XLPE	300	M	1,500.00	4,50,000.00
336	3.5C x 70 sqmm AL FRLS XLPE	300	M	1,200.00	3,60,000.00
337	3.5C x 50 sqmm AL FRLS XLPE	50	M	540.00	27,000.00
338	3.5C x 25 sqmm AL FRLS XLPE	100	M	350.00	35,000.00
339	4C x 16 sqmm CU FRLS XLPE	100	M	1,000.00	1,00,000.00
340	3C x 2.5 sqmm CU FRLS XLPE	170	M	600.00	1,02,000.00
341	3C x 6 sqmm CU FRLS XLPE	250	M	650.00	1,62,500.00
342	4C x 6 sqmm CU FRLS XLPE	350	M	500.00	1,75,000.00
343	2C x 6 sq.mm CU FRLS XLPE	100	M	400.00	40,000.00
344	2.5 sqmm Cu. Wire	1800	M	210.00	3,78,000.00
345	6 sqmm Cu. Wire	600	M	250.00	1,50,000.00
346	**Earthing & Lightning**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**			**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**
M/s. AMP Infra Pvt. Ltd.					
S. NO.	**WORK DESCRIPTION AND SUPPLY**	**UNIT**	**QTY**	**PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR**	
347	Supply , Installation , testing and comissioning of GI Earth electrodes & Cu plate type earth pit complete with earth pit as per IS 3043, PTS-Electrical package and all necessary material including exacavation of earth pit , filling with charcol and salt , back filling, brick work , connections including all labour and materials as approved drawing and specification of this tender and direction of Engineer-In charge.				
348	GI Earth Electrodes				
349	65mm dia x 3000 mm L GI pipe electrode type Earth pit	17	Nos	20,000.00	3,40,000.00
350	**Cu plate Earth Electrode**				
351	600x600x3mm Cu plate type Earth pit	8	Nos	30,000.00	2,40,000.00
352	**Earth strip and wire**				
353	50x 6 mm GI Flat strip	850	M	280.00	2,38,000.00
354	25 x 6 mm Cu Flat strip	50	M	280.00	14,000.00
355	2.5 Sqmm Cu wire	250	M	200.00	50,000.00
356	25 x 6 mm GI Flat strip	200	M	200.00	40,000.00
357	10 Sq.mm earthing cable	250	M	220.00	55,000.00
358	GI Earth Bus 50x 6 Sq.mm with all installation assesories	3	Nos	4,000.00	12,000.00
359	Cu. Earth Bus 50x 6 Sq.mm with all installation assesories (in control room)	4	Nos	4,000.00	16,000.00
360	25x3 mm GI Flat for Lightning as well as down conductors for DT station as per overall earthing layout and GGNG-E-20713-3007	80	M	2,000.00	1,60,000.00
361	Other lightning assesories like 20mm dia copper rod, hollosphere ,200x200x6mm ms plate ,anchor/fastner ,test links for DT station as per overall earthing layout and GGNG-E-20713-3007	1	LOT	1,50,000.00	1,50,000.00
362	**OUTDOOR Lighting**				
363	Supply , erection , Testing & commissioning of Outdoor area lighting system including with supply of flameproof / weather proof light fixture , pole , junction box and earthing including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender & Overall outdoor lighting layout of DT & RT station and directions of Engineer- In charge.				
364	100W FLP LED Fixture & FLP Junction box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	4	Nos	1,50,000.00	6,00,000.00
365	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	2	Nos	1,50,000.00	3,00,000.00
366	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in RT Stations.	7	Nos	1,50,000.00	10,50,000.00
367	1x160W FLOOD LED Fixture with weather proof junction box & 9 mtr high pole with all assesories for open area	6	Nos	20,000.00	)00.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. AMP Infra Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
368	1x70 W Solar type Street LED Fixture with weather proof junction box, VRLA Battery (72 hrs backup time) & 9 mtr high pole for street lighting	4	Nos	1,50,000.00	6,00,000.00
369	1x27 W Post Top Lantran LED Fixture for Gate with weather proof junction box for Gate lamp	2	Nos	35,000.00	70,000.00
370	1x36 W LED industrial fixture suitable to building parapet /wall with all assesories like weather proof junction box/clamp/reducer/	2	Nos	35,000.00	70,000.00
371	**INDOOR Lighting**				
372	Supply, erection, Testing & commissioning of Indoor building area lighting system including with supply of light fixture, point wiring including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender and directions of Engineer- In charge.				
373	2x20 W LED recessed decorative fixture for control room	5	Nos	8,000.00	40,000.00
374	2x20W LED Industrial Fixture for Electrical room	2	Nos	8,000.00	16,000.00
375	1x40W LED Flameproof Fixture for Battery room	1	Nos	8,000.00	8,000.00
376	2x18W LED Industrial Fixture for Varanda/Toilet/ water cooler area/ Guard room	6	Nos	8,000.00	48,000.00
377	1x36W LED Industrial Fixture	4	Nos	8,000.00	32,000.00
378	2x20 W LED recessed decorative fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) control room.	2	Nos	8000	16,000.00
379	2x20W LED Industrial Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Electrical room	2	Nos	8,000.00	16,000.00
380	1x40W LED Flameproof Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Battery room	1	Nos	8,000.00	8,000.00
381	**Switch socket**				
382	Supply and Installation of single/ three phase Switch socket as per Indoor Illumination layout for DT & RT and PTS-Electrical Package and directions of Engineer-In Charge				
383	5/15A surface type switch socket (1 Ph)	7	Nos	2,500.00	17,500.00
384	5A flush type switch socket (1 Ph)	4	Nos	1,500.00	6,000.00
385	16A Switch socket (I Ph)	3	Nos	2,500.00	7,500.00
386	20A Switch socket for AC (1 Ph)	4	Nos	2,500.00	10,000.00
387	Flame proof Junction box for Exhaust fan in Battery room	2	Nos	8,000.00	16,000.00
388	32A Switch socket for welding receptacles (3 Ph)	1	Nos	8,000.00	)00.00

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389	Modular switch board	12	Nos	1,500.00	18,000.00
390	**FANS and Exhaust FAN**				
391	Supply ,Installation and testing of Ceiling Fan and Exhaust fan with louvers including all labours and materials as per Indoor Illumination layout for DT and PTS-Electrical Package and directions of Engineer-In Charge				
392	Ceiling Fan 230V AC 1200 mm sweep	3	Nos	3,500.00	10,500.00
393	450 mm FLP Exhaust Fan for Battery room	2	Nos	6,500.00	13,000.00
394	200 mm Exhaust Fan for Toilet	1	Nos	6,000.00	6,000.00
395	300 mm Exhaust Fan for Electrical room/ CO2 room	3	Nos	6,000.00	18,000.00
396	**Air conditioning unit**				
397	Supply ,Installation and testing of Five star 1.5 Ton Split AC with outdoor compressor unit including all labours and materials as per Typical Indoor Illumination layout for DT and directions of Engineer-In Charge				
398	Split Air condition Five star 1.5 Ton	4	Nos	70,000.00	2,80,000.00
399	**Hardware and other Accessories**				
400	Supply and Installation of Hardware and other accessories including all labours and materials as per Tender specification PTS-Electrical Package P.017110 G 11077 E002 and directions of Engineer-In Charge				
401	Rubber mat	15	M	2,500.00	37,500.00
402	Rubber hand gloves	1	PAIR	2,500.00	2,500.00
403	Warning Marker	1	Nos	3,500.00	3,500.00
404	PVC Conduit with bend ,tee and other required assesories	1	LOT	3,500.00	3,500.00
405	CAUTION Board & Sock treatment chart	1	Nos	2,500.00	2,500.00
406	Cable route marker as per Standard drawing TE-IN-STD-G-0327	1	LS	10,000.00	10,000.00
407	Fire extingusher and SAND Bucket with Stand	1	SET	10,000.00	10,000.00
408	Ladder type Cable tray - hot dip Galvanized Prefabricated 450 mm wide	55	MTR.	1,200.00	66,000.00
409	Perforated type Cable tray hot dip Galvanized Prefabricated 450 mm wide	35	MTR.	1,600.00	56,000.00

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410	Cable Glands				
411	Cable Glands : Flame proof IIA/IIB double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
412	Cables with upto OD 20 mm & above OD 20 mm as per Single line diagram of DT & RT station	1	LOT	15,000.00	15,000.00
413	Cable Glands : Weather proof double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
414	Cables with upto OD 20 mm to 40 mm as per Single line diagram of DT & RT station	1	LOT	15,000.00	15,000.00
415	**Sub-Total Section E**				**1,02,20,500.00**
416	**SECTION-F [INSTRUMENTATION WORKS]**				
417	**INSTRUMENTATION**				
418	**SUPPLY**				
419	Supply of Pressure Transmitter along with 2 valve manifolds with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	35,000.00	1,75,000.00
420	Supply of Pressure gauge including high range along with 2 valve manifolds with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	18	Nos	25,000.00	4,50,000.00
421	Supply of Pressure gauge including Low Range along with 2 valve manifolds, gauge saver with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	3	Nos	25,000.00	75,000.00
422	Supply of temperature element (RTD) along with flanged thermowell mounted for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	20,000.00	1,00,000.00
423	Supply of Temperature Transmitter with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	7	Nos	35,000.00	2,45,000.00
424	Supply of skin type temperature element (RTD) for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I003), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	2	Nos	35,000.00	70,000.00

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425	Supply of Local control panel with all accessories as per Data sheet (P.017110 G 11087 I011), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, SAT of local control panel,supports/ frame fabrication, earthing and screwing plug for unused entries, painting and integration with RTU. Termination of all Other panel SCADA hard wired signal including RS-485 signals through LCP for RTU/SCADA by Bidder. 1. Digital Barriers 2. Analog Barries 3. Relays 4. three poisition selector switch 5. LED indication lamps 6. Push buttons 7. terminal blocks 8. internal wiring 9. MCBs 10. Door switches 11. cooling Fan 12. LED lights	2	Nos	15,00,000.00	30,00,000.00
426	Supply of Ex-proof junction box with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, iincluding Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.	4	Nos	25,000.00	1,00,000.00
427	Supply of Corrosion Monitoring system with corrosion coupon, Corrosion probe, transmitter and digital indicator (mounted in LCP) as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
428	Corrosion coupon along with accessories.	2	Nos	18,000.00	36,000.00
429	Corrosion probe along with transmitter, digital indicator, barriers and accessories.	2	Nos	35,000.00	70,000.00
430	Supply of Conventional Type Microprocessor based fire detection system along with smoke detector, heat detector, cabinet, manual call point, Independent 24 Hrs battery backup with 15 min in alarm state, repeater panel and Electrical Operated Siren, exit signs and cables fromsensor ,MCP, siren, hooter to controller as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
431	Controller along with cabinet along with cabling	1	Nos	3,50,000.00	3,50,000.00
432	Multisensor (smoke & heat)	10	Nos	25,000.00	2,50,000.00
433	WP IP 65 Manual call points	6	Nos	10,000.00	60,000.00
434	Ex Proof and WP IP 65 Manual call point	1	Nos	25,000.00	25,000.00
435	WP Hooter & Flasher	1	Nos	25,000.00	25,000.00
436	Repeater panel	1	Nos	1,50,000.00	1,50,000.00
437	Exist sign	6	Nos	8,000.00	48,000.00
438	Electrical siren Exd	1	Nos	35,000.00	)00.00

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439	24 Hrs battery backup	1	Nos	35,000.00	35,000.00
440	Supply of Conventional type gas detection system along with controller, ex proof point gas detectors, beacon hooter, flasher, , cabinet, portable gas detector, calibration kit, alignment kit as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
441	Controller with cabinet	1	Nos	15,00,000.00	15,00,000.00
442	Point gas detectors	12	Nos	18,000.00	2,16,000.00
443	Panel Mounted hooter	2	Nos	25,000.00	50,000.00
444	Dual tone Hooter & Beacon Ex"d" with reset push button	2	Nos	25,000.00	50,000.00
445	Portable gas detecotrs	1	Nos	1,20,000.00	1,20,000.00
446	Calibration kit	1	Nos	75,000.00	75,000.00
447	Ex d Junction Box	2	Nos	22,000.00	44,000.00
448	Supply of Universal type Hand Held Configurators for transmitters with carrying case, rechargeable batteries (one working and one standby), and battery charger as per Data sheet,PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work	1	Nos	6,50,000.00	6,50,000.00
449	Supply of Instrumentation signal cable, control cable, communication cable/LAN cable, Power cables along with all sizes cable glands (WP & Exd), PVC hood, lug, ferrule, etc including Cable laying (buried as well as tray) along with termination, glanding, meggering and loop checking including supply of ferrule, lugs, cable tie, cable clamp, cable marker etc. as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.				
450	1Px 1.5mm2	500	MTRS.	300.00	1,50,000.00
451	12Px 0.5mm2	900	MTRS.	300.00	2,70,000.00
452	1Qx1.5mm2	30	MTRS.	300.00	9,000.00
453	12Tx1.5mm2	200	MTRS.	1,200.00	2,40,000.00
454	1Tx1.5mm2	180	MTRS.	300.00	54,000.00
455	6Px0.5mm2	200	MTRS.	350.00	70,000.00
456	2Px1.5mm2	200	MTRS.	3,500.00	7,00,000.00
457	Cat 5 (LAN)	160	MTRS.	500.00	80,000.00
458	3C x 2.5mm2	240	MTRS.	750.00	1,80,000.00

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459	Supply & laying of Instruments cable tray with tray cover (Branch Cable tray (50mm x 50mm), Main cable tray 900 mm, cable tray 300mm, cable tray 150 mm.) as per requirement, instruments/ PGD, CCTV/ mounting poles, instrument protection sun sheds, angles, channels, MS plates & all the erection materials and as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including installation of support, cable clamping, installation of tray cover and support painting.	1	LS	2,50,000.00	2,50,000.00
460	Supply , installation & laying of tubes and fittings as per requirement and as per PTS-Instrumentation with appendices and Scope of Work C&I. SS 316L TEE (1/2", Class 3000#, Screwed, NPTF, Seamless) ,SS316L GLOBE/BALL VALVE (1/2", Class 800#, Screwed, NPTF, Seamless), SS316L PLUG (1/2", Screwed, NPTM, Hex head, class 3000#), SS316L PIPE NIPPLE (½" NPTM, seamless, schedule #160) Length of the pipe nipple as per requirement, SS316L MALE CONNECTOR (1/2" OD x 1/2" NPTM), SS316L FEMALE CONNECTOR (1/2"OD x 1/2" NPTF), SS316L UNION (1/2" OD), SS316L TUBE (1/2" OD x 0.065" WT), SS316L TUBE (1/4" OD x 0.035" WT)	1	LS	2,50,000.00	2,50,000.00
461	Supply of mandatory spares as per Mandatory Spare (P.017110 G 11075 I001)	1	LS	2,50,000.00	2,50,000.00
462	AT Jharia - Installation of metering skids, metering cabinet under the supervision of skid supplier, cable laying and terminal of cable from skid junction box to metering system cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	1,50,000.00	1,50,000.00
463	At Jharia Installation of gas chromatograph skid, analyser & controller cabinet under the supervision of skid supplier, cable laying and terminal of cable from analyser cabinet to controller cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	1,50,000.00	1,50,000.00
464	At Jharia Installation of H2S & Moisture analyser skids, cabinet under the supervision of skid supplier, laying and terminal of cable from skid field mounted cabinet to LCP/RTU. Including supply of all the required erection, fabrication and civil materials.	1	LS	1,50,000.00	1,50,000.00
465	At SV 28 Spare Input output available in existing RTU, internal wiring at site, field connection, configuration and commissioning., interfacing with LCP and configuration of new parameters in existing RTU, as per Scope of Work.	1	LS	1,50,000.00	1,50,000.00
466	**Sub-Total Section F**				**1,11,07,000.00**
467	**SECTION-G [TELECOM WORKS]**				
468	Supply Telecommunication system, SDH equipment STM-4 Based SDH Cabinet of (2000H x 800W x 800W along with 100 mm base frame) as per below configuration: - 2*STM-4 + 2*STM-1 + 8FE ports as per PTS-Telecommunication system (P.017110 G 11077 I002), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including erection, testing, integration with existing NMS at Noida, Commissioning and integration with existing telecom system at SV 28 additional SFP of L4.2 for SV 28 connectivity	1	Nos	2,50,000.00	2,50,000.00
469	Supply of CCTV-IP based Fixed colour camera and PTZ colour camera along with power cable, communication cable at each station as per PTS-Telecommunication system (P.017110 G 11077 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work., including erection, testing, integration with existing VMS at Noida, Commissioning and integration with existing telecom system at SV 28				
470	Fixed Camera WP IP65	1	Nos	1,50,000.00	1,50,000.00
471	PTZ camera WP IP65	1	Nos	1,75,000.00	1,75,000.00
472	Supply of one Analog phones control room, one number in guard room and one number WP IP66 in field safe area as per PTS-Telecommunication system (P.017110 G 11077 I002) , PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work				
473	Analog Phone	2	Nos	2,500.00	000.00

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474	Analog Phone Ex Proof WP IP 65	1	Nos	65,000.00	65,000.00
475	FXO cards	1	Nos	15,000.00	15,000.00
476	FXS	1	Nos	32,000.00	32,000.00
477	Five pair armoured telephone cable, size 0.5mm2	100	MTR.	250.00	25,000.00
478	AT Jharia- Free issue RTU by GAIL: Transportation from Gail store to site location, installation, cabling from LCP to RTU, commissioning etc. Erection, installation of RTU inside the station control room including supply of all the required erection materials, fabrication and civil works	1	LS	5,00,000.00	5,00,000.00
479	At SV 28 Spare Input output available in existing RTU, internal wiring at site, field connection, configuration and commissioning., interfacing with LCP , cable laying from LCP to RTU, and configuration of new parameters in existing RTU, as per Scope of Work.	1	LS	5,00,000.00	5,00,000.00
480	**Sub-Total Section G**				**17,17,000.00**
	Total of Section A + B + C + D + E + F + G				**12,88,54,460.00**
479	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Total of Section A + B + C + D + E + F + G above	18	percentage	18	2,31,93,802.80
480	Rate of Extended Stay Compensation per month beyond the time schedule and grace period mentioned in Bidding document for reasons solely attribute to Owner (exclusive of GST) Notes:- 1;- Extended Stay Compensation shall be loaded on the quoted price as per evaluation methodology. 2;- In case, no rate for extended stay compensation is stipulated, it will be considered that extended stay compensation is not required by the Bidder and the rates quoted by them shall be valid till completion of works in all respects.	1	Nos	0.00	0.00
481	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Extended Stay Compensation at Sl. No. 480 above	18	percentage	18.00	0.00
	Grand Total				15,20,48,262.80

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Corrtech Energy Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
				UNIT RATE	TOTAL RATE
1	**SECTION-A (MAIN LINE WORKS)**				
2	**CH.0.00 KM to CH.5.667 KM**				
3	**MAINLINE, PIPING AND MECHANICAL**				
4	PIPELINE LAYING / INSTALLATION Laying/ installation of coated line pipe, associated fittings and accessories, etc. as per specifications, drawings, other provisions of Contract and instructions of Engineer-in-Charge, including but not limited to carrying out the following: "Receiving and taking-over", handling, loading, transportation and unloading of Owner supplied coated and bare line pipes and other Free Issue Materials from Contractor's own stock-yard to Work site including stringing on the pipeline Right-of-Use (ROU), Arrangement of all additional land required for Contractor's storage, Performing the additional survey wherein survey data is not sufficient in the opinion of Contractor, arrangement of working RoU if RoU width is not sufficient for equipment/ vehicle movement etc., access for construction (other than Owner provided ROU; Developing necessary access way to the worksite, including earth filling, levelling, etc.; supply of all materials (except Owner supplied materials), supply of all materials, consumables, equipment, labour, etc.; fabrication, Staking and installation of construction markers, clearing, grubbing, grading (as required) of Right of Use; clearing and grading of ROU; Cutting/ uprooting of shrubs, plants, vegetation within ROU; , Trenching to all depths and to a width to accommodate the pipeline with optical fiber cable (inside HDPE Duct) by excavation in all types of soil (in case of hard rock, additional payment for hard rock breaking will be paid as per separate SOR line item), including additional trenching for seismic and other areas as specified,(Rate for laying of optical fibre cable and HDPE Duct not be included here and same to be quoted against separate SOR item); Carrying out repairs of pipe and coating defects not attributable to Owner; Thorough internal cleaning of all pipes by suitable methods to remove debris, shots, grits etc.; Stringing of line pipes along ROU including providing straw bags, soft padding/sand padding; Aligning, cold field bending, cutting and beveling (as required) of pipes for welding and field adjustments, NDT & NDT of re-beveled area, welding, carrying out destructive & non- destructive testing of welds required as per approved NDT specifications (including radiography) and providing all requisite equipment, labour, supervision, materials, films, consumables etc.; carrying out repairs of weld joints as required, carrying out re- radiography and other non-destructive tests on repaired joints, etc.; Installation of carrier pipe including concrete coated pipes (wherever required).				
5	(Concrete Coating on pipes, covered separately) at all crossings including roads/ canals/ nala/ water crossings etc. (supply and installation of casing pipe by open cut or by Jacking/ boaring method covered separately) including pre-testing as required; Carrying out installation of carrier pipe in the casing pipe at cased crossings; Coating of all field weld joints, long radius bends (fabrication of Cold field bends covered here and fabrication of 6D bends by induction heating covered separately), buried fittings etc.; Supply & Installation of warning tape along the entire length of Pipeline including Crossing. Lowering the pipelines in trench, providing required padding over and around the pipeline with sand/graded material (in rocky areas), backfilling with available approved excavated material and/or other suitable soil (supply and providing of soft soil for pre & post padding in Rocky area); Supply and installation of slope breaker as per specifications and drawings in steep slope areas, wherever required; Carrying out hydrostatic testing including air cleaning, flushing, filling, gauging, pressurization of complete pipeline in various test sections as approved by Engineer-In-Charge to the specified test pressure, providing all equipment, pumps, fittings, instruments, dead weight tester, all types of pigs etc., and services, supervision, labour, consumables, arranging water required for hydrostatic testing including supply of corrosion inhibitor, air, etc. as required, locating of leaks and rectification of defects attributable to Contractor, re-testing after rectification, successful completion of hydro-testing of pipeline (De-watering covered else where in the SOR); including all tie-in(s) with the pipeline/ piping installed by others including cutting of test header, re- beveling as required; Carrying out all temporary, ancillary, auxiliary works and all incidental works required to make the pipeline ready for pre- commissioning; Carrying out EGP for the entire stretch of completed pipeline, Repair of defects recorded during EGP/gauge plate run or otherwise including cutting, beveling, welding, NDT, field joint coating etc.; as applicable, Final clean-up and restoration of right of use including obtaining NOC from respective statutory authorities as required and disposal of debris and returning all surplus material to designated disposal areas/storage yard, as directed by Engineer-In-Charge; Restoration of land, facilities and boundary wall etc. at associated facilities dismantled/damaged by the Contractor during construction; Obtaining work permits/ NOC from various statutory authorities having jurisdiction and complying with all stipulation/conditions/recommendation of the said authorities; Preparation of as-built drawings, pipe-book and other records. SOR shall be read in conjunction with Project drawings, scope of work, specifications, standards and other provisions of contract document. The work includes the Survey data & site preparation, Stringing/Chainges in direction, Beveling of pipe element, Welding Procedure Qualification & Welders Qualification, Welding of pipe element, Inspection & testing of production welds, Field joint coating, controlled blasting, chiseling, etc., Material hand over & material handling, Lowering-in & ballasting, All crossings except HDD as mentioned in Crossing List (including installation of carrier pipe inside the Casing at cased crossing), Backfilling (for all depths in all types of soil, soft /hard rock), including trench padding with sand, graded earth in rocky areas & rock shield(if required as per specs) reinstatement				
6	All above works shall be executed in accordance with scope of work, GTS, PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. 1. Supply and Installation of OFC and HDPE Ducts along the entire pipeline route, adjacent to the new pipeline, along with all required accessories, fittings and associated items, is covered separately in the SOR. All above works for buried pipeline (including hook-up pipeline from Tap Off Point inside ONGC GCS, Jharia upto proposed plot for GAIL DT), as per following details :				
7	ND 8", API5L X60 - 6.4 mm	4250	M	1,760.00	74,80,000.00
8	ND 8", API5L X60 - 7.1 mm	1588	M	1,785.00	28,24,580.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Corrtech Energy Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
9	Concrete slabs (Mechanical Protection) as per technical specifications Supply, fabrication and installation of reinforced concrete weights. Reinforced steel size should be 8 mm. top and bottom at a rate of 200 mm c/c of precasted RCC 1:2:4 on pipeline of wall thickness of 75 mm thick and size as per specifications & Standard drawings and instructions of Owner/ Owner's representative including supply of consumables, materials, equipment, labor, supervision, all associated civil works.	110	M	4,000.00	4,40,000.00
10	Continuous Concrete Coating Supply of all consumables and materials, equipments, manpower, submission of application procedure with calculations for anti-buoyancy, design mix procedure qualification and application of continuous concrete weight coating thickness mentioned below (higher also, in case design requirements) on pipeline of all thickness, concrete weight coating of the field joints thereof, and performing all works as per specifications and instructions of Owner/Owner's representative and other provisions of CONTRACT DOCUMENT.				
11	25 mm thick	12	M	2,500.00	30,000.00
12	30 mm thick	12	M	2,500.00	30,000.00
13	GEO TEXTILE BAGS FOR ANTI-BUOYANCY				
14	Additional works over and above item no. 4 to 8 for design, manufacture and supply of Non-biodegradable geo-textile bags and installation of geo-textile bags duly filled with gravel/ stone ballast on pipelines of all wall thicknesses for anti-buoyancy, drawings, scope of work and instructions of Engineer-in-Charge and other provisions of the Contract document.				
15	ND 8" (for all thicknesses)	12	M	2,100.00	25,200.00
16	Permanent Markers Supply, fabrication and installation of following types of permanent markers along the pipeline route including all associated civil works such as excavation in all types of soil, construction of pedestals and grouting with concrete, clearing, supply & application of approved color and quality of primer and paint, stencil letter cutting for numbers, direction, chainage, etc. restoration of area to original condition and performing all works as per drawings, specifications and instruction of Owner/Owner's Representative.				
17	Pipeline Warning Signs	14	Nos	7,500.00	1,05,000.00
18	Right-of-way boundary markers	22	Nos	500.00	11,000.00
19	Kilometer Markers	4	Nos	10,000.00	40,000.00
20	Aerial Markers	1	Nos	25,000.00	25,000.00
21	Directional Markers	69	Nos	7,500.00	5,17,500.00
22	Repair of Defects in Pipe Coating (Attributable to OWNER)				
23	Repair of Line Pipe Coating: Supply of all coating repair materials as per the requirements of the relevant specifications, supply of all consumables, utilities, equipment, and all manpower required, pipe cleaning and surface preparation, repairing of coating defects (resulting in holiday in coating) and testing including all handling, transportation, etc. for line pipes, performing all works necessary for the completion of the works strictly in accordance with the relevant specifications and instructions of OWNER.				
24	Repair of Holidays in Coating	20	Nos	200.00	4,000.00
25	Repair of Cosmetic Defects in Coating: Description of same as in item no 23 above, but for repair of cosmetic defects in coating.	30	m3	250.00	7,500.00
26	**Repair of Defects in Line Pipes**				
27	Repair of OWNER supplied pipes of all wall thicknesses, recorded at the time of taking-over by CONTRACTOR at all places of work.				
28	Cutting and rebevelling	15	Nos	1,000.00	15,000.00
29	Jack out method	15	Nos	1,500.00	22,500.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Corrtech Energy Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
30	All works for locating burst (occurred during hydrostatic testing and tightness test attributable to Owner issued materials) including detecting burst, necessary repairing/replacing defective pipe lengths, including cutting out and removing the defective pipe, pretesting the replacement pipe, welding of replacement pipe into mainline and NDT of welding, repair and re-testing of defective welds, coating of welded joints, cleanup, retesting including providing all labor, materials, consumables and inputs other than OWNER supplied materials and performing all works as per drawings, specifications and directions of Owner/ Owner's representative. In case of pinhole leaks not easily detectable all works for locating leak (occurred during mechanical resistance test and tightness test attributable to Owner issued materials) including detecting leak, The Payment will be made as per actual efforts and based on Equipment and manpower Rate provided in SCC . Further replacement & retesting will be paid as above.	2	Per burst	50,000.00	1,00,000.00
31	LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER) (FOR TERMINAL PIPING) LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER DUE TO FIM) All works for leak/burst (occurring during hydrostatic testing) by necessary repair/replacement of defective pipe length, including cutting and removing out defective pipes, welding, NDT of welds, repair and re-testing of defective welds, painting of welded joints, clean-up, re hydro testing of the pipe segment including providing all necessary equipment, labour, materials, consumables and inputs other than Owner supplied materials and performing all works as per drawings, scope of work, specifications, standards enclosed with the Contract and directions of Engineer-in-Charge. Note: 1. This rate shall be applicable for manufacturing defects in Company supplied materials only.	6	Inch-meter	50,000.00	3,00,000.00
32	IDLE TIME PRESERVATION OF PIPELINE Preservation of complete pipeline and associated facilities and its maintenance including supply of all consumables, all equipment, man- power, etc., complete as per the requirements of specifications, scope of work, standards, other provisions of Contract document and instructions of Engineer-in- Charge. By filling and pressurizing with nitrogen including supply and maintenance of nitrogen as per following details:				
33	Pipe OD - 8 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - 3 MONTH	6030	M	21.00	1,26,630.00
34	Pipe OD - 8 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - FOR EVERY ADDITIONAL MONTH BEYOND INITIAL 3 MONTHS	6030	M	21.00	1,26,630.00
35	**PRE-COMMISSIONING FOR NATURAL GAS PIPELINES SYSTEM, Carrying out pre-commissioning activities and pre-commissioning checks to the specified acceptance criteria, making the entire pipeline system ready for commissioning (It includes cleaning including magnetic cleaning, Electrical Geometrical Pigging survey, dewatering, swabbing,, pre-drying activity, Golden-tie ins connecting the stations),, supply of all equipment, man-power, consumables, including all type of pigs and required quantity of nitrogen, materials for all temporary works and performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.**				
36	Pipe OD - 8 INCH	6030	M	125.00	7,53,750.00
37	**Commissioning Assistance**				
38	OVERALL COMMISSIONING OF ENTIRE PIPELINE SYSTEM Overall commissioning including system checks, inertisation (as required) and charging of entire pipeline system, including all stations and all associated facilities including notifying the Company that the pipeline system is ready for commissioning; Review of status jointly with the Company and obtaining final clearance for start of commissioning; Development and submission of commissioning procedures, obtaining Company approval thereupon, carrying out overall commissioning of the total pipeline system including all facilities and all necessary coordination/ liaison with other Contractor(s) operations; Carrying out commissioning; Supply of all equipment like Nitrogen vapourisers (as required), along with all piping and instruments, temporary venting/ flaring/draining facilities as applicable, man-power, consumables including pigs and required quantity of Nitrogen (as required); Performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.				
39	Pipe OD - 8 INCH	6030	M	25.00	1,50,750.00
40	PIPELINE INFORMATION MANAGEMENT SYSTEM Providing pipeline information management system using web based software for monitoring pipeline construction progress and providing all "As Built" data & drawings for entire length of pipeline as per specifications enclosed with the tender document.	1	LS	3,00,000.00	3,00,000.00
41	VIDEO FILM & PHOTOGRAPHY OF CONSTRUCTION ACTIVITIES Preparation of high resolution video films with audio commentary and Industrial photography covering all aspects/activities of pipeline construction annotated as required, conversion of same to video DVD/Blue Ray format, submitting three (3) sets of the same as per details in scope of work document	1	LS	3,50,000.00	3,50,000.00
	FABRICATION OF LR BENDS :				

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Corrtech Energy Ltd.

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43	Fabrication of 6D bend / LR (Induction) bends as per the relevant standard & Specification attached with the tender document from free issue linepipes (mother pipe) including but not limited to the following: "Receiving and taking over of free issue linepipes" from GAIL Dump Yard location as mentioned in Scope of Work, carrying out inspection of line pipe at the time of receive taking over in the presence of Company representative, carrying out repair of pipe defects attributable to Contractor after taking over, including supply of consumables & equipments; handling, hauling, transportation and loading/unloading required to transport the mother pipes between place of issue, LR bend fabricator/ manufacturer, intermediate storage as required, and final delivery of fabricated LR Bends to the worksite(s), as per requirement, Manufacturing/ fabricating of LR Bends, as per project requirements and Specifications. LR bends exact angle(s) shall be as per pipeline alignment. Note:- 1. Rate for repairing of defects in linepipes identified and recorded at the time of receiving & taking over i.e. defects attributable to Company shall be quoted separately in the applicable items of the SOR. 2.Loading of Pipe into installation contractor trailer shall be carried out by the GAIL Dumpyard maintenance agency already engaged by the Company.				
44	Bare Pipe ND 8", API5L X60 - 6.4mm	8	Nos	45,000.00	3,60,000.00
45	Bare Pipe ND 8", API5L X60 -7.1 mm	15	Nos	55,000.00	8,25,000.00
46	**SUPPLY AND INSTALLATION OF CASING PIPE & 6 INCH CS CONDUIT:** Supply and installation of casing pipe and 6 inch CS conduit for OFC by jacking / boring or open cut for rail, road or canal crossings wherever required in all types of soils and terrain separately for carrier pipes and fibre optic cable inside HDPE duct, supply of casing pipes and all other Contractor supplied materials viz. casing insulators and casing end seals as per enclosed drawing, materials for casing vents and drains, etc. including transportation, supply of all other materials, equipments, consumables, man-power, welding including visual inspection of all weld joints, installation of casing insulators, end seals, vents and drain-off pipes, backfilling and restoration as original of the facility crossed and performing all works as per drawings, specifications including PTS and GTS and instructions of Engineer-in Charge and provisions of Contract document.				
47	Supply and installation of Casing pipe by Boring / Jacking as per item no. 46 (Railway crossing) Casing Pipe Details: (Pipe 14" , 8.7 mm Thick, API 5L GR.B)	200	M	16,000.00	32,00,000.00
48	Supply and installation of Casing pipe by Boring / Jacking as per item no. 46 (Other than Railway Crossings) Casing Pipe Details: (Pipe 14" , 6.4 mm Thick, API 5L GR.B)	12	M	12,000.00	1,44,000.00
49	Supply and installation of 6 inch CS Conduit by Boring/Jacking as per item no. 46 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	200	M	12,000.00	24,00,000.00
50	Supply and installation of Casing pipe by open cut as per item no. 46 Casing Pipe Details: (Pipe 14" , 6.4 mm Thick, API 5L GR.B)	12	M	7,000.00	84,000.00
51	Supply and installation of 6 inch CS Conduit by open cut as per item no. 46 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	12	M	7,000.00	84,000.00
52	**HDD CROSSING**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
53	**Generalities**				
54	Topographic / Bathymetry, Geotech Investigation and Hydrological data collection				
55	Site preparation				
56	Design & stress calculations as per requirement				
57	Material hand-over and material handling				
58	Site reinstatement				
59	Final dossier including all notes & calculations as required in the specification				
60	***Installation of 6 inch CS Conduit***				
61	Teletransmission--Separate Drilling for 6 inch CS Conduit for OFC installation				
62	Installation of HDPE duct & OFC cable inside 6 inch CS conduit				
63	Drilling & Pulling of 6 inch CS Conduit shall be done before mainline HDD.				
64	***Pipeline string***				
65	Beveling & welding				
66	Inspection & testing of welds				
67	Field joint coating				
68	Temporary support (roller)				
69	Control of pipeline string				
70	Hydrotesting & leak test				
71	***Drilling operation***				
72	Earthwork entry / exit points including grading erection of embankment etc..				
73	Supply & clearing out of all material needed for drilling				

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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74	Drilling of washer pipe, reaming & cleaning of drill opening, supply and preparation of bentonite				
75	Pull back of the pipe string				
76	Disposal of surplus of soil & bentonite				
77	Control of the integrity of the coating				
78	***Work at entry point***				
79	Changes in direction				
80	Beveling & welding				
81	Inspection & testing of welds				
82	Field joint coating & coating of all bare section of pipe				
83	Earthwork				
84	Lowering-in				
85	backfilling as required				
86	***Work at exit point***				
87	Changes in direction				
88	Beveling & welding				
89	Inspection & testing of welds				
90	Field joint coating & coating of all bare section of pipe				
91	Earthwork				
92	Lowering-in				
93	backfilling as required				

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				Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**
M/s. Corrtech Energy Ltd.					
S. NO.	**WORK DESCRIPTION AND SUPPLY**	**UNIT**	**QTY**	**PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR**	
94	Complete work for the water/ Road/ Rail crossings, including taking over and handling of linepipes from Contractor Storage Yard to worksite, Arrangement of all additional land required for Contractor's storage, fabrication, access for construction; construction design calculation and engineering of the crossing, mobilization and demobilization at site(s), supply of all materials as per "Scope of Supply" and all consumables, equipment, manpower and other resources, and acquiring the required land for site preparations, and execution of, but not limited to, the following works in accordance with specifications, drawings, and as per provisions of the Contract document and instructions of the Company/ Engineer-in- Charge: Carry out all surveys required for collecting data relevant to design and construction of the crossing, preparation of all necessary construction drawings for Company's approval as per the provisions of the Contractor document, Preparation of detailed construction method statement and calculations including Scour Depth calculations for river/ canal crossings, Strings preparation including welding, 100% Radiography of welds, NDT of welds and re-beveled areas, radiography, weld repair and re-test, pre-testing of completed string, corrosion coating of field joints with Dirax or equivalent, inspection of corrosion coating and repair of defects, Preconstruction surveys and collection of all necessary data, Installation of pipeline and CS conduit (6 Inch CS Conduit shall be installed through Seperate Drilling) , horizontal directional drilling to the correct profile as per approved drawings and specification, Post-installation hydrotest including leaks and repair of defects and retesting, etc. for defects attributed to Contractor's faulty work, Supply, fabrication and construction of protective fencing as required, Hydrotesting, Supply, fabrication and erection of pipeline markers, Restoration and clean-up etc., Preparation of as-built drawings and other records etc., All other works not specifically listed herein, but required as per specifications, drawings, provision of contract document, calculations, and construction method statements, leading to successful completion of works.				
95	Linepipe details:- (Pipe 8" dia, Wall Thickness: 7.1 mm, Pipe Grade: API 5L GR.X-60 PSL 2, External Coating: 3LPE) CS Conduit details: (Pipe 6" dia, 6.4mm Thick, API 5L GR.B) Note: 1. CS Conduit shall be supplied by the Contractor. Radiography & Hydrostatic testing is not required to be done for CS Conduit. (6 Inch CS Conduit shall be installed through Seperate Drilling) Contractor shall quote accordingly. 2. The rate shall be applicable for the drilled length of the HDDs. All above works shall be executed in accordance with scope of work, GTS,PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. This line item is applicable for HDD crossing mentioned in the Crossing List with prior approval of Engineer - In-Charge during Construction.	192	M	34,000	65,28,000.00
96	**SUPPLY & INSTALLATION OF OPTICAL FIBBE CABLE AND HDPE DUCT**				
97	Suppy of 24 Fibre Composite armoured Optical Fibre Cable drum (6 fibre G-655 & 18 fibre G-652) of 4 km +/-5% Cable drum length with fiber terminal closure, inspection chamber, electronic route marker all along pipeline route, Two number electronic locater as per PTS-Optical Fibre cable and Scope of Work C&I along with all required accessories and fitments not mentioned seperately.	7000	M	65	4,55,000.00
98	Inspection/Jointing Chamber (fabricated or readymade)	3	Nos	14,659	43,977.00
99	Blowing Pit (fabricated or readymade)	7	Nos	3,665	25,655.00
100	Supply of jointing closure 24 Fiber, 2 way including all accessories (3M, Siemens, Reychem make only)	3	Nos	3,665	10,995.00
101	Supply of End to End OFC termination of wall mounted FTC with pig tails other accessories for termination of OFC - 24 Fibre in the Telecom Room at Jharia & SV28	2	Nos	10,994	21,988.00
102	Electronic marker	3	Nos	3,078	9,234.00
103	Electronic Locator	1	Nos	1,00,000	1,00,000.00
104	Supply of 50mm OD permanently lubricated HDPE telecom duct along with all the required accessories as per PTS-Optical Fibre cable and Scope of Work C&I	7000	M	62.00	)00.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Corrtech Energy Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
105	Laying of HDPE Duct : Laying of 50mm HDPE Ducts in same pipeline trench direct buried, or inside 6 inch CS conduit at various crossings as per Specification in all type of soil & terrain, excavated as required, padding, backfilling, etc. including supply of accessories required for HDPE Duct installation, including plastic couplers, end plugs, cable sealing plugs, end caps, etc. suitable & sufficient for above supplied ducts, cleaning and sealing of ducts at the end laid drum lengths, preparation and supply of cable blowing pit at each Km jointing of HDPE duct, testing of HDPE Duct and accessories after laying preparation of report and final drawing and documents as per specification, joint location marking, erection accessories, as-built, etc.	7000	M	60.00	4,20,000.00
106	Blowing of Optical Fibre Cable inside HDPE Duct : All activities pertaining to Blowing of Optical Fibre Cable in same pipeline trench directly (after testing drum at site), inside HDPE duct along the pipeline and at crossing, sealing using all materials required as per specification	7000	Nos	50.00	3,50,000.00
107	Installation of FTC & Wire mesh, termination of OFC on FTC / DDF inside telecom room, splicing with steet fibre, fibre test, OTDR test, power testing of laid OFC, identification of fault, rectification, earthing, final testing and commissioning, preparation of reports, etc. work complete in all respect with all necessary accessories for all location till final Handing Over and Taking Over by Owner of laid OFC.	1	LS	15,000.00	15,000.00
108	**TRANSPORTATION OF COATED AND BARE LINEPIPES FROM GAIL DUMPYARDS (ANY LOCATIONIN INDIA) TO CONTRACTOR STORAGE YARD:**				
109	"Receiving and taking over" of "free issue" Linepipes from GAIL Dump Yard location (any location in India); Carrying out inspection of Linepipes at the time of receiving and taking-over, recording of pipe & coating defects at the time of taking over in the presence of Company's representative, carrying out repair of coating defects & pipe defects attributable to Company; including supply of materials, consumables & equipments; handling, hauling and transportation from designated place of issue to Contractor Storage Yard; unloading and stacking of the linepipes at Contractor Storage Yard; including arranging all equipments, trailers, trucks & manpower; all works as per Scope of Work, drawings, PTS, GTS and other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, Provision of Contract & instructions of Engineer InCharge.				
110	Linepipe Details:- Coated and Bare Line Pipe 8" diameter API 5L Gr. X-60 PSL-2 Wall Thickness - 6,4mm / 7.1mm External Coating - 3LPE, Internal Coating - Liquid Epoxy 1) Loading of Pipes into Installation contractor's trailer shall be carried out by the contractor. 2) Development & Maintenance of Contractor Storage Yard adequate to store the linepipes including arrangement of all Lifting & Handling equipment at Contractor's Storage Yard shall be done by the Contractor. Rate for the same shall be quoted in applicable items. 3) Rate for repairing of coating defects in linepipes identified and recorded at the time of receiving & taking over i.e. coating-defects attributable to Company shall be included in this item. 4) Rate for repairing of pipe-defects identified and recorded at the time of receiving & taking over i.e. pipe-defects attributable to Company shall be quoted separately in the applicable items of the SOR. 5) Transportation of line pipe from Contractor's Storage Yard to work site is included in SOR item 1 above, No separate payment will be applicable for the same.	350000	Ton-Km	20.00	70,00,000.00
111	TRANSPORTATION OF FREE ISSUE PIPING ITEMS (OTHER THAN LINE PIPE) FROM GAIL STORAGE YARDS (ANY LOCATION IN INDIA) TO CONTRACTORS YARD / WORKSITE(S) : "Receiving and taking-over", handling, lifting, loading, transportation and unloading of Company supplied "free-issue materials" (Other than line pipe) viz. Metering Filtering and PRS Skid, Scrapper Launcher/ Receiver & accessories, Valves with or without Actuators, Insulation Joints, Flow Tee, Pig Signallers, fittings, flanges etc. from GAIL Storage yards location (any location in India) to Contractor's Storage Yard / work-site(s). Note:- 1) Location of GAIL Storage Yard shall be anywhere in India. Contractor shall quote accordingly. 2) Transportation of FIM from Contractor's Storage Yard to work site, is included in SOR item 119 below, No separate payment will be applicable for the same.	24000	Ton-Km	28.00	6,72,000.00
112	**DEVELOPMENT OF CONTRACTOR STORAGE YARD:**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL**	**Rev.00** **Date-11.02.2022**
		Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**

M/s. Corrtech Energy Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
113	Development of the Contractor Storage Yard including fencing, illumination etc., including deployment of all lifting and handling equipments, manpower required to stack, unload and load all Free Issue Material (FIM) including Line Pipes and all bought out items, as required; storage of all Free Issue Material and bought out items for the required duration as per project requirement, all works as per Scope of Work, drawings, other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, PTS, GTS and Provision of Contract & instructions of Engineer In-Charge. The storage yard shall be used for storage of all Free Issue Line pipes, all other Free Issure Material (FIM) and all bought out items required for the project. Notes:- 1) Development of contractor storage yard adequate to store all the material required for Project, including all Free Issue Material (FIM) and bought out items. (Rate for the same shall be captured in this item) 2) Maintenance of contractor storage yard for the entire project period is included in the scope of contractor. No separate payment shall be applicable for the same.	1	LS	10,00,000.00	10,00,000.00
114	Hard Rock breaking by controlled blasting / chiseling method (rate will be applicable in case when prior approval for rock breaking is obtained by the contractor from GAIL / PMC)	50	M3	1,500.00	75,000.00
115	Clean Agent Fire Supression System as per Scope of Work	1	LS	25,00,000.00	25,00,000.00
116	Restoration of underground utilities (pipes & cables) during excavation at ONGC, GCS Jharia and Receiving Station (which is inside SV-28 Premises)	5	Nos	10,000.00	50,000.00
117	**Sub-Total Section A**				**4,06,02,889.00**
118	**SECTION-B [MECHANICAL (PIPING & TERMINAL WORKS)]**				
119	**PIPING WORKS AT DESPATCH AND RECEIVING STATIONS AND HOOK-UP WITH ONGC GCS, JHARIA** All works for installation of all piping at all elevations for Despatch and Receiving Stations as indicated in Drawings, Scope document, including supply of all consumables, Gaskets, nuts, bolts Studs, manpower, materials and equipment (except Company supplied free-issue materials), aligning, grouting, tie-in with pipeline and carrying out all mechanical works of underground and above ground piping including fabrication, welding, installation of all pipes, valves (manual & actuated), flanges, fittings, flow tees, pig signalers, insulating joints, corrosion monitoring probes /corrosion coupons, installation of instruments (pressure/temperature gauges, vents, drains-off, safety relief valves, electro hydraulic valves etc.) as indicated in P& IDs and GADs. 100% Radiography of weld joints of piping above 1.5 inch, Magnetic particle & Die penetration test for piping 1.5 inch & below, all NDT of welds, weld repairs/retesting, hydrostatic testing, cleaning/flushing, functional testing, de-pressurizing , Drying and dewatering, cutting and re-beveling (as required), hookup of all pipeline/utilities at the battery limit with the pipeline/utilities installed by others, obtaining all statutory clearances, approvals and permissions for the work (wherever required), excavation and filling in all types of soils including soft/hard rock for installation of piping/ pipe supports; corrosion coating and external painting (as required), finishing, clean-up and restoration of site, preparation of as- built drawings, documents and project records and performing all works as per drawings, specifications, other provisions of Contract document and instructions of Engineer-in-Charge. Civil/ structural works for piping supports will be paid separately as per unit rate provided elsewhere in the contract. Cost of Transportation of all materials (Including FIM mentioned above) for station works, from Contractor's own stock-yard to Work site, to be included in this SOR item. No separate payment will				
120	Fabrication and Erection of piping as per item no.110, (For Pipe Size 2 Inch and above, 100% Radiography) Note: 1. Rate for Handling, Fabrication and erection of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item. Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor.Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes 2" & above, shall also be part of this item. Contractor shall quote accordingly.	1500	INCH DIA METER	750.00	11,25,000.00
121	Fabrication & Erection of Piping as per item no. 110 (For Pipe Size Below 2 inch, Magnetic particle & Dye Penetration Test as per the requirement of specification) Note: 1. Rate for Handling and installation of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item.Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor. Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes below 2", shall also be part of this item. Contractor shall quote accordingly.	50	INCH DIA METER	1,500.00	75,000.00
122	Painting of Piping (Pipe, Fittings, Flanges, Valves, Equipments, etc.) as per item no. 110	1550	ICH METER	550.00	8,52,500.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Corrtech Energy Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
123	Hydrostatic testing, cleaning / flushing, functional testing, de-pressurizing, dewatering & drying of Piping as per item no. 110 (for all size upto 10").	1550	ICH METER	375.00	5,81,250.00
124	**INSTALLATION OF COMPANY SUPPLIED FIM (FML SKID AND PIG LAUNCHER/RECEIVER SYSTEM) AT DESPATCH TERMINAL AND RECEIVING TERMINAL**				
125	Installation of Company supplied Filtering, Metering and PRS Skid and Scrapper Launcher/ Receiver with accessories, at stations including all handling and installation works; as per drawings, specifications enclosed with the Contract and directions of Engineer-in-Charge. Cost of Transportation of above Free issue items, from Contractor's own stock-yard to Work site for station works, to be included in this SOR item. No separate payment will be applicable for the same.	1	LS	5,00,000.00	5,00,000.00
126	**CONTRACTOR SUPPLIED ITEMS:(Supply of Items as per attached PTS,GTS,Data Sheet,QAP and PMS)**				
127	**Station pipe -Seamless**				
128	1" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, PE, SEAMLESS	6	METER	850.00	5,100.00
129	2" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	90	METER	1,200.00	1,08,000.00
130	4" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	135	METER	2,000.00	2,70,000.00
131	8" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	50	METER	3,500.00	1,75,000.00
132	8" pipe, 6.4mm thk, ANSI B 36.10, API5L X 60, BE, HFERW/SEAMLESS	29	METER	3,500.00	1,01,500.00
133	10" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	12	METER	4,000.00	48,000.00
134	**Supply of Fitting & Flanges**				
135	1 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 350 LF2,CL1, BW, ANSI B16.25	4	Nos	850.00	3,400.00
136	2 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25.	3	Nos	1,700.00	5,100.00
137	1" WNRF FLANGES, 6C1, SCH. 160 / 600#, WNRF, B-16.5, ASTM A350 LF2, CL1, BW-ANSI B16.25 RF	4	Nos	450.00	1,800.00
138	8", WNRF FLANGES, 6C2, 6.4 thk/ 600#, WNRF, B-16.5, ASTM A694 F60 OR EQUIVALENT, CL1, BW-ANSI B16.25 RF.	5	Nos	6,000.00	30,000.00
139	1", BLIND FLANGES, 6C1, 600#, RF, B-16.5, ASTM A350 LF2, CL1, RF	4	Nos	450.00	1,800.00
140	3/4" EQUAL TEES, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25,	1	Nos	500.00	500.00
141	3/4", CUP THREADED 6C1, 6000#, ANSI B16-11, ASTM A 350 LF2, CL1 , BW - ANSI B16.25, ANSI B1.20.1,	3	Nos	500.00	1,500.00
142	**WELDOLETS (MAINLINE x BRANCH SIZE)**				
143	4" x 1", WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1 ,	2	Nos	1,000.00	2,000.00
144	8" x 2" WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 6.4 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 694 F60	13	Nos	4,500.00	58,500.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Corrtech Energy Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
145	8" x 2", WELDOLETS (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	26	Nos	9,000.00	2,34,000.00
146	**GASKETS**				
147	GASKETS, 6C1, 600#, RF, ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 1"	12	Nos	95.00	1,140.00
148	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 2"	210	Nos	150.00	31,500.00
149	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 4"	30	Nos	300.00	9,000.00
150	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 8"	47	Nos	1,050.00	49,350.00
151	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 10"	2	Nos	680.00	1,360.00
152	**NIPPLES**				
153	NIPPLES, 6C1, Sch 160 /600#, ANSI B 36.10, ASTM A333 GR.6, BOTH ENDS PLAIN, SEAMLESS-LG=100mm, 3/4"	12	Nos	150.00	1,800.00
154	NIPPLES, 6C1, Sch 160 / 600#, ANSI B 36.11, ASTM A333 GR.7, ONE END THRD -MNPT SEAMLESS- LG=100mm, 3/4"	8	Nos	150.00	1,200.00
155	**INSULATING JOINT**				
156	INSULATING JOINT 6C,16.4 mm (X60) x 600# ,MANUFACTURER STANDARDS ,ASTM A694 F60 ,BW - ANSI B16-25, 8"	2	Nos	1,50,000.00	3,00,000.00
157	**Supply of following Valves as Per attached PTS,GTS,Data Sheet,QAP,PMS & MTO**				
158	1",BALL VALVE - FULL BORE (RF) (ABOVE GROUND),6C1	6	Nos	12,000.00	72,000.00
159	3/4", CHECK VALVE (RF) (AG), 6C1	2	Nos	7,000.00	14,000.00
160	3/4",NEEDLE VALVE, 6C1	5	Nos	7,000.00	35,000.00
161	**Note (Applicable for all items of SOR Item No 126 to 160):** **1. Before procurement of any of the above materials Contractor will take prior approval from GAIL / PMC.** **2. Payment will be made for actual quantity used.**				
162	**Sub-Total Section B**				**46,96,300.00**
163	**SECTION-C [CIVIL / STRUCTURAL & ARCHITECTURAL]**				
164	**CIVIL , STRUCTURAL & ARCHITECTURAL**				
165	**Earthwork excavation in soil**				
166	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	1770	cum	300.00	5,31,000.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
167	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth beyond 1.5m and upto and inclusive of 3.0m including Removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	50	cum	450.00	22,500.00
168	**Earthwork excavation in soft rock**				
169	Earth work in EXCAVATION below ground level for all kinds of works in SOFT ROCK and HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as irected including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	130	cum	1,000.00	1,30,000.00
170	**Backfilling after execution of work**				
171	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps within a LEAD OF 100M,including re-excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/ mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	580	cum	100.00	58,000.00
172	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps beyond a LEAD OF 100M AND UPTO & INCLUSIVE OF 500M including re- excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	250	cum	150.00	37,500.00
173	**Transporting & Disposing the SURPLUS EARTH AND DEBRIS**				
174	Transporting and disposing the SURPLUS EARTH AND DEBRIS including shrubs and vegetations from construction areas to areas ANYWHERE OUTSIDE THE PLANT BOUNDARY, including re-excavating the deposited soil excavated earlier, loading, transportation, unloading, laying at all depths and heights, stacking,levelling and dressing both the area (viz. from where the earth is transported and where it is deposited) to required levels and slopes complete with all lifts as directed. For carting on the basis of truck measurements (volume of truck reduced by 30% for voids). DISPOSAL AREAS OUTSIDE PLANT BOUNDARY TO BE ARRANGED BY THE CONTRACTOR. Royalty as applicable for disposal outside plant limits to be borne by the Contractor	760	cum	250.00	1,90,000.00
175	**EARTH WORK FILLING BY EXCAVATION**				
176	EARTHWORK IN FILLING by excavating the earth from BORROW AREAS arranged by CONTRACTOR for all leads, transporting the earth from borrow area including cleaning & stripping the earth at borrow areas, breaking clods, loading, unloading and laying at all depths and heights in layers of thickness not exceeding 15 cms., watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% of the maximum laboratory dry density, ressing, trimming, levelling the top surface etc. in foundations, plinths, trenches etc. all complete.	4725	cum	550.00	25,98,750.00
177	**PLAIN & REINFORCED CEMENT CONCRETE: (REFER SPECIFICATION NO. (Z/02/0004)**				
178	**PLAIN CEMENT CONCRETE - PCC**				
179	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:4:8 (1 cement : 4 coarse sand (Zone-III) : 8 graded stone aggregate 40 mm nominal size)	105	cum	5,000.00	5,25,000.00
180	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:3:6 (1 cement : 3 coarse sand (Zone-III) : 6 graded stone aggregate 40 mm nominal size)	20	cum	5,500.00	1,10,000.00
181	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:2:4 (1 cement : 2 coarse sand (Zone-III) : 4 graded stone aggregate 20 mm nominal size)	120	cum	5,600.00	)00.00

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			Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
182	Providing and laying PLAIN CEMENT CONCRETE for all depths below and upto plinth level in foundations, drains, fillings, non-suspended floors, pavements & ramps or any other works etc. including shuttering, tamping, ramming, vibrating, curing, etc. all as specified in any shape, position, thickness and finishing the top surface rough or smooth as specified and directed all complete for concrete grade M20 with 20mm and down size graded crushed stone aggregates/Gravels. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR	110	cum	5,700.00	6,27,000.00
183	**RCC WORKS**				
184	**SUBSTRUCTURE**				
185	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUBSTRUCTURE INCLUDING CENTERING & SHUTTERING) e.g. foundations, raft, beams, pile caps, Retaining walls, counterforts, buttresses, pedestals, pipe sleepers, columns, suspended floors, staircases, landings, steps, brackets etc., including equipment/ machine foundations & pedestals viz. compressors, generators, etc. (including single pour concreting as specified on the drawing), applying cement wash on concrete surface (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering, etc., wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT)for all depths below and upto plinth level in any shape, position and thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	615	cum	9,000.00	55,35,000.00
186	**SUPER STRUCTURE - EXCLUDING CONTROL ROOM BUILDING, GUARD ROOM & BOUNDARY WALL**				
187	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUPER STRUCTURE INCLUDING CENTERING & SHUTTERING in suspended floors, slabs, beams, columns, walls including counterforts, staircases, landings, steps, facias, fins, mouldings, gutters, shelves, window sills, canopies, lintels, girders, ducts, brackets, chajjas with drip moulds, pedestals, posts, struts, equipment/ machine foundations, ramps etc. (including single pour concreting as specified on the drawing), providing cement wash (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT) FOR ALL HEIGHTS UPTO & INCLUSIVE OF 20 m ABOVE PLINTH LEVEL in any shape, position, thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	70	cum	10,000.00	7,00,000.00
188	**CONTROL ROOM BUILDING (SUPERSTRUCTURE)**				
189	Construction of Control Room Building as per drawings and specification. Building work for all Superstructure works INCLUDING CENTERING & SHUTTERING , Reinforcement , masonry work, partition wall, Plastering & pointing, flooring, Floor finishes, Door & windows, rolling shutter, false ceiling, all finishes, painting, roof treatment complete in all respect etc.)	215	m2	12,000.00	25,80,000.00
190	**GUARD ROOM (SUPERSTRUCTURE)**				
191	Guard Room as per drawings and specification. Building work for all superstructure works including (Reinforcement, masonry work Plastering & pointing, flooring, Floor finishes, Door & windows, painting, roof treatment, all finishes, water supply and sanitary work complete in all respect etc.)	17	m2	12,000.00	2,04,000.00
192	**HYD Bars / MS Bars**				
193	Supplying and placing in position HIGH YIELD STRENGTH DEFORMED STEEL BARS REINFORCEMENT of Grade Fe500D TMT conforming to IS:1786, for RCC work (excluding control room building & Guard room & boundary wall superstructure) including transporting the Steel, straightening, cleaning, decoiling, cutting, bending to required shapes and lengths as per details, binding with 18 SWG black soft annealed binding wire at every intersection, supplying and placing with proper cover blocks, supports, chairs, overlaps, welding, spacers, fanhooks etc. for all heights and depths etc. all complete as directed. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE	70	MT	1,00,000.00	70,00,000.00
194	**STRUCTURAL STEEL WORKS (REFER TE SPECIFICATION)**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL**	**Rev.00** **Date-11.02.2022**
		Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**

M/s. Corrtech Energy Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
195	Supplying, fabricating and erecting of structural steel and applying COATING (Post-erection/ Field) of approved quality and shade as per TE Specification or Job Specifications, wherever applicable) over the coat of shop primer already applied, including storage, surface preparation, degreasing, cleaning, drying, providing necessary arrangement for access, testing etc. including touching up of shop for steel structures (Including Wicket Gate, Main Gate and emergency gate, excluding ladders, spiral stairways & hand rails) at all location & levels, all complete as specified, for UNIT (INLAND) areas considering environment classification as INDUSTRIAL. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE. (Unit rate based on Structural steel weight)	25.5	MT	6,000.00	1,53,000.00
196	**MISCELLANEOUS STEEL WORKS (REFER TE - SPECIFICATIONS)**				
197	MS Chequered Plates				
198	Supplying, fabricating and erecting in position at all levels and locations bolted, screwed and/or welded M.S. CHEQUERED PLATES of any thickness in walkways, platforms, stairtreads or any other place as directed, etc. cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing, welding, preparation and submission of fabrication drawings and preparing the surfaces for painting and applying shop primer as per TE Specification after fabrication and return of unused/ scrap/ unserviceable chequered plates to Owner's store and material reconciliation etc. all complete as specified and directed	1.5	MT	1,10,000.00	1,65,000.00
199	Anchor Bolts				
200	Supplying, fabricating, fixing and keeping in position at all levels and locations THREADED ANCHOR BOLTS of all diameters and nomenclature including nuts, washers, anchor plates, pipe sleeves etc. in foundations, columns, pedestals, slabs, beams, walls etc. or any other place as directed including handling & transporting, straightening if required, turning from relevant size M.S. rounds to required diameter, threading, welding, providing necessary templates and auxiliary dummy structures, if any, necessary tying and welding with reinforcement, adjustment of shuttering & reinforcement/any other fixture, greasing exposed metal surfaces, covering bolts and packing the sleeves with jute cloth etc. all complete as specified and directed.(SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.6	MT	1,12,000.00	1,79,200.00
201	MS Metal Inserts				
202	Supplying, transporting, storing, fabricating and fixing in position M.S. METAL INSERT (with lugs) of any shape made out of flats, plates, rolled sections, pipes etc. providing necessary templates, staging, cutting,straightening, if required, bolting, welding as required and embedding in position on both Plain and Reinforced Cement concrete members inclusive of adjusting shuttering & reinforcement/ any other fixture, welding where necessary, tying and holding to correct level, line and position, any auxiliary dummy structures to support the heavy inserts, painting exposed surfaces with a coat of primer as per TE Specification all complete for all depths and heights as specified and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	0.55	MT	1,10,000.00	60,500.00
203	MS Grating				
204	Supplying, fabricating and erecting in position at all levels and locations ELECTROFORGED GALVANISED GRATING (purchased from approved manufacturer by the Contractor) conforming to TE STANDARD (in walkways, platforms, stair treads etc.) including cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing with manufacturer's supplied galvanised clamps, preparation and submission of fabrication drawings, all complete as specified and directed (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.85	MT	1,25,000.00	2,31,250.00
205	Hand Railing 1000mm				
206	Supplying, fabricating and fixing in position at all locations 1000mm high INCLINED HAND RAILING (for staircases) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade M.S. Tubes conforming to IS:1239 including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE SPEC. preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	10,000.00	1,00,000.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Corrtech Energy Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
207	Supplying, fabricating and fixing in position at all locations 1000mm high HORIZONTAL HAND RAILING (for platforms, walkways, etc. or any other location as directed) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade MS Tubes conforming to IS:1239 and 100x5 MS Toe Plate confirming to IS:2062 (Grade A/B), including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE standard drawing & specification, preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	8,000.00	80,000.00
208	**CHAIN LINK FENCING**				
209	Supplying, fabricating and fixing G.I. chain link fencing with 3.5mm dia. wire, 50x50mm diamond mesh chain link fence fabric conforming to IS:2721 fixed to steel/RCC posts/struts above ground level, including supply of chain link fencing fabric in 1.9 metre wide rolls, stretcher bars, staples, etc. required for fixing the fencing, fixing of chain link fencing between straining posts, fixing of bottom of fencing in cement concrete 1:2:4 blocks and painting with synthetic enamel etc. , including supply and fixing line wires, complete as per drawings, specifications and directions of Engineer -in-Charge (All materials shall be supplied by Contractor). (The measurement of chain link fencing shall be on linear basis for 1.9 m wide fencing fabric)	10	M	10,000.00	1,00,000.00
210	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of the Engineer-in-Charge. Made of G.I. wire of dia. 4 mm, PVC coated to achieve outer dia not less than 5 mm in required colour and shade.	600	M2	1,000.00	6,00,000.00
211	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Star' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	200	M	2,500.00	5,00,000.00
212	**ROADS & FLEXIBLE PAVEMENT (UPTO WBM LAYER)**				
213	Preparation and consolidation of sub-grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth outside the property boundary in the un-disputed areas as directed by Engineer-In-Charge.	1500	M2	6,000.00	90,00,000.00
214	Supplying and laying of stone aggregate of 63mm down to 45mm size for WBM layer Base Course, tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 75mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding material of plasticity index upto 6%, including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts etc. complete as per drawings, specifications and directions of Engineer-in-Charge	4500	M2	3,000.00	1,35,00,000.00
215	**CONCRETE PAVEMENTS**				
216	Construction of dry lean cement concrete **(DLC) sub base** over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in- charge.	150	cum	12,000.00	18,00,000.00
217	Providing and laying Reinforced Cement Concrete with 20mm and down size graded crushed stone aggregates in flooring, pavements etc. including leaving pockets, if necessary, making recess/drains, laying in alternate panels, etc. for all depths including shuttering, tamping, curing, providing dowel bars with sleeves/tie bars etc where ever required at site. as specified in any shape, thickness, position and finishing the top surface smooth etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For RCC of M-30 grade concrete (all materials including cement but excluding cost of providing & fixing reinforcement and joint sealing shall be supplied by the contractor).	375	cum	11,500.00	43,12,500.00

Prepared Checked Approved

TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Corrtech Energy Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
218	Providing 20mm wide Expansion Joints in pavement slabs as per general technical specification including cleaning the joints of all loose material, filling with 20mm thick impregnated fibre boards for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved Joint Sealing Compound as per IS:1834 Type-B etc. all complete as per drawings, specifications and directions of Engineer-in-Charge	720	M	600.00	4,32,000.00
219	Sealing joint around pedestal and column etc. 20mm wide x 150 mm deep including filling with 20mm thick impregnated fire board for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved joint sealing compound as per IS:1834 Type-B.	300	M	350.00	1,05,000.00
220	**RCC PIPE CULVERTS & ELECTRICAL ROAD CROSSINGS ETC. (as per drawing & TE specification)**				
221	Supplying and laying in position RCC pipes with collars conforming to IS:458 for pipe culverts, cable crossings etc. including cutting the pipe if necessary, lowering, laying in position to proper levels, slopes etc. caulking the joints with spun yarn soaked in neat cement slurry and finishing with cement mortar 1:2 (1 cement : 2 sand) curing etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For following Class and Internal PIPE DIA (MM). (Dia (internal) - 500 mm, Pipe Class - NP3)	20	M	3,850.00	77,000.00
222	**U/G AND A/G G.I. PIPELINE SYSTEM - WATER SERVICES tender specification**				
223	Supplying and laying mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ ASTM A105 (Galvanized) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, earthwork in excavation for trenches, valve pits, etc. in all types of soil excluding soft and hard rock including laying of pipes in trenches, joining the pipes and fittings with threaded connections, hydrostatic testing of the piping, backfilling the trenches with selected/approved earth fill material, cutting of roads wherever required, making good the road surface after laying, disposal of surplus earth within a lead of 500 m, etc. including supply of necessary fittings etc. complete as per specifications, drawings and directions of Engineer-in-Charge. For following Nom.Size in mm. (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	650.00	6,500.00
224	Supplying and laying above ground mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ASTM A 105 (GALVANISED) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, including laying of pipes on sleeper, walls, including erecting piping on columns, etc. for pump station, overhead tanks, etc. including joining the pipes and fittings with threaded connections, hydrostatic testing of the piping including supply of necessary fittings etc & pipe supports. complete as per specifications, drawings and instructions of Cement Supplied by contractor (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	1,000.00	10,000.00
225	**MISC. CIVIL AND STRUCTURAL WORKS FOR U/G PIPING AND OTHER CIVIL WORKS**				
226	Providing and laying brick masonry with locally available bricks of specified class (Brick of class lower than specified shall not be accepted) in cement mortar 1:4 (1 cement : 4 Coarse sand) in one or more brick thickness and in any shape in foundation and plinth for valve pits, drains, circular/square manholes, wing walls, etc. including providing recesses, openings, etc. including curing, finishing the joints flush below ground level and raking out joints in plinth with all labour and material, etc. complete as per drawings, specifications and direction of Engineering-Charge. For following Brick Class.	280	cum	7,200.00	20,16,000.00
227	Providing 13mm thick average cement plaster in cement mortar 1:3 (1 cement: 3 sand) on brick walls/stone masonry/pitching or on concrete surfaces for manholes, valves pits, culverts, wing walls, etc. including cleaning and preparation of the surface, scaffolding, curing etc. for all depths and heights complete as per drawings specifications and direction of Engineer-in-Charge. All materials including cement supplied by the Contractor.	750	M2	650.00	4,87,500.00
228	**UNDERGROUND SEWER SYSTEM - RCC PIPES**				
229	Supplying and laying underground R.C.C. pipes sewers with socket and spigot ends conforming to IS:458 of approved make, to proper grade and alignment, including earthwork in excavation in all types of soil except soft and hard rock for pipe trenches, etc. including dewatering, shoring and shuttering if necessary, dressing of sides, leveling, grading and ramming of bottoms, cutting the R.C.C. pipes to required lengths, lowering the pipes, jointing, including connecting the pipes to manholes and grouting the pipe body with manhole wall using cement mortar 1:2 (1 cement : 2 sand), testing, draining of water and cleaning of pipe after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness , watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, including cutting of roads wherever required and making good the same, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit etc. complete for all depths as per drawings, specifications and instructions of Engineer-in-Charge.(All material shall be supplied by contractor) For following Pipe size (mm) and Class(The following pipe sizes are all internal diameter of the pipes)				
230	(Dia (Internal) - 100 mm, Piping Material Class - NP2)	15	M	600.00	9,000.00
231	(Dia (Internal) - 150 mm, Piping Material Class - NP1)	15	M	700.00	500.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
232	(Dia (Internal) - 450 mm, Piping Material Class - NP2)	70	M	1,200.00	84,000.00
233	**UNDERGROUND SEWER SYSTEM-HDPE PIPES**				
234	UNDERGROUND SEWER SYSTEM-HDPE PIPES :- Supplying and laying HDPE pipes conforming to IS:4984 of approved make to proper grade and alignment, including earthwork in excavation for trenches etc. in all types of soil except soft and hard rock including dewatering till completion of subsequent works, shoring and strutting, if necessary, dressing the sides, leveling, grading and ramming the bottom, jointing the pipes using hot plates as per manufacturer's recommendation, lowering, providing and laying 1:5:10 (1 cement : 5 sand : 10 aggregate) plain cement concrete of minimum 100mm thickness on bottom and side of pipe as directed, connecting the pipes to manholes and grouting the pipes to manhole/valve chamber walls, including supplying and fixing the specials and fittings, such as bends, reducers, tees, elbows, caps etc. conforming to IS:8008 or fabricated from pipes as per specification, supplying and fixing of flanges, fixing of online valves, including fixing of bolts, nuts and gaskets etc. as per specifications, testing, draining of water and cleaning of pipes after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness, watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit, cutting of road wherever required, making good the same etc. complete for all depths as per drawings, specification and instruction of Engineer-in- Charge. For the following nominal diameter (mm) Pressure Rating(Kg/Cm2). (Dia (Internal) - 80 mm, Pressure Rating - 2.5 Kg/sqcm)	50	M	2,500.00	1,25,000.00
235	**PLUMBING AND BUILDING DRAINAGE**				
236	Supplying and fixing approved quality Cast Iron soil/waste pipe conforming to IS:1729 below ground with necessary specials, bends such as Y-junction, T- junction (both single and double) including plugs, shoes, cowls, jointing with lead caulked joints and testing, cutting in floors, earth work in excavation, encasing the pipe in 50mm THK, PCC M20, backfilling and removal of surplus earth upto a lead of 50M etc. complete as per drawings, specifications and directions of Engineer-in-Complete				
237	100mm dia (All materials including cement supplied by contractor)	10	M	2,500.00	25,000.00
238	80mm dia (All materials including cement supplied by contractor)	10	M	2,000.00	20,000.00
239	**Supplying and fixing gun metal globe valve conforming to IS:778, complete as per specifications and directions of Engineer-in-Charge.**				
240	Dia - 50 mm	2	Nos	10,000.00	20,000.00
241	**Constructing of brick masonry valve chamber in 1:4 Cement mortar(1 cement: 4 sand) with CI frame & cover fixed on M-20 grade cement concrete , necessary excavation, M-20 grade foundation concrete, 13mm thick 1:3 cement plaster on inside & all exposed surfaces, backfilling, removal of surplus earth for all leads within the complex limit etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge. For following Valve size and Brick Class (All materials including Cement supplied by contractor)**				
242	Dia - 50 mm, Brick Class - 5)	2	EACH	2,50,000.00	5,00,000.00
243	Providing and fixing approved stone ware 100mmx100mm dia. gully trap as per tender specification, including grating with CI frame and cover 300mmx300mm including brick masonry (brick class shall be as mentioned below) chamber in 1:4 cement mortar(1 cement: 4 sand) on M-20 grade cement concrete foundation, plastered inside and outside surfaces with 1:3 cement mortar (1 cement: 3 sand) with 13mm average thickness including providing and fixing light duty CI frame and cover, painting CI frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat, earth work in excavation, backfilling, removal of surplus earth, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry etc. all complete as per drawings, specifications and directions of Engineer-in-Charge				
244	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	2,500.00	5,000.00
245	Construction as per(Design basis & general technical specification) of brick masonry (brick class shall be as mentioned below) inspection chambers/manholes of 750mmx750mm internal size 1000mm deep(Max.) in cement mortar 1:4 (1 cement: 4 sand) with CI frame and cover 500mm clear dia, (circular Medium duty of grade MD-10) conforming to IS:1726 fixed on RCC slab of M-30				
246	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	4,700.00	9,400.00
247	Construction, supplying, installation, testing and commissioning of septic tank as per standards and IS:2470 Part-I , with all necessary accessories like inlet, outlet vent pipes, manhole covers, rungs etc. including earthwork in excavation in all type of soil except soft and hard rock, backfilling and disposal of surplus earth for all leads etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

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248	All material including cement supplied by contractor for (Users - 10 NOS)	1	Nos	2,50,000.00	2,50,000.00
249	**MISCELLANEOUS ITEMS**				
250	Supplying and fixing in position entrance gate in complex boundary wall fencing manufactured out of steel frame work and square MS bars of 20 mm at 100 c/c and horizontal name plate band at lock rail level suitably hinged with box type steel post embedded in cement concrete i.e. providing the tension bar for smooth operation and locking arrangement etc. complete as per tender specification, including painting with two coats of anti-corrosive paint and two coats of approved aluminium/synthetic enamel paint etc. complete as per drawings, specifications and directions of Engineer-in-Charge.				
251	4.0M clear opening width of gate in two panels.	3	Nos	5,00,000.00	15,00,000.00
252	Supplying & Laying interlocking Paver Blocks for roads, footpaths and any other place etc. including providing 50 mm thick sand filling below Paver Blocks including compaction of sand layer, filling the joints by dry sand, providing precast kerb stone of PCC M-20 at edges, including preparation of compacted sub-grade etc. all complete as per drawing, standard and directions of Engineer-in-Charge. (All material including cement supplied by contractor, paver blocks shall confirm to IS: 15658. cloour and shape of paver block shall be as per owner requirements for following thickness of paver blocks				
253	**(Thickness - 60 mm)**	285	M3	2,650.00	7,55,250.00
254	Supply and installation on terrace, high density polyethylene drinking water circular tank as per IS:12701 and ISI marked including supply and installation of all fittings, cover with suitable locking arrangement, float valve, making necessary holes for inlet, outlet and overflow connection and vent pipe etc. and the base supports for tank including supply of all necessary material all complete as per specifications and directions of Engineer-in-charge. (Sintex or equivalent having valid ISI license) for following capacities.				
255	**capacity - 500 litre**	2	Nos	18,500.00	37,000.00
256	Supplying, installation, testing and commissioning of Upflow Anaerobic Filter with bleaching tank as per TE Std. Drawing with all necessary accessories like, Upstream inlet CI piping from septic tank, Downstream outlet RCC NP2 class piping up to surface storm water drains, CI pipes for filter chamber, CI valve, RCC pre-cast pit covers, steps, perforated pre-cast slabs etc., inlet chamber, Filter chamber, deluding chamber including earthwork in excavation in all type of soil including soft rock, backfilling with murrum or approved soil arranged by the contractor, disposal of surplus earth etc. complete as per drawings, specification and direction of Engineering-Charge (All materials including cement shall be supplied by the contractor, Brick Class lower than 5.0 shall not be used).	1	Nos	2,00,000.00	2,00,000.00
257	**DEMOLISHING AND DISMANTLING**				
258	**Brickwork**				
259	**Demolishing BRICKWORK** (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	250.00	2,500.00
260	**Demolishing BRICKWORK** (taking all necessary safety precautions) for all heights **above plinth level** including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	300.00	3,000.00
261	**RCC**				
262	**Demolishing RCC WORK** (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	2,000.00	20,000.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Corrtech Energy Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
263	**Demolishing RCC WORK** (taking all necessary safety precautions) for all heights **above plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	2,500.00	25,000.00
264	**PCC**				
265	**Demolishing PLAIN CEMENT CONCRETE** work (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc. disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation and backfilling shall be paid separately under relevant items)	10	cum	3,000.00	30,000.00
266	**MISCELLANEOUS ITEMS (REFER TE SPECIFICATION)**				
267	**Sand Filling**				
268	Supplying and filling approved SAND of specified quality under floors, in foundations, plinths, tank foundations etc. for all depths and heights including cost of sand,royalties,transportation to site for all leads and lifts, including loading, unloading, spreading in layers of loose thickness not exceeding 150 mm,watering,ramming,compacting with mechanical compactors and/or other equipment to the specified levels to achieve 85% relative density as per IS:2720 Part XIV,including preparation of subgrade to the required slope, providing testing apparatus and testing the degree of consolidation all complete as per drawings, specifications and direction of Engineer-in-charge. The rates shall be inclusive of the cost of all labour,material,equipments etc. all complete .	100	cum	2,850.00	2,85,000.00
269	**SAND GRAVEL MIX**				
270	Supplying and filling sand gravel mix (1:1) with approved aggregate below road, RCC pavement, manholes, pits, foundations, bedding of UG piping etc. in layers of 150 mm loose thickness (maximum) including watering, ramming, rolling, compacting to achieve 85% relative density as per IS 2720 Part-XIV, quarrying, royalties, transportation, handling, etc. all complete as per drawings, specifications and directions of Engineer-in- Charge. (The rate shall be inclusive of the cost of all labour, material, equipment etc. all complete)	105	cum	2,000.00	2,10,000.00
271	**GROUTING WITH NON-SHRINKABLE COMPOUND**				
272	Providing and laying manually or by pumping at all positions a ready mix non-shrink cementitious grout of compressive strength specified below for specified works e.g. pipe support, base grouting of rotating equipment and other installation complete in all respects as per scope of work, detailed construction drawings , technical specifications and directions of the Engineer-In-Charge.				
273	Having compressive strength of 30 N/mm2 , Per bag of 25 Kg	100	Bags	1,000.00	1,00,000.00
274	Having compressive strength 45 N/mm2 , Per bag of 25 Kg	20	Bags	1,200.00	24,000.00
275	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains, SS trench of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.	7.5	m2	8,500.00	63,750.00
276	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, leve and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	13.5	cum	8,000.00	1,08,000.00
277	Providing and fixing factory made precast RCC **perforated drain covers**, having concrete of strength not less than M-25, of size 1000x450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos. cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of the Engineer-In-Charge.	515	EACH	3,500.00	18,02,500.00
278	**Borewell and recharge well**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL**	**Rev.00** **Date-11.02.2022**
		Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**

M/s. Corrtech Energy Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
279	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job all complete as per drawing, direction of Engineer -in-charge, in all types of soil :	130	M	1,400.00	1,82,000.00
280	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge.	130	M	400.00	52,000.00
281	Providing and fixing Bail plug/ Bottom plug of required diameter to the bottom of pipe assembly of tubewell as per IS:2800 (Part-I). :150mm dia	3	EACH	5,000.00	15,000.00
282	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	4,000.00	20,000.00
283	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	3,500.00	17,500.00
284	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	3,200.00	16,000.00
285	Gravel packing in tubewell construction in accordance with IS:4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of the Engineer-In-Charge.	3	cum	3,000.00	9,000.00
286	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS:4270, of reputed & approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size dia having minimum wall thickness 5.00 mm	5	M	5,000.00	25,000.00
287	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	60	M	450.00	27,000.00
288	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/ 3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS:8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	25	M	500.00	12,500.00
289	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of 150 mm diameter	1	Nos	15,000.00	15,000.00
290	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS:2800 (Part-I), including necessary bolts & nuts of required size complete 150 mm diameter.	1	Nos	1,500.00	1,500.00
291	Supply, Installation and commissioning of 1.5HP Borwell Submersible Pump	1	EACH	65,000.00	65,000.00
292	Supply and Installation of 3Cx10Sqmm Copper Flat Cable	200	M	150.00	30,000.00
293	**LANDSCAPING**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Corrtech Energy Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
294	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment).	335	cum	850.00	2,84,750.00
295	Fine dressing of the ground.	1105	M2	120.00	1,32,600.00
296	Providing & laying Selection no. 1 grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden and than rolling the surface with light roller make the surface smoothen and light watering the same maintenance for 30 days or more till the grass establish properly,as per direction of officer in charge	1105	M2	300.00	3,31,500.00
297	Conducting topographical ground/land survey in the specified area as shown in the tender drawings by conventional/GPS or any other standard method, covering details of physical features like Rivers, Nallahs, Lakes, Ponds, wells, pits, Forest, Trees, Roads, culverts, transmission lines, telegraph/ telephone and electric poles, underground or any other services, cross drainage works including cross sectional details of nallah etc. including establishing high flood level with source of information, identification of any monument, historical structure, wild life sanctuary in the vicinity, storm water disposal point with levels, cross-section details of nallah, recording spot levels, top level of nearest state highway or National Highway, including providing in tabulation girth wise no. of trees etc as specified, plotting and developing topographical contour maps, showing true north including establishing survey reference stations, key plan etc. including all equipment's, instruments, personnel's, clearing of bushes as per requirement for intervisibility to carry out survey work etc. , complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of drawings/map and supply of electronic files. Note: Survey work shall be carried out by survey agency approved by Contractor and sample spot witness of levels cordinates by PMC, and shall be submitted to PMC/Owner for review.Survey drawing will be provided in A0 size with clear visibility of all the spots/levels/ contoure and Bench marks. Permanaet bench mark will be stabished at site in a 450x450 mm size 600mm high bick masonry piller.	4220	M2	50.00	2,11,000.00
298	**GEO TECHNICAL INVESTIGATION (Z/02/0022)**				
299	Conducting soil investigation with boring including all field tests and laboratory tests, mobilization and demobilization of equipments & personnel etc. for soil investigation for each borehole location. complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of Reports & recommendations and supply of electronic files.	5	Nos	2,50,000.00	12,50,000.00
300	**ANTI-TERMITE TREATMENT**				
301	Supplying chemical emulsion in sealed containers including delivery as specified in the Technical Specifications.				
302	Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	200	LITRE	350.00	70,000.00
303	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
304	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc. as per Techinal specifications and direction of engineering in charge: With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	80	METRE	200.00	16,000.00
305	Treatment of soil under floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the floor:				
306	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	250	SQM	480.00	1,20,000.00
307	Supply and installation 60mm dia GI pipe for column support of gate	15	M	1,500.00	22,500.00
308	Supply and installation 100mm dia MS pipe	15	M	1,000.00	15,000.00
309	Supply and installation 50mm dia MS pipe	15	M	700.00	10,500.00
310	Supply and installation of U-PVC pipes (working pressure 4 kg / cm²) Single socketed pipe 75 mm dia for weep holes	200	M	800.00	1,60,000.00
311	**Sub-Total Section C**				**450.00**

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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312	**SECTION-D [CATHODIC PROTECTION WORKS]**				
313	**CATHODIC PROTECTION SYSTEM**				
314	**Cathodic Protection system**				
315	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning & Monitoring of the temporary cathodic protection [TCP] system using galvanic anodes to protect the external surface of the pipeline against soil-side corrosion for minimum 2 year or till commissioning of permanent CP system whichever is later . All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard drawings and vendor list as attached with this tender and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	10,67,425.00	10,67,425.00
316	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning of permanent cathodic protection system for 40 years. The scope of work also includes post commssoning surveys and repair of coating/ rectification of cathodic protection system based on the post commissioning surveys. In additon to the same, AC Interference study on the pipelines to be performed and mitigation measures takes to the satisfaction of Owner/ CONSULTANT. All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard and vendor list attached and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	34,95,078.00	34,95,078.00
317	**Sub-Total Section D**				45,62,503.00
318	**SECTION-E [ELECTRICAL WORKS]**				
319	**ELECTRICAL**				
320	**SWITCH BOARDS / UPS SYSTEM/ PANEL**				
321	Supply , Installation, testing and commissioning of LT Switch-boards, AC UPS system with UPS Distribution board & Ni-Cd Battery banks , distribution boards, cubicles with electrical equipment, misc. electrical panels etc., including transportation from store/yard to site at the place of installation, unpacking, assembly, including mounting and wiring of loose parts supplied by equipment vendor, interconnection of shipping sections and requisite inter-panel wiring between shipping sections, including supply of all wiring materials, installation on foundations or fixing to wall or steel structures, aligning, levelling, grouting, including all labour and materials, as per approved drawings, specifications of this tender and directions of Engineer-in-Charge.				
322	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted MEDB	1	Nos	3,33,333.00	3,33,333.00
323	Supply , erection , termination , earthing and commissioning of wall mounted OLDB as per single line diagram of DT stations	1	Nos	1,11,111.00	1,11,111.00
324	Supply , erection , termination , earthing and commissioning of wall mounted ILDB as per Single line diagram of DT stations	1	Nos	55,556.00	55,556.00
325	Supply , erection , termination, earthing and commissioning of wall mounted SSDB as per Single line diagram of DT stations	1	Nos	55,556.00	55,556.00
326	Supply , erection , termination , earthing and commissioning of wall mounted AC DB as per Single line diagram of DT stations	1	Nos	77,778.00	77,778.00

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327	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 6 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of DT stations	1	SET	7,77,778.00	7,77,778.00
328	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for DT stations.	1	SET	8,88,889.00	8,88,889.00
329	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 1 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of RT stations	1	SET	2,22,222.00	2,22,222.00
330	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for RT stations.	1	SET	3,33,333.00	3,33,333.00
331	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted Emergency DB	1	Nos	2,50,000.00	2,50,000.00
332	Supply , erection , termination , earthing and commissioning of 32A, 4P, 25kA Auto Change-Over switch as per Single line diagram of DT station-JHARIA	1	Nos	45,000.00	45,000.00
333	**POWER AND CONTROL CABLE**				
334	Supply , laying , termination , erection and testing of 1.1 KV Power and control FRLS PVC Outersheath, XLPE insulated, armored Cables . Outdoor cable will be laid in buried cable trench and in Indoor cable will be laid in Cable trench by provision of Cable tray and supports inside the trench as per PTS - Electrical package P.017110 G 11077 E002				
335	3.5C x 95 sqmm AL FRLS XLPE	300	M	477.00	1,43,100.00
336	3.5C x 70 sqmm AL FRLS XLPE	300	M	361.00	1,08,300.00
337	3.5C x 50 sqmm AL FRLS XLPE	50	M	307.00	15,350.00
338	3.5C x 25 sqmm AL FRLS XLPE	100	M	196.00	19,600.00
339	4C x 16 sqmm CU FRLS XLPE	100	M	489.00	48,900.00
340	3C x 2.5 sqmm CU FRLS XLPE	170	M	82.00	13,940.00
341	3C x 6 sqmm CU FRLS XLPE	250	M	251.00	62,750.00
342	4C x 6 sqmm CU FRLS XLPE	350	M	348.00	1,21,800.00
343	2C x 6 sq.mm CU FRLS XLPE	100	M	86.00	8,600.00
344	2.5 sqmm Cu. Wire	1800	M	97.00	1,74,600.00
345	6 sqmm Cu. Wire	600	M	323.00	1,93,800.00
346	**Earthing & Lightning**				

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347	Supply , Installation , testing and comissioning of GI Earth electrodes & Cu plate type earth pit complete with earth pit as per IS 3043, PTS-Electrical package and all necessary material including exacavation of earth pit , filling with charcol and salt , back filling, brick work , connections including all labour and materials as approved drawing and specification of this tender and direction of Engineer-In charge.				
348	GI Earth Electrodes				
349	65mm dia x 3000 mm L GI pipe electrode type Earth pit	17	Nos	16,667.00	2,83,339.00
350	**Cu plate Earth Electrode**				
351	600x600x3mm Cu plate type Earth pit	8	Nos	20,000.00	1,60,000.00
352	**Earth strip and wire**				
353	50x 6 mm GI Flat strip	850	M	389.00	3,30,650.00
354	25 x 6 mm Cu Flat strip	50	M	889.00	44,450.00
355	2.5 Sqmm Cu wire	250	M	356.00	89,000.00
356	25 x 6 mm GI Flat strip	200	M	778.00	1,55,600.00
357	10 Sq.mm earthing cable	250	M	278.00	69,500.00
358	GI Earth Bus 50x 6 Sq.mm with all installation assesories	3	Nos	5,000.00	15,000.00
359	Cu. Earth Bus 50x 6 Sq.mm with all installation assesories (in control room)	4	Nos	6,111.00	24,444.00
360	25x3 mm GI Flat for Lightning as well as down conductors for DT station as per overall earthing layout and GGNG-E-20713-3007	80	M	500.00	40,000.00
361	Other lightning assesories like 20mm dia copper rod, hollosphere ,200x200x6mm ms plate ,anchor/fastner ,test links for DT station as per overall earthing layout and GGNG-E-20713-3007	1	LOT	27,778.00	27,778.00
362	**OUTDOOR Lighting**				
363	Supply , erection , Testing & commissioning of Outdoor area lighting system including with supply of flameproof / weather proof light fixture , pole , junction box and earthing including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender & Overall outdoor lighting layout of DT & RT station and directions of Engineer- In charge.				
364	100W FLP LED Fixture & FLP Junction box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	4	Nos	24,444.00	97,776.00
365	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	2	Nos	1,72,222.00	3,44,444.00
366	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in RT Stations.	7	Nos	1,72,222.00	12,05,554.00
367	1x160W FLOOD LED Fixture with weather proof junction box & 9 mtr high pole with all assesories for open area	6	Nos	34,444.00	564.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Corrtech Energy Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
368	1x70 W Solar type Street LED Fixture with weather proof junction box, VRLA Battery (72 hrs backup time) & 9 mtr high pole for street lighting	4	Nos	1,38,889.00	5,55,556.00
369	1x27 W Post Top Lantran LED Fixture for Gate with weather proof junction box for Gate lamp	2	Nos	9,444.00	18,888.00
370	1x36 W LED industrial fixture suitable to building parapet /wall with all assesories like weather proof junction box/clamp/reducer/	2	Nos	10,556.00	21,112.00
371	**INDOOR Lighting**				
372	Supply, erection, Testing & commissioning of Indoor building area lighting system including with supply of light fixture, point wiring including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender and directions of Engineer- In charge.				
373	2x20 W LED recessed decorative fixture for control room	5	Nos	5,000.00	25,000.00
374	2x20W LED Industrial Fixture for Electrical room	2	Nos	4,444.00	8,888.00
375	1x40W LED Flameproof Fixture for Battery room	1	Nos	23,333.00	23,333.00
376	2x18W LED Industrial Fixture for Varanda/Toilet/ water cooler area/ Guard room	6	Nos	3,556.00	21,336.00
377	1x36W LED Industrial Fixture	4	Nos	3,000.00	12,000.00
378	2x20 W LED recessed decorative fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) control room.	2	Nos	25000	50,000.00
379	2x20W LED Industrial Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Electrical room	2	Nos	25,000.00	50,000.00
380	1x40W LED Flameproof Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Battery room	1	Nos	35,333.00	35,333.00
381	**Switch socket**				
382	Supply and Installation of single/ three phase Switch socket as per Indoor Illumination layout for DT & RT and PTS-Electrical Package and directions of Engineer-In Charge				
383	5/15A surface type switch socket (1 Ph)	7	Nos	2,556.00	17,892.00
384	5A flush type switch socket (1 Ph)	4	Nos	2,333.00	9,332.00
385	16A Switch socket (I Ph)	3	Nos	2,222.00	6,666.00
386	20A Switch socket for AC (1 Ph)	4	Nos	3,000.00	12,000.00
387	Flame proof Junction box for Exhaust fan in Battery room	2	Nos	5,000.00	10,000.00
388	32A Switch socket for welding receptacles (3 Ph)	1	Nos	10,556.00	556.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Corrtech Energy Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
389	Modular switch board	12	Nos	1,667.00	20,004.00
390	**FANS and Exhaust FAN**				
391	Supply ,Installation and testing of Ceiling Fan and Exhaust fan with louvers including all labours and materials as per Indoor Illumination layout for DT and PTS-Electrical Package and directions of Engineer-In Charge				
392	Ceiling Fan 230V AC 1200 mm sweep	3	Nos	2,889.00	8,667.00
393	450 mm FLP Exhaust Fan for Battery room	2	Nos	20,000.00	40,000.00
394	200 mm Exhaust Fan for Toilet	1	Nos	2,222.00	2,222.00
395	300 mm Exhaust Fan for Electrical room/ CO2 room	3	Nos	5,000.00	15,000.00
396	**Air conditioning unit**				
397	Supply ,Installation and testing of Five star 1.5 Ton Split AC with outdoor compressor unit including all labours and materials as per Typical Indoor Illumination layout for DT and directions of Engineer-In Charge				
398	Split Air condition Five star 1.5 Ton	4	Nos	61,111.00	2,44,444.00
399	**Hardware and other Accessories**				
400	Supply and Installation of Hardware and other accessories including all labours and materials as per Tender specification PTS-Electrical Package P.017110 G 11077 E002 and directions of Engineer-In Charge				
401	Rubber mat	15	M	2,778.00	41,670.00
402	Rubber hand gloves	1	PAIR	1,667.00	1,667.00
403	Warning Marker	1	Nos	1,667.00	1,667.00
404	PVC Conduit with bend ,tee and other required assesories	1	LOT	55,556.00	55,556.00
405	CAUTION Board & Sock treatment chart	1	Nos	2,778.00	2,778.00
406	Cable route marker as per Standard drawing TE-IN-STD-G-0327	1	LS	44,444.00	44,444.00
407	Fire extingusher and SAND Bucket with Stand	1	SET	72,222.00	72,222.00
408	Ladder type Cable tray - hot dip Galvanized Prefabricated 450 mm wide	55	MTR.	1,056.00	58,080.00
409	Perforated type Cable tray hot dip Galvanized Prefabricated 450 mm wide	35	MTR.	1,944.00	68,040.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Corrtech Energy Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
410	Cable Glands				
411	Cable Glands : Flame proof IIA/IIB double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
412	Cables with upto OD 20 mm & above OD 20 mm as per Single line diagram of DT & RT station	1	LOT	88,889.00	88,889.00
413	Cable Glands : Weather proof double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
414	Cables with upto OD 20 mm to 40 mm as per Single line diagram of DT & RT station	1	LOT	96,667.00	96,667.00
415	**Sub-Total Section E**				**89,05,404.00**
416	**SECTION-F [INSTRUMENTATION WORKS]**				
417	**INSTRUMENTATION**				
418	**SUPPLY**				
419	Supply of Pressure Transmitter along with 2 valve manifolds with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	57,778.00	2,88,890.00
420	Supply of Pressure gauge including high range along with 2 valve manifolds with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	18	Nos	6,111.00	1,09,998.00
421	Supply of Pressure gauge including Low Range along with 2 valve manifolds, gauge saver with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	3	Nos	5,000.00	15,000.00
422	Supply of temperature element (RTD) along with flanged thermowell mounted for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	27,778.00	1,38,890.00
423	Supply of Temperature Transmitter with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	7	Nos	68,889.00	4,82,223.00
424	Supply of skin type temperature element (RTD) for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I003), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	2	Nos	30,000.00	60,000.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Corrtech Energy Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
425	Supply of Local control panel with all accessories as per Data sheet (P.017110 G 11087 I011), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, SAT of local control panel,supports/ frame fabrication, earthing and screwing plug for unused entries, painting and integration with RTU. Termination of all Other panel SCADA hard wired signal including RS-485 signals through LCP for RTU/SCADA by Bidder. 1. Digital Barriers 2. Analog Barries 3. Relays 4. three poisition selector switch 5. LED indication lamps 6. Push buttons 7. terminal blocks 8. internal wiring 9. MCBs 10. Door switches 11. cooling Fan 12. LED lights	2	Nos	2,77,778.00	5,55,556.00
426	Supply of Ex-proof junction box with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, iincluding Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.	4	Nos	20,000.00	80,000.00
427	Supply of Corrosion Monitoring system with corrosion coupon, Corrosion probe, transmitter and digital indicator (mounted in LCP) as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
428	Corrosion coupon along with accessories.	2	Nos	6,00,000.00	12,00,000.00
429	Corrosion probe along with transmitter, digital indicator, barriers and accessories.	2	Nos	9,00,000.00	18,00,000.00
430	Supply of Conventional Type Microprocessor based fire detection system along with smoke detector, heat detector, cabinet, manual call point, Independent 24 Hrs battery backup with 15 min in alarm state, repeater panel and Electrical Operated Siren, exit signs and cables fromsensor ,MCP, siren, hooter to controller as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
431	Controller along with cabinet along with cabling	1	Nos	1,33,333.00	1,33,333.00
432	Multisensor (smoke & heat)	10	Nos	5,000.00	50,000.00
433	WP IP 65 Manual call points	6	Nos	4,444.00	26,664.00
434	Ex Proof and WP IP 65 Manual call point	1	Nos	19,444.00	19,444.00
435	WP Hooter & Flasher	1	Nos	4,222.00	4,222.00
436	Repeater panel	1	Nos	57,778.00	57,778.00
437	Exist sign	6	Nos	6,222.00	37,332.00
438	Electrical siren Exd	1	Nos	27,778.00	778.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Corrtech Energy Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
439	24 Hrs battery backup	1	Nos	27,778.00	27,778.00
440	Supply of Conventional type gas detection system along with controller, ex proof point gas detectors, beacon hooter, flasher, , cabinet, portable gas detector, calibration kit, alignment kit as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
441	Controller with cabinet	1	Nos	1,16,667.00	1,16,667.00
442	Point gas detectors	12	Nos	1,83,333.00	21,99,996.00
443	Panel Mounted hooter	2	Nos	3,889.00	7,778.00
444	Dual tone Hooter & Beacon Ex"d" with reset push button	2	Nos	10,889.00	21,778.00
445	Portable gas detecotrs	1	Nos	53,333.00	53,333.00
446	Calibration kit	1	Nos	1,27,778.00	1,27,778.00
447	Ex d Junction Box	2	Nos	21,111.00	42,222.00
448	Supply of Universal type Hand Held Configurators for transmitters with carrying case, rechargeable batteries (one working and one standby), and battery charger as per Data sheet,PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work	1	Nos	1,57,778.00	1,57,778.00
449	Supply of Instrumentation signal cable, control cable, communication cable/LAN cable, Power cables along with all sizes cable glands (WP & Exd), PVC hood, lug, ferrule, etc including Cable laying (buried as well as tray) along with termination, glanding, meggering and loop checking including supply of ferrule, lugs, cable tie, cable clamp, cable marker etc. as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.				
450	1Px 1.5mm2	500	MTRS.	180.00	90,000.00
451	12Px 0.5mm2	900	MTRS.	394.00	3,54,600.00
452	1Qx1.5mm2	30	MTRS.	94.00	2,820.00
453	12Tx1.5mm2	200	MTRS.	567.00	1,13,400.00
454	1Tx1.5mm2	180	MTRS.	39.00	7,020.00
455	6Px0.5mm2	200	MTRS.	211.00	42,200.00
456	2Px1.5mm2	200	MTRS.	244.00	48,800.00
457	Cat 5 (LAN)	160	MTRS.	2,222.00	3,55,520.00
458	3C x 2.5mm2	240	MTRS.	344.00	82,560.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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459	Supply & laying of Instruments cable tray with tray cover (Branch Cable tray (50mm x 50mm), Main cable tray 900 mm, cable tray 300mm, cable tray 150 mm.) as per requirement, instruments/ PGD, CCTV/ mounting poles, instrument protection sun sheds, angles, channels, MS plates & all the erection materials and as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including installation of support, cable clamping, installation of tray cover and support painting.	1	LS	3,88,889.00	3,88,889.00
460	Supply , installation & laying of tubes and fittings as per requirement and as per PTS-Instrumentation with appendices and Scope of Work C&I. SS 316L TEE (1/2", Class 3000#, Screwed, NPTF, Seamless) ,SS316L GLOBE/BALL VALVE (1/2", Class 800#, Screwed, NPTF, Seamless), SS316L PLUG (1/2", Screwed, NPTM, Hex head, class 3000#), SS316L PIPE NIPPLE (½" NPTM, seamless, schedule #160) Length of the pipe nipple as per requirement, SS316L MALE CONNECTOR (1/2" OD x 1/2" NPTM), SS316L FEMALE CONNECTOR (1/2"OD x 1/2" NPTF), SS316L UNION (1/2" OD), SS316L TUBE (1/2" OD x 0.065" WT), SS316L TUBE (1/4" OD x 0.035" WT)	1	LS	2,66,667.00	2,66,667.00
461	Supply of mandatory spares as per Mandatory Spare (P.017110 G 11075 I001)	1	LS	6,11,111.00	6,11,111.00
462	AT Jharia - Installation of metering skids, metering cabinet under the supervision of skid supplier, cable laying and terminal of cable from skid junction box to metering system cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	1,66,667.00	1,66,667.00
463	At Jharia Installation of gas chromatograph skid, analyser & controller cabinet under the supervision of skid supplier, cable laying and terminal of cable from analyser cabinet to controller cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	1,33,333.00	1,33,333.00
464	At Jharia Installation of H2S & Moisture analyser skids, cabinet under the supervision of skid supplier, laying and terminal of cable from skid field mounted cabinet to LCP/RTU. Including supply of all the required erection, fabrication and civil materials.	1	LS	1,33,333.00	1,33,333.00
465	At SV 28 Spare Input output available in existing RTU, internal wiring at site, field connection, configuration and commissioning., interfacing with LCP and configuration of new parameters in existing RTU, as per Scope of Work.	1	LS	1,33,333.00	1,33,333.00
466	**Sub-Total Section F**				**1,07,72,469.00**
467	**SECTION-G [TELECOM WORKS]**				
468	Supply Telecommunication system, SDH equipment STM-4 Based SDH Cabinet of (2000H x 800W x 800W along with 100 mm base frame) as per below configuration: - 2*STM-4 + 2*STM-1 + 8FE ports as per PTS-Telecommunication system (P.017110 G 11077 I002), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including erection, testing, integration with existing NMS at Noida, Commissioning and integration with existing telecom system at SV 28 additional SFP of L4.2 for SV 28 connectivity	1	Nos	3,61,111.00	3,61,111.00
469	Supply of CCTV-IP based Fixed colour camera and PTZ colour camera along with power cable, communication cable at each station as per PTS-Telecommunication system (P.017110 G 11077 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work., including erection, testing, integration with existing VMS at Noida, Commissioning and integration with existing telecom system at SV 28				
470	Fixed Camera WP IP65	1	Nos	27,778.00	27,778.00
471	PTZ camera WP IP65	1	Nos	83,333.00	83,333.00
472	Supply of one Analog phones control room, one number in guard room and one number WP IP66 in field safe area as per PTS-Telecommunication system (P.017110 G 11077 I002) , PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work				
472	Analog Phone	2	Nos	11,112.00	224.00

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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474	Analog Phone Ex Proof WP IP 65	1	Nos	8,889.00	8,889.00
475	FXO cards	1	Nos	10,000.00	10,000.00
476	FXS	1	Nos	50,000.00	50,000.00
477	Five pair armoured telephone cable, size 0.5mm2	100	MTR.	2,800.00	2,80,000.00
478	AT Jharia- Free issue RTU by GAIL: Transportation from Gail store to site location, installation, cabling from LCP to RTU, commissioning etc. Erection, installation of RTU inside the station control room including supply of all the required erection materials, fabrication and civil works	1	LS	72,222.00	72,222.00
479	At SV 28 Spare Input output available in existing RTU, internal wiring at site, field connection, configuration and commissioning., interfacing with LCP , cable laying from LCP to RTU, and configuration of new parameters in existing RTU, as per Scope of Work.	1	LS	72,222.00	72,222.00
480	**Sub-Total Section G**				**9,87,779.00**
	Total of Section A + B + C + D + E + F + G				**13,52,98,794.00**
479	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Total of Section A + B + C + D + E + F + G above	18	percentage	18	2,43,53,782.92
480	Rate of Extended Stay Compensation per month beyond the time schedule and grace period mentioned in Bidding document for reasons solely attribute to Owner (exclusive of GST) Notes:- 1;- Extended Stay Compensation shall be loaded on the quoted price as per evaluation methodology. 2;- In case, no rate for extended stay compensation is stipulated, it will be considered that extended stay compensation is not required by the Bidder and the rates quoted by them shall be valid till completion of works in all respects.	1	Nos	10,00,000.00	10,00,000.00
481	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Extended Stay Compensation at Sl. No. 480 above	18	percentage	18.00	1,80,000.00
	Grand Total				16,08,32,576.92

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Enprocon Enterprise Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
				UNIT RATE	TOTAL RATE
1	**SECTION-A (MAIN LINE WORKS)**				
2	**CH.0.00 KM to CH.5.667 KM**				
3	**MAINLINE, PIPING AND MECHANICAL**				
4	PIPELINE LAYING / INSTALLATION Laying/ installation of coated line pipe, associated fittings and accessories, etc. as per specifications, drawings, other provisions of Contract and instructions of Engineer-in-Charge, including but not limited to carrying out the following: "Receiving and taking-over", handling, loading, transportation and unloading of Owner supplied coated and bare line pipes and other Free Issue Materials from Contractor's own stock-yard to Work site including stringing on the pipeline Right-of-Use (ROU), Arrangement of all additional land required for Contractor's storage, Performing the additional survey wherein survey data is not sufficient in the opinion of Contractor, arrangement of working RoU if RoU width is not sufficient for equipment/ vehicle movement etc., access for construction (other than Owner provided ROU; Developing necessary access way to the worksite, including earth filling, levelling, etc.; supply of all materials (except Owner supplied materials), supply of all materials, consumables, equipment, labour, etc.; fabrication, Staking and installation of construction markers, clearing, grubbing, grading (as required) of Right of Use; clearing and grading of ROU; Cutting/ uprooting of shrubs, plants, vegetation within ROU; , Trenching to all depths and to a width to accommodate the pipeline with optical fiber cable (inside HDPE Duct) by excavation in all types of soil (in case of hard rock, additional payment for hard rock breaking will be paid as per separate SOR line item), including additional trenching for seismic and other areas as specified,(Rate for laying of optical fibre cable and HDPE Duct not be included here and same to be quoted against separate SOR item); Carrying out repairs of pipe and coating defects not attributable to Owner; Thorough internal cleaning of all pipes by suitable methods to remove debris, shots, grits etc.; Stringing of line pipes along ROU including providing straw bags, soft padding/sand padding; Aligning, cold field bending, cutting and beveling (as required) of pipes for welding and field adjustments, NDT & NDT of re-beveled area, welding, carrying out destructive & non- destructive testing of welds required as per approved NDT specifications (including radiography) and providing all requisite equipment, labour, supervision, materials, films, consumables etc.; carrying out repairs of weld joints as required, carrying out re- radiography and other non-destructive tests on repaired joints, etc.; Installation of carrier pipe including concrete coated pipes (wherever required).				
5	(Concrete Coating on pipes, covered separately) at all crossings including roads/ canals/ nala/ water crossings etc. (supply and installation of casing pipe by open cut or by Jacking/ boaring method covered separately) including pre-testing as required; Carrying out installation of carrier pipe in the casing pipe at cased crossings; Coating of all field weld joints, long radius bends (fabrication of Cold field bends covered here and fabrication of 6D bends by induction heating covered separately), buried fittings etc.; Supply & Installation of warning tape along the entire length of Pipeline including Crossing. Lowering the pipelines in trench, providing required padding over and around the pipeline with sand/graded material (in rocky areas), backfilling with available approved excavated material and/or other suitable soil (supply and providing of soft soil for pre & post padding in Rocky area); Supply and installation of slope breaker as per specifications and drawings in steep slope areas, wherever required; Carrying out hydrostatic testing including air cleaning, flushing, filling, gauging, pressurization of complete pipeline in various test sections as approved by Engineer-In-Charge to the specified test pressure, providing all equipment, pumps, fittings, instruments, dead weight tester, all types of pigs etc., and services, supervision, labour, consumables, arranging water required for hydrostatic testing including supply of corrosion inhibitor, air, etc. as required, locating of leaks and rectification of defects attributable to Contractor, re-testing after rectification, successful completion of hydro-testing of pipeline (De-watering covered else where in the SOR); including all tie-in(s) with the pipeline/ piping installed by others including cutting of test header, re- beveling as required; Carrying out all temporary, ancillary, auxiliary works and all incidental works required to make the pipeline ready for pre- commissioning; Carrying out EGP for the entire stretch of completed pipeline, Repair of defects recorded during EGP/gauge plate run or otherwise including cutting, beveling, welding, NDT, field joint coating etc.; as applicable, Final clean-up and restoration of right of use including obtaining NOC from respective statutory authorities as required and disposal of debris and returning all surplus material to designated disposal areas/storage yard, as directed by Engineer-In-Charge; Restoration of land, facilities and boundary wall etc. at associated facilities dismantled/damaged by the Contractor during construction; Obtaining work permits/ NOC from various statutory authorities having jurisdiction and complying with all stipulation/conditions/recommendation of the said authorities; Preparation of as-built drawings, pipe-book and other records. SOR shall be read in conjunction with Project drawings, scope of work, specifications, standards and other provisions of contract document. The work includes the Survey data & site preparation, Stringing/Chainges in direction, Beveling of pipe element, Welding Procedure Qualification & Welders Qualification, Welding of pipe element, Inspection & testing of production welds, Field joint coating, controlled blasting, chiseling, etc., Material hand over & material handling, Lowering-in & ballasting, All crossings except HDD as mentioned in Crossing List (including installation of carrier pipe inside the Casing at cased crossing) Backfilling (for all depths in all types of soil, soft /hard rock), including trench padding with sand, graded earth in rocky areas & rock shield(if required as per specs) reinstatement				
6	All above works shall be executed in accordance with scope of work, GTS, PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. 1. Supply and Installation of OFC and HDPE Ducts along the entire pipeline route, adjacent to the new pipeline, along with all required accessories, fittings and associated items, is covered separately in the SOR. All above works for buried pipeline (including hook-up pipeline from Tap Off Point inside ONGC GCS, Jharia upto proposed plot for GAIL DT), as per following details :				
7	ND 8", API5L X60 - 6.4 mm	4250	M	2,400.00	1,02,00,000.00
8	ND 8", API5L X60 - 7.1 mm	1588	M	2,450.00	38,80,500.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Enprocon Enterprise Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
9	Concrete slabs (Mechanical Protection) as per technical specifications Supply, fabrication and installation of reinforced concrete weights. Reinforced steel size should be 8 mm. top and bottom at a rate of 200 mm c/c of precasted RCC 1:2:4 on pipeline of wall thickness of 75 mm thick and size as per specifications & Standard drawings and instructions of Owner/ Owner's representative including supply of consumables, materials, equipment, labor, supervision, all associated civil works.	110	M	2,200.00	2,42,000.00
10	Continuous Concrete Coating Supply of all consumables and materials, equipments, manpower, submission of application procedure with calculations for anti-buoyancy, design mix procedure qualification and application of continuous concrete weight coating thickness mentioned below (higher also, in case design requirements) on pipeline of all thickness, concrete weight coating of the field joints thereof, and performing all works as per specifications and instructions of Owner/Owner's representative and other provisions of CONTRACT DOCUMENT.				
11	25 mm thick	12	M	2,000.00	24,000.00
12	30 mm thick	12	M	2,500.00	30,000.00
13	GEO TEXTILE BAGS FOR ANTI-BUOYANCY				
14	Additional works over and above item no. 4 to 8 for design, manufacture and supply of Non-biodegradable geo-textile bags and installation of geo-textile bags duly filled with gravel/ stone ballast on pipelines of all wall thicknesses for anti-buoyancy, drawings, scope of work and instructions of Engineer-in-Charge and other provisions of the Contract document.				
15	ND 8" (for all thicknesses)	12	M	1,560.00	18,720.00
16	Permanent Markers Supply, fabrication and installation of following types of permanent markers along the pipeline route including all associated civil works such as excavation in all types of soil, construction of pedestals and grouting with concrete, clearing, supply & application of approved color and quality of primer and paint, stencil letter cutting for numbers, direction, chainage, etc. restoration of area to original condition and performing all works as per drawings, specifications and instruction of Owner/Owner's Representative.				
17	Pipeline Warning Signs	14	Nos	9,500.00	1,33,000.00
18	Right-of-way boundary markers	22	Nos	1,900.00	41,800.00
19	Kilometer Markers	4	Nos	9,500.00	38,000.00
20	Aerial Markers	1	Nos	9,500.00	9,500.00
21	Directional Markers	69	Nos	9,500.00	6,55,500.00
22	Repair of Defects in Pipe Coating (Attributable to OWNER)				
23	Repair of Line Pipe Coating: Supply of all coating repair materials as per the requirements of the relevant specifications, supply of all consumables, utilities, equipment, and all manpower required, pipe cleaning and surface preparation, repairing of coating defects (resulting in holiday in coating) and testing including all handling, transportation, etc. for line pipes, performing all works necessary for the completion of the works strictly in accordance with the relevant specifications and instructions of OWNER.				
24	Repair of Holidays in Coating	20	Nos	1,500.00	30,000.00
25	Repair of Cosmetic Defects in Coating: Description of same as in item no 23 above, but for repair of cosmetic defects in coating.	30	m3	1,200.00	36,000.00
26	**Repair of Defects in Line Pipes**				
27	Repair of OWNER supplied pipes of all wall thicknesses, recorded at the time of taking-over by CONTRACTOR at all places of work.				
28	Cutting and rebevelling	15	Nos	12,000.00	1,80,000.00
29	Jack out method	15	Nos	12,000.00	1,80,000.00

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M/s. Enprocon Enterprise Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
30	All works for locating burst (occurred during hydrostatic testing and tightness test attributable to Owner issued materials) including detecting burst, necessary repairing/replacing defective pipe lengths, including cutting out and removing the defective pipe, pretesting the replacement pipe, welding of replacement pipe into mainline and NDT of welding, repair and re-testing of defective welds, coating of welded joints, cleanup, retesting including providing all labor, materials, consumables and inputs other than OWNER supplied materials and performing all works as per drawings, specifications and directions of Owner/ Owner's representative. In case of pinhole leaks not easily detectable all works for locating leak (occurred during mechanical resistance test and tightness test attributable to Owner issued materials) including detecting leak, The Payment will be made as per actual efforts and based on Equipment and manpower Rate provided in SCC . Further replacement & retesting will be paid as above.	2	Per burst	40,000.00	80,000.00
31	LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER) (FOR TERMINAL PIPING) LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER DUE TO FIM) All works for leak/burst (occurring during hydrostatic testing) by necessary repair/replacement of defective pipe length, including cutting and removing out defective pipes, welding, NDT of welds, repair and re-testing of defective welds, painting of welded joints, clean-up, re hydro testing of the pipe segment including providing all necessary equipment, labour, materials, consumables and inputs other than Owner supplied materials and performing all works as per drawings, scope of work, specifications, standards enclosed with the Contract and directions of Engineer-in-Charge. Note: 1. This rate shall be applicable for manufacturing defects in Company supplied materials only.	6	Inch-meter	2,000.00	12,000.00
32	IDLE TIME PRESERVATION OF PIPELINE Preservation of complete pipeline and associated facilities and its maintenance including supply of all consumables, all equipment, man- power, etc., complete as per the requirements of specifications, scope of work, standards, other provisions of Contract document and instructions of Engineer-in- Charge. By filling and pressurizing with nitrogen including supply and maintenance of nitrogen as per following details:				
33	Pipe OD - 8 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - 3 MONTH	6030	M	14.00	84,420.00
34	Pipe OD - 8 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - FOR EVERY ADDITIONAL MONTH BEYOND INITIAL 3 MONTHS	6030	M	6.00	36,180.00
35	**PRE-COMMISSIONING FOR NATURAL GAS PIPELINES SYSTEM, Carrying out pre-commissioning activities and pre-commissioning checks to the specified acceptance criteria, making the entire pipeline system ready for commissioning (It includes cleaning including magnetic cleaning, Electrical Geometrical Pigging survey, dewatering, swabbing,, pre-drying activity, Golden-tie ins connecting the stations),, supply of all equipment, man-power, consumables, including all type of pigs and required quantity of nitrogen, materials for all temporary works and performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.**				
36	Pipe OD - 8 INCH	6030	M	12.00	72,360.00
37	**Commissioning Assistance**				
38	OVERALL COMMISSIONING OF ENTIRE PIPELINE SYSTEM Overall commissioning including system checks, inertisation (as required) and charging of entire pipeline system, including all stations and all associated facilities including notifying the Company that the pipeline system is ready for commissioning; Review of status jointly with the Company and obtaining final clearance for start of commissioning; Development and submission of commissioning procedures, obtaining Company approval thereupon, carrying out overall commissioning of the total pipeline system including all facilities and all necessary coordination/ liaison with other Contractor(s) operations; Carrying out commissioning; Supply of all equipment like Nitrogen vapourisers (as required), along with all piping and instruments, temporary venting/ flaring/draining facilities as applicable, man-power, consumables including pigs and required quantity of Nitrogen (as required); Performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.				
39	Pipe OD - 8 INCH	6030	M	15.00	90,450.00
40	PIPELINE INFORMATION MANAGEMENT SYSTEM Providing pipeline information management system using web based software for monitoring pipeline construction progress and providing all "As Built" data & drawings for entire length of pipeline as per specifications enclosed with the tender document.	1	LS	9,50,000.00	9,50,000.00
41	VIDEO FILM & PHOTOGRAPHY OF CONSTRUCTION ACTIVITIES Preparation of high resolution video films with audio commentary and Industrial photography covering all aspects/activities of pipeline construction annotated as required, conversion of same to video DVD/Blue Ray format, submitting three (3) sets of the same as per details in scope of work document	1	LS	1,00,000.00	1,00,000.00
	FABRICATION OF LR BENDS :				

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43	Fabrication of 6D bend / LR (Induction) bends as per the relevant standard & Specification attached with the tender document from free issue linepipes (mother pipe) including but not limited to the following: "Receiving and taking over of free issue linepipes" from GAIL Dump Yard location as mentioned in Scope of Work, carrying out inspection of line pipe at the time of receive taking over in the presence of Company representative, carrying out repair of pipe defects attributable to Contractor after taking over, including supply of consumables & equipments; handling, hauling, transportation and loading/unloading required to transport the mother pipes between place of issue, LR bend fabricator/ manufacturer, intermediate storage as required, and final delivery of fabricated LR Bends to the worksite(s), as per requirement, Manufacturing/ fabricating of LR Bends, as per project requirements and Specifications. LR bends exact angle(s) shall be as per pipeline alignment. Note:- 1. Rate for repairing of defects in linepipes identified and recorded at the time of receiving & taking over i.e. defects attributable to Company shall be quoted separately in the applicable items of the SOR. 2.Loading of Pipe into installation contractor trailer shall be carried out by the GAIL Dumpyard maintenance agency already engaged by the Company.				
44	Bare Pipe ND 8", API5L X60 - 6.4mm	8	Nos	30,000.00	2,40,000.00
45	Bare Pipe ND 8", API5L X60 -7.1 mm	15	Nos	35,000.00	5,25,000.00
46	**SUPPLY AND INSTALLATION OF CASING PIPE & 6 INCH CS CONDUIT:** Supply and installation of casing pipe and 6 inch CS conduit for OFC by jacking / boring or open cut for rail, road or canal crossings wherever required in all types of soils and terrain separately for carrier pipes and fibre optic cable inside HDPE duct, supply of casing pipes and all other Contractor supplied materials viz. casing insulators and casing end seals as per enclosed drawing, materials for casing vents and drains, etc. including transportation, supply of all other materials, equipments, consumables, man-power, welding including visual inspection of all weld joints, installation of casing insulators, end seals, vents and drain-off pipes, backfilling and restoration as original of the facility crossed and performing all works as per drawings, specifications including PTS and GTS and instructions of Engineer-in Charge and provisions of Contract document.				
47	Supply and installation of Casing pipe by Boring / Jacking as per item no. 46 (Railway crossing) Casing Pipe Details: (Pipe 14" , 8.7 mm Thick, API 5L GR.B)	200	M	28,000.00	56,00,000.00
48	Supply and installation of Casing pipe by Boring / Jacking as per item no. 46 (Other than Railway Crossings) Casing Pipe Details: (Pipe 14" , 6.4 mm Thick, API 5L GR.B)	12	M	9,500.00	1,14,000.00
49	Supply and installation of 6 inch CS Conduit by Boring/Jacking as per item no. 46 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	200	M	21,000.00	42,00,000.00
50	Supply and installation of Casing pipe by open cut as per item no. 46 Casing Pipe Details: (Pipe 14" , 6.4 mm Thick, API 5L GR.B)	12	M	7,000.00	84,000.00
51	Supply and installation of 6 inch CS Conduit by open cut as per item no. 46 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	12	M	15,000.00	1,80,000.00
52	**HDD CROSSING**				

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53	**Generalities**				
54	Topographic / Bathymetry, Geotech Investigation and Hydrological data collection				
55	Site preparation				
56	Design & stress calculations as per requirement				
57	Material hand-over and material handling				
58	Site reinstatement				
59	Final dossier including all notes & calculations as required in the specification				
60	***Installation of 6 inch CS Conduit***				
61	Teletransmission--Separate Drilling for 6 inch CS Conduit for OFC installation				
62	Installation of HDPE duct & OFC cable inside 6 inch CS conduit				
63	Drilling & Pulling of 6 inch CS Conduit shall be done before mainline HDD.				
64	***Pipeline string***				
65	Beveling & welding				
66	Inspection & testing of welds				
67	Field joint coating				
68	Temporary support (roller)				
69	Control of pipeline string				
70	Hydrotesting & leak test				
71	***Drilling operation***				
72	Earthwork entry / exit points including grading erection of embankment etc..				
73	Supply & clearing out of all material needed for drilling				

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74	Drilling of washer pipe, reaming & cleaning of drill opening, supply and preparation of bentonite				
75	Pull back of the pipe string				
76	Disposal of surplus of soil & bentonite				
77	Control of the integrity of the coating				
78	***Work at entry point***				
79	Changes in direction				
80	Beveling & welding				
81	Inspection & testing of welds				
82	Field joint coating & coating of all bare section of pipe				
83	Earthwork				
84	Lowering-in				
85	backfilling as required				
86	***Work at exit point***				
87	Changes in direction				
88	Beveling & welding				
89	Inspection & testing of welds				
90	Field joint coating & coating of all bare section of pipe				
91	Earthwork				
92	Lowering-in				
93	backfilling as required				

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94	Complete work for the water/ Road/ Rail crossings, including taking over and handling of linepipes from Contractor Storage Yard to worksite, Arrangement of all additional land required for Contractor's storage, fabrication, access for construction; construction design calculation and engineering of the crossing, mobilization and demobilization at site(s), supply of all materials as per "Scope of Supply" and all consumables, equipment, manpower and other resources, and acquiring the required land for site preparations, and execution of, but not limited to, the following works in accordance with specifications, drawings, and as per provisions of the Contract document and instructions of the Company/ Engineer-in- Charge: Carry out all surveys required for collecting data relevant to design and construction of the crossing, preparation of all necessary construction drawings for Company's approval as per the provisions of the Contractor document, Preparation of detailed construction method statement and calculations including Scour Depth calculations for river/ canal crossings, Strings preparation including welding, 100% Radiography of welds, NDT of welds and re-beveled areas, radiography, weld repair and re-test, pre-testing of completed string, corrosion coating of field joints with Dirax or equivalent, inspection of corrosion coating and repair of defects, Preconstruction surveys and collection of all necessary data, Installation of pipeline and CS conduit (6 Inch CS Conduit shall be installed through Seperate Drilling) , horizontal directional drilling to the correct profile as per approved drawings and specification, Post-installation hydrotest including leaks and repair of defects and retesting, etc. for defects attributed to Contractor's faulty work, Supply, fabrication and construction of protective fencing as required, Hydrotesting, Supply, fabrication and erection of pipeline markers, Restoration and clean-up etc., Preparation of as-built drawings and other records etc., All other works not specifically listed herein, but required as per specifications, drawings, provision of contract document, calculations, and construction method statements, leading to successful completion of works.				
95	Linepipe details:- (Pipe 8" dia, Wall Thickness: 7.1 mm, Pipe Grade: API 5L GR.X-60 PSL 2, External Coating: 3LPE) CS Conduit details: (Pipe 6" dia, 6.4mm Thick, API 5L GR.B) Note: 1. CS Conduit shall be supplied by the Contractor. Radiography & Hydrostatic testing is not required to be done for CS Conduit. (6 Inch CS Conduit shall be installed through Seperate Drilling) Contractor shall quote accordingly. 2. The rate shall be applicable for the drilled length of the HDDs. All above works shall be executed in accordance with scope of work, GTS,PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. This line item is applicable for HDD crossing mentioned in the Crossing List with prior approval of Engineer - In-Charge during Construction.	192	M	22,000	42,24,000.00
96	**SUPPLY & INSTALLATION OF OPTICAL FIBBE CABLE AND HDPE DUCT**				
97	Suppy of 24 Fibre Composite armoured Optical Fibre Cable drum (6 fibre G-655 & 18 fibre G-652) of 4 km +/-5% Cable drum length with fiber terminal closure, inspection chamber, electronic route marker all along pipeline route, Two number electronic locater as per PTS-Optical Fibre cable and Scope of Work C&I along with all required accessories and fitments not mentioned seperately.	7000	M	75	5,25,000.00
98	Inspection/Jointing Chamber (fabricated or readymade)	3	Nos	4,000	12,000.00
99	Blowing Pit (fabricated or readymade)	7	Nos	4,000	28,000.00
100	Supply of jointing closure 24 Fiber, 2 way including all accessories (3M, Siemens, Reychem make only)	3	Nos	5,000	15,000.00
101	Supply of End to End OFC termination of wall mounted FTC with pig tails other accessories for termination of OFC - 24 Fibre in the Telecom Room at Jharia & SV28	2	Nos	75,000	1,50,000.00
102	Electronic marker	3	Nos	3,500	10,500.00
103	Electronic Locator	1	Nos	2,50,000	2,50,000.00
104	Supply of 50mm OD permanently lubricated HDPE telecom duct along with all the required accessories as per PTS-Optical Fibre cable and Scope of Work C&I	7000	M	220.00	)00.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Enprocon Enterprise Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
105	Laying of HDPE Duct : Laying of 50mm HDPE Ducts in same pipeline trench direct buried, or inside 6 inch CS conduit at various crossings as per Specification in all type of soil & terrain, excavated as required, padding, backfilling, etc. including supply of accessories required for HDPE Duct installation, including plastic couplers, end plugs, cable sealing plugs, end caps, etc. suitable & sufficient for above supplied ducts, cleaning and sealing of ducts at the end laid drum lengths, preparation and supply of cable blowing pit at each Km jointing of HDPE duct, testing of HDPE Duct and accessories after laying preparation of report and final drawing and documents as per specification, joint location marking, erection accessories, as-built, etc.	7000	M	225.00	15,75,000.00
106	Blowing of Optical Fibre Cable inside HDPE Duct : All activities pertaining to Blowing of Optical Fibre Cable in same pipeline trench directly (after testing drum at site), inside HDPE duct along the pipeline and at crossing, sealing using all materials required as per specification	7000	Nos	40.00	2,80,000.00
107	Installation of FTC & Wire mesh, termination of OFC on FTC / DDF inside telecom room, splicing with steet fibre, fibre test, OTDR test, power testing of laid OFC, identification of fault, rectification, earthing, final testing and commissioning, preparation of reports, etc. work complete in all respect with all necessary accessories for all location till final Handing Over and Taking Over by Owner of laid OFC.	1	LS	5,00,000.00	5,00,000.00
108	**TRANSPORTATION OF COATED AND BARE LINEPIPES FROM GAIL DUMPYARDS (ANY LOCATIONIN INDIA) TO CONTRACTOR STORAGE YARD:**				
109	"Receiving and taking over" of "free issue" Linepipes from GAIL Dump Yard location (any location in India); Carrying out inspection of Linepipes at the time of receiving and taking-over, recording of pipe & coating defects at the time of taking over in the presence of Company's representative, carrying out repair of coating defects & pipe defects attributable to Company; including supply of materials, consumables & equipments; handling, hauling and transportation from designated place of issue to Contractor Storage Yard; unloading and stacking of the linepipes at Contractor Storage Yard; including arranging all equipments, trailers, trucks & manpower; all works as per Scope of Work, drawings, PTS, GTS and other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, Provision of Contract & instructions of Engineer InCharge.				
110	Linepipe Details:- Coated and Bare Line Pipe 8" diameter API 5L Gr. X-60 PSL-2 Wall Thickness - 6,4mm / 7.1mm External Coating - 3LPE, Internal Coating - Liquid Epoxy 1) Loading of Pipes into Installation contractor's trailer shall be carried out by the contractor. 2) Development & Maintenance of Contractor Storage Yard adequate to store the linepipes including arrangement of all Lifting & Handling equipment at Contractor's Storage Yard shall be done by the Contractor. Rate for the same shall be quoted in applicable items. 3) Rate for repairing of coating defects in linepipes identified and recorded at the time of receiving & taking over i.e. coating-defects attributable to Company shall be included in this item. 4) Rate for repairing of pipe-defects identified and recorded at the time of receiving & taking over i.e. pipe-defects attributable to Company shall be quoted separately in the applicable items of the SOR. 5) Transportation of line pipe from Contractor's Storage Yard to work site is included in SOR item 1 above, No separate payment will be applicable for the same.	350000	Ton-Km	6.00	21,00,000.00
111	TRANSPORTATION OF FREE ISSUE PIPING ITEMS (OTHER THAN LINE PIPE) FROM GAIL STORAGE YARDS (ANY LOCATION IN INDIA) TO CONTRACTORS YARD / WORKSITE(S) : "Receiving and taking-over", handling, lifting, loading, transportation and unloading of Company supplied "free-issue materials" (Other than line pipe) viz. Metering Filtering and PRS Skid, Scrapper Launcher/ Receiver & accessories, Valves with or without Actuators, Insulation Joints, Flow Tee, Pig Signallers, fittings, flanges etc. from GAIL Storage yards location (any location in India) to Contractor's Storage Yard / work-site(s). Note:- 1) Location of GAIL Storage Yard shall be anywhere in India. Contractor shall quote accordingly. 2) Transportation of FIM from Contractor's Storage Yard to work site, is included in SOR item 119 below, No separate payment will be applicable for the same.	24000	Ton-Km	6.00	1,44,000.00
112	**DEVELOPMENT OF CONTRACTOR STORAGE YARD:**				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Enprocon Enterprise Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
113	Development of the Contractor Storage Yard including fencing, illumination etc., including deployment of all lifting and handling equipments, manpower required to stack, unload and load all Free Issue Material (FIM) including Line Pipes and all bought out items, as required; storage of all Free Issue Material and bought out items for the required duration as per project requirement, all works as per Scope of Work, drawings, other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, PTS, GTS and Provision of Contract & instructions of Engineer In-Charge. The storage yard shall be used for storage of all Free Issue Line pipes, all other Free Issure Material (FIM) and all bought out items required for the project. Notes:- 1) Development of contractor storage yard adequate to store all the material required for Project, including all Free Issue Material (FIM) and bought out items. (Rate for the same shall be captured in this item) 2) Maintenance of contractor storage yard for the entire project period is included in the scope of contractor. No separate payment shall be applicable for the same.	1	LS	8,00,000.00	8,00,000.00
114	Hard Rock breaking by controlled blasting / chiseling method (rate will be applicable in case when prior approval for rock breaking is obtained by the contractor from GAIL / PMC)	50	M3	6,000.00	3,00,000.00
115	Clean Agent Fire Supression System as per Scope of Work	1	LS	8,00,000.00	8,00,000.00
116	Restoration of underground utilities (pipes & cables) during excavation at ONGC, GCS Jharia and Receiving Station (which is inside SV-28 Premises)	5	Nos	5,000.00	25,000.00
117	**Sub-Total Section A**				**4,13,56,030.00**
118	**SECTION-B [MECHANICAL (PIPING & TERMINAL WORKS)]**				
119	**PIPING WORKS AT DESPATCH AND RECEIVING STATIONS AND HOOK-UP WITH ONGC GCS, JHARIA** All works for installation of all piping at all elevations for Despatch and Receiving Stations as indicated in Drawings, Scope document, including supply of all consumables, Gaskets, nuts, bolts Studs, manpower, materials and equipment (except Company supplied free-issue materials), aligning, grouting, tie-in with pipeline and carrying out all mechanical works of underground and above ground piping including fabrication, welding, installation of all pipes, valves (manual & actuated), flanges, fittings, flow tees, pig signalers, insulating joints, corrosion monitoring probes /corrosion coupons, installation of instruments (pressure/temperature gauges, vents, drains-off, safety relief valves, electro hydraulic valves etc.) as indicated in P& IDs and GADs. 100% Radiography of weld joints of piping above 1.5 inch, Magnetic particle & Die penetration test for piping 1.5 inch & below, all NDT of welds, weld repairs/retesting, hydrostatic testing, cleaning/flushing, functional testing, de-pressurizing , Drying and dewatering, cutting and re-beveling (as required), hookup of all pipeline/utilities at the battery limit with the pipeline/utilities installed by others, obtaining all statutory clearances, approvals and permissions for the work (wherever required), excavation and filling in all types of soils including soft/hard rock for installation of piping/ pipe supports; corrosion coating and external painting (as required), finishing, clean-up and restoration of site, preparation of as- built drawings, documents and project records and performing all works as per drawings, specifications, other provisions of Contract document and instructions of Engineer-in-Charge. Civil/ structural works for piping supports will be paid separately as per unit rate provided elsewhere in the contract. Cost of Transportation of all materials (Including FIM mentioned above) for station works, from Contractor's own stock-yard to Work site, to be included in this SOR item. No separate payment will				
120	Fabrication and Erection of piping as per item no.110, (For Pipe Size 2 Inch and above, 100% Radiography) Note: 1. Rate for Handling, Fabrication and erection of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item. Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor.Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes 2" & above, shall also be part of this item. Contractor shall quote accordingly.	1500	INCH DIA METER	350.00	5,25,000.00
121	Fabrication & Erection of Piping as per item no. 110 (For Pipe Size Below 2 inch, Magnetic particle & Dye Penetration Test as per the requirement of specification) Note: 1. Rate for Handling and installation of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item.Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor. Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes below 2", shall also be part of this item. Contractor shall quote accordingly.	50	INCH DIA METER	350.00	17,500.00
122	Painting of Piping (Pipe, Fittings, Flanges, Valves, Equipments, etc.) as per item no. 110	1550	ICH METER	50.00	77,500.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Enprocon Enterprise Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
123	Hydrostatic testing, cleaning / flushing, functional testing, de-pressurizing, dewatering & drying of Piping as per item no. 110 (for all size upto 10").	1550	ICH METER	50.00	77,500.00
124	**INSTALLATION OF COMPANY SUPPLIED FIM (FML SKID AND PIG LAUNCHER/RECEIVER SYSTEM) AT DESPATCH TERMINAL AND RECEIVING TERMINAL**				
125	Installation of Company supplied Filtering, Metering and PRS Skid and Scrapper Launcher/ Receiver with accessories, at stations including all handling and installation works; as per drawings, specifications enclosed with the Contract and directions of Engineer-in-Charge. Cost of Transportation of above Free issue items, from Contractor's own stock-yard to Work site for station works, to be included in this SOR item. No separate payment will be applicable for the same.	1	LS	2,50,000.00	2,50,000.00
126	**CONTRACTOR SUPPLIED ITEMS:(Supply of Items as per attached PTS,GTS,Data Sheet,QAP and PMS)**				
127	**Station pipe -Seamless**				
128	1" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, PE, SEAMLESS	6	METER	1,800.00	10,800.00
129	2" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	90	METER	3,200.00	2,88,000.00
130	4" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	135	METER	4,500.00	6,07,500.00
131	8" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	50	METER	20,000.00	10,00,000.00
132	8" pipe, 6.4mm thk, ANSI B 36.10, API5L X 60, BE, HFERW/SEAMLESS	29	METER	25,000.00	7,25,000.00
133	10" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	12	METER	20,000.00	2,40,000.00
134	**Supply of Fitting & Flanges**				
135	1 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 350 LF2,CL1, BW, ANSI B16.25	4	Nos	1,800.00	7,200.00
136	2 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25.	3	Nos	1,800.00	5,400.00
137	1" WNRF FLANGES, 6C1, SCH. 160 / 600#, WNRF, B-16.5, ASTM A350 LF2, CL1, BW-ANSI B16.25 RF	4	Nos	1,800.00	7,200.00
138	8", WNRF FLANGES, 6C2, 6.4 thk/ 600#, WNRF, B-16.5, ASTM A694 F60 OR EQUIVALENT, CL1, BW-ANSI B16.25 RF.	5	Nos	1,500.00	7,500.00
139	1", BLIND FLANGES, 6C1, 600#, RF, B-16.5, ASTM A350 LF2, CL1, RF	4	Nos	1,500.00	6,000.00
140	3/4" EQUAL TEES, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25,	1	Nos	1,575.00	1,575.00
141	3/4", CUP THREADED 6C1, 6000#, ANSI B16-11, ASTM A 350 LF2, CL1 , BW - ANSI B16.25, ANSI B1.20.1,	3	Nos	1,575.00	4,725.00
142	**WELDOLETS (MAINLINE x BRANCH SIZE)**				
143	4" x 1", WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1 ,	2	Nos	4,000.00	8,000.00
144	8" x 2" WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 6.4 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 694 F60	13	Nos	12,000.00	1,56,000.00

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	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00
TRACTEBEL ENGIE			Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Enprocon Enterprise Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
145	8" x 2", WELDOLETS (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	26	Nos	12,000.00	3,12,000.00
146	**GASKETS**				
147	GASKETS, 6C1, 600#, RF, ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 1"	12	Nos	500.00	6,000.00
148	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 2"	210	Nos	800.00	1,68,000.00
149	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 4"	30	Nos	1,000.00	30,000.00
150	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 8"	47	Nos	2,000.00	94,000.00
151	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 10"	2	Nos	2,500.00	5,000.00
152	**NIPPLES**				
153	NIPPLES, 6C1, Sch 160 /600#, ANSI B 36.10, ASTM A333 GR.6, BOTH ENDS PLAIN, SEAMLESS-LG=100mm, 3/4"	12	Nos	1,500.00	18,000.00
154	NIPPLES, 6C1, Sch 160 / 600#, ANSI B 36.11, ASTM A333 GR.7, ONE END THRD -MNPT SEAMLESS- LG=100mm, 3/4"	8	Nos	1,000.00	8,000.00
155	**INSULATING JOINT**				
156	INSULATING JOINT 6C,16.4 mm (X60) x 600# ,MANUFACTURER STANDARDS ,ASTM A694 F60 ,BW - ANSI B16-25, 8"	2	Nos	2,000.00	4,000.00
157	**Supply of following Valves as Per attached PTS,GTS,Data Sheet,QAP,PMS & MTO**				
158	1",BALL VALVE - FULL BORE (RF) (ABOVE GROUND),6C1	6	Nos	11,000.00	66,000.00
159	3/4", CHECK VALVE (RF) (AG), 6C1	2	Nos	5,000.00	10,000.00
160	3/4",NEEDLE VALVE, 6C1	5	Nos	3,000.00	15,000.00
161	**Note (Applicable for all items of SOR Item No 126 to 160):** **1. Before procurement of any of the above materials Contractor will take prior approval from GAIL / PMC.** **2. Payment will be made for actual quantity used.**				
162	**Sub-Total Section B**				**47,58,400.00**
163	**SECTION-C [CIVIL / STRUCTURAL & ARCHITECTURAL]**				
164	**CIVIL , STRUCTURAL & ARCHITECTURAL**				
165	**Earthwork excavation in soil**				
166	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	1770	cum	350.00	6,19,500.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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167	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth beyond 1.5m and upto and inclusive of 3.0m including Removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	50	cum	450.00	22,500.00
168	**Earthwork excavation in soft rock**				
169	Earth work in EXCAVATION below ground level for all kinds of works in SOFT ROCK and HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as irected including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	130	cum	450.00	58,500.00
170	**Backfilling after execution of work**				
171	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps within a LEAD OF 100M,including re-excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/ mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	580	cum	350.00	2,03,000.00
172	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps beyond a LEAD OF 100M AND UPTO & INCLUSIVE OF 500M including re- excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	250	cum	350.00	87,500.00
173	**Transporting & Disposing the SURPLUS EARTH AND DEBRIS**				
174	Transporting and disposing the SURPLUS EARTH AND DEBRIS including shrubs and vegetations from construction areas to areas ANYWHERE OUTSIDE THE PLANT BOUNDARY, including re-excavating the deposited soil excavated earlier, loading, transportation, unloading, laying at all depths and heights, stacking,levelling and dressing both the area (viz. from where the earth is transported and where it is deposited) to required levels and slopes complete with all lifts as directed. For carting on the basis of truck measurements (volume of truck reduced by 30% for voids). DISPOSAL AREAS OUTSIDE PLANT BOUNDARY TO BE ARRANGED BY THE CONTRACTOR. Royalty as applicable for disposal outside plant limits to be borne by the Contractor	760	cum	120.00	91,200.00
175	**EARTH WORK FILLING BY EXCAVATION**				
176	EARTHWORK IN FILLING by excavating the earth from BORROW AREAS arranged by CONTRACTOR for all leads, transporting the earth from borrow area including cleaning & stripping the earth at borrow areas, breaking clods, loading, unloading and laying at all depths and heights in layers of thickness not exceeding 15 cms., watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% of the maximum laboratory dry density, ressing, trimming, levelling the top surface etc. in foundations, plinths, trenches etc. all complete.	4725	cum	150.00	7,08,750.00
177	**PLAIN & REINFORCED CEMENT CONCRETE: (REFER SPECIFICATION NO. (Z/02/0004)**				
178	**PLAIN CEMENT CONCRETE - PCC**				
179	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:4:8 (1 cement : 4 coarse sand (Zone-III) : 8 graded stone aggregate 40 mm nominal size)	105	cum	5,500.00	5,77,500.00
180	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:3:6 (1 cement : 3 coarse sand (Zone-III) : 6 graded stone aggregate 40 mm nominal size)	20	cum	5,500.00	1,10,000.00
181	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:2:4 (1 cement : 2 coarse sand (Zone-III) : 4 graded stone aggregate 20 mm nominal size)	120	cum	6,220.00	400.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Enprocon Enterprise Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
182	Providing and laying PLAIN CEMENT CONCRETE for all depths below and upto plinth level in foundations, drains, fillings, non-suspended floors, pavements & ramps or any other works etc. including shuttering, tamping, ramming, vibrating, curing, etc. all as specified in any shape, position, thickness and finishing the top surface rough or smooth as specified and directed all complete for concrete grade M20 with 20mm and down size graded crushed stone aggregates/Gravels. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR	110	cum	7,500.00	8,25,000.00
183	**RCC WORKS**				
184	**SUBSTRUCTURE**				
185	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUBSTRUCTURE INCLUDING CENTERING & SHUTTERING) e.g. foundations, raft, beams, pile caps, Retaining walls, counterforts, buttresses, pedestals, pipe sleepers, columns, suspended floors, staircases, landings, steps, brackets etc., including equipment/ machine foundations & pedestals viz. compressors, generators, etc. (including single pour concreting as specified on the drawing), applying cement wash on concrete surface (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering, etc., wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT)for all depths below and upto plinth level in any shape, position and thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	615	cum	8,500.00	52,27,500.00
186	**SUPER STRUCTURE - EXCLUDING CONTROL ROOM BUILDING, GUARD ROOM & BOUNDARY WALL**				
187	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUPER STRUCTURE INCLUDING CENTERING & SHUTTERING in suspended floors, slabs, beams, columns, walls including counterforts, staircases, landings, steps, facias, fins, mouldings, gutters, shelves, window sills, canopies, lintels, girders, ducts, brackets, chajjas with drip moulds, pedestals, posts, struts, equipment/ machine foundations, ramps etc. (including single pour concreting as specified on the drawing), providing cement wash (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT) FOR ALL HEIGHTS UPTO & INCLUSIVE OF 20 m ABOVE PLINTH LEVEL in any shape, position, thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	70	cum	8,500.00	5,95,000.00
188	**CONTROL ROOM BUILDING (SUPERSTRUCTURE)**				
189	Construction of Control Room Building as per drawings and specification. Building work for all Superstructure works INCLUDING CENTERING & SHUTTERING , Reinforcement , masonry work, partition wall, Plastering & pointing, flooring, Floor finishes, Door & windows, rolling shutter, false ceiling, all finishes, painting, roof treatment complete in all respect etc.)	215	m2	520.00	1,11,800.00
190	**GUARD ROOM (SUPERSTRUCTURE)**				
191	Guard Room as per drawings and specification. Building work for all superstructure works including (Reinforcement, masonry work Plastering & pointing, flooring, Floor finishes, Door & windows, painting, roof treatment, all finishes, water supply and sanitary work complete in all respect etc.)	17	m2	8,500.00	1,44,500.00
192	**HYD Bars / MS Bars**				
193	Supplying and placing in position HIGH YIELD STRENGTH DEFORMED STEEL BARS REINFORCEMENT of Grade Fe500D TMT conforming to IS:1786, for RCC work (excluding control room building & Guard room & boundary wall superstructure) including transporting the Steel, straightening, cleaning, decoiling, cutting, bending to required shapes and lengths as per details, binding with 18 SWG black soft annealed binding wire at every intersection, supplying and placing with proper cover blocks, supports, chairs, overlaps, welding, spacers, fanhooks etc. for all heights and depths etc. all complete as directed. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE	70	MT	85,000.00	59,50,000.00
194	**STRUCTURAL STEEL WORKS (REFER TE SPECIFICATION)**				

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Enprocon Enterprise Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
195	Supplying, fabricating and erecting of structural steel and applying COATING (Post-erection/ Field) of approved quality and shade as per TE Specification or Job Specifications, wherever applicable) over the coat of shop primer already applied, including storage, surface preparation, degreasing, cleaning, drying, providing necessary arrangement for access, testing etc. including touching up of shop for steel structures (Including Wicket Gate, Main Gate and emergency gate, excluding ladders, spiral stairways & hand rails) at all location & levels, all complete as specified, for UNIT (INLAND) areas considering environment classification as INDUSTRIAL. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE. (Unit rate based on Structural steel weight)	25.5	MT	2,000.00	51,000.00
196	**MISCELLANEOUS STEEL WORKS (REFER TE - SPECIFICATIONS)**				
197	MS Chequered Plates				
198	Supplying, fabricating and erecting in position at all levels and locations bolted, screwed and/or welded M.S. CHEQUERED PLATES of any thickness in walkways, platforms, stairtreads or any other place as directed, etc. cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing, welding, preparation and submission of fabrication drawings and preparing the surfaces for painting and applying shop primer as per TE Specification after fabrication and return of unused/ scrap/ unserviceable chequered plates to Owner's store and material reconciliation etc. all complete as specified and directed	1.5	MT	95,000.00	1,42,500.00
199	Anchor Bolts				
200	Supplying, fabricating, fixing and keeping in position at all levels and locations THREADED ANCHOR BOLTS of all diameters and nomenclature including nuts, washers, anchor plates, pipe sleeves etc. in foundations, columns, pedestals, slabs, beams, walls etc. or any other place as directed including handling & transporting, straightening if required, turning from relevant size M.S. rounds to required diameter, threading, welding, providing necessary templates and auxiliary dummy structures, if any, necessary tying and welding with reinforcement, adjustment of shuttering & reinforcement/any other fixture, greasing exposed metal surfaces, covering bolts and packing the sleeves with jute cloth etc. all complete as specified and directed.(SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.6	MT	98,000.00	1,56,800.00
201	MS Metal Inserts				
202	Supplying, transporting, storing, fabricating and fixing in position M.S. METAL INSERT (with lugs) of any shape made out of flats, plates, rolled sections, pipes etc. providing necessary templates, staging, cutting,straightening, if required, bolting, welding as required and embedding in position on both Plain and Reinforced Cement concrete members inclusive of adjusting shuttering & reinforcement/ any other fixture, welding where necessary, tying and holding to correct level, line and position, any auxiliary dummy structures to support the heavy inserts, painting exposed surfaces with a coat of primer as per TE Specification all complete for all depths and heights as specified and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	0.55	MT	1,35,000.00	74,250.00
203	MS Grating				
204	Supplying, fabricating and erecting in position at all levels and locations ELECTROFORGED GALVANISED GRATING (purchased from approved manufacturer by the Contractor) conforming to TE STANDARD (in walkways, platforms, stair treads etc.) including cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing with manufacturer's supplied galvanised clamps, preparation and submission of fabrication drawings, all complete as specified and directed (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.85	MT	98,000.00	1,81,300.00
205	Hand Railing 1000mm				
206	Supplying, fabricating and fixing in position at all locations 1000mm high INCLINED HAND RAILING (for staircases) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade M.S. Tubes conforming to IS:1239 including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE SPEC. preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	3,000.00	30,000.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Enprocon Enterprise Ltd.

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207	Supplying, fabricating and fixing in position at all locations 1000mm high HORIZONTAL HAND RAILING (for platforms, walkways, etc. or any other location as directed) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade MS Tubes conforming to IS:1239 and 100x5 MS Toe Plate confirming to IS:2062 (Grade A/B), including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE standard drawing & specification, preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	3,000.00	30,000.00
208	**CHAIN LINK FENCING**				
209	Supplying, fabricating and fixing G.I. chain link fencing with 3.5mm dia. wire, 50x50mm diamond mesh chain link fence fabric conforming to IS:2721 fixed to steel/RCC posts/struts above ground level, including supply of chain link fencing fabric in 1.9 metre wide rolls, stretcher bars, staples, etc. required for fixing the fencing, fixing of chain link fencing between straining posts, fixing of bottom of fencing in cement concrete 1:2:4 blocks and painting with synthetic enamel etc. , including supply and fixing line wires, complete as per drawings, specifications and directions of Engineer -in-Charge (All materials shall be supplied by Contractor). (The measurement of chain link fencing shall be on linear basis for 1.9 m wide fencing fabric)	10	M	6,500.00	65,000.00
210	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of the Engineer-in-Charge. Made of G.I. wire of dia. 4 mm, PVC coated to achieve outer dia not less than 5 mm in required colour and shade.	600	M2	450.00	2,70,000.00
211	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Star' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	200	M	150.00	30,000.00
212	**ROADS & FLEXIBLE PAVEMENT (UPTO WBM LAYER)**				
213	Preparation and consolidation of sub-grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth outside the property boundary in the un-disputed areas as directed by Engineer-In-Charge.	1500	M2	4,500.00	67,50,000.00
214	Supplying and laying of stone aggregate of 63mm down to 45mm size for WBM layer Base Course, tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 75mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding material of plasticity index upto 6%, including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts etc. complete as per drawings, specifications and directions of Engineer-in-Charge	4500	M2	4,500.00	2,02,50,000.00
215	**CONCRETE PAVEMENTS**				
216	Construction of dry lean cement concrete **(DLC) sub base** over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in- charge.	150	cum	12,000.00	18,00,000.00
217	Providing and laying Reinforced Cement Concrete with 20mm and down size graded crushed stone aggregates in flooring, pavements etc. including leaving pockets, if necessary, making recess/drains, laying in alternate panels, etc. for all depths including shuttering, tamping, curing, providing dowel bars with sleeves/tie bars etc where ever required at site. as specified in any shape, thickness, position and finishing the top surface smooth etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For RCC of M-30 grade concrete (all materials including cement but excluding cost of providing & fixing reinforcement and joint sealing shall be supplied by the contractor).	375	cum	12,000.00	45,00,000.00

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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218	Providing 20mm wide Expansion Joints in pavement slabs as per general technical specification including cleaning the joints of all loose material, filling with 20mm thick impregnated fibre boards for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved Joint Sealing Compound as per IS:1834 Type-B etc. all complete as per drawings, specifications and directions of Engineer-in-Charge	720	M	500.00	3,60,000.00
219	Sealing joint around pedestal and column etc. 20mm wide x 150 mm deep including filling with 20mm thick impregnated fire board for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved joint sealing compound as per IS:1834 Type-B.	300	M	500.00	1,50,000.00
220	**RCC PIPE CULVERTS & ELECTRICAL ROAD CROSSINGS ETC. (as per drawing & TE specification)**				
221	Supplying and laying in position RCC pipes with collars conforming to IS:458 for pipe culverts, cable crossings etc. including cutting the pipe if necessary, lowering, laying in position to proper levels, slopes etc. caulking the joints with spun yarn soaked in neat cement slurry and finishing with cement mortar 1:2 (1 cement : 2 sand) curing etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For following Class and Internal PIPE DIA (MM). (Dia (internal) - 500 mm, Pipe Class - NP3)	20	M	2,000.00	40,000.00
222	**U/G AND A/G G.I. PIPELINE SYSTEM - WATER SERVICES tender specification**				
223	Supplying and laying mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ ASTM A105 (Galvanized) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, earthwork in excavation for trenches, valve pits, etc. in all types of soil excluding soft and hard rock including laying of pipes in trenches, joining the pipes and fittings with threaded connections, hydrostatic testing of the piping, backfilling the trenches with selected/approved earth fill material, cutting of roads wherever required, making good the road surface after laying, disposal of surplus earth within a lead of 500 m, etc. including supply of necessary fittings etc. complete as per specifications, drawings and directions of Engineer-in-Charge. For following Nom.Size in mm. (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	500.00	5,000.00
224	Supplying and laying above ground mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ASTM A 105 (GALVANISED) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, including laying of pipes on sleeper, walls, including erecting piping on columns, etc. for pump station, overhead tanks, etc. including joining the pipes and fittings with threaded connections, hydrostatic testing of the piping including supply of necessary fittings etc & pipe supports. complete as per specifications, drawings and instructions of Cement Supplied by contractor (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	600.00	6,000.00
225	**MISC. CIVIL AND STRUCTURAL WORKS FOR U/G PIPING AND OTHER CIVIL WORKS**				
226	Providing and laying brick masonry with locally available bricks of specified class (Brick of class lower than specified shall not be accepted) in cement mortar 1:4 (1 cement : 4 Coarse sand) in one or more brick thickness and in any shape in foundation and plinth for valve pits, drains, circular/square manholes, wing walls, etc. including providing recesses, openings, etc. including curing, finishing the joints flush below ground level and raking out joints in plinth with all labour and material, etc. complete as per drawings, specifications and direction of Engineering-Charge. For following Brick Class.	280	cum	980.00	2,74,400.00
227	Providing 13mm thick average cement plaster in cement mortar 1:3 (1 cement: 3 sand) on brick walls/stone masonry/pitching or on concrete surfaces for manholes, valves pits, culverts, wing walls, etc. including cleaning and preparation of the surface, scaffolding, curing etc. for all depths and heights complete as per drawings specifications and direction of Engineer-in-Charge. All materials including cement supplied by the Contractor.	750	M2	310.00	2,32,500.00
228	**UNDERGROUND SEWER SYSTEM - RCC PIPES**				
229	Supplying and laying underground R.C.C. pipes sewers with socket and spigot ends conforming to IS:458 of approved make, to proper grade and alignment, including earthwork in excavation in all types of soil except soft and hard rock for pipe trenches, etc. including dewatering, shoring and shuttering if necessary, dressing of sides, leveling, grading and ramming of bottoms, cutting the R.C.C. pipes to required lengths, lowering the pipes, jointing, including connecting the pipes to manholes and grouting the pipe body with manhole wall using cement mortar 1:2 (1 cement : 2 sand), testing, draining of water and cleaning of pipe after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness , watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, including cutting of roads wherever required and making good the same, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit etc. complete for all depths as per drawings, specifications and instructions of Engineer-in-Charge.(All material shall be supplied by contractor) For following Pipe size (mm) and Class(The following pipe sizes are all internal diameter of the pipes)				
230	(Dia (Internal) - 100 mm, Piping Material Class - NP2)	15	M	980.00	14,700.00
231	(Dia (Internal) - 150 mm, Piping Material Class - NP1)	15	M	1,200.00	00.00

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232	(Dia (Internal) - 450 mm, Piping Material Class - NP2)	70	M	1,450.00	1,01,500.00
233	**UNDERGROUND SEWER SYSTEM-HDPE PIPES**				
234	UNDERGROUND SEWER SYSTEM-HDPE PIPES :- Supplying and laying HDPE pipes conforming to IS:4984 of approved make to proper grade and alignment, including earthwork in excavation for trenches etc. in all types of soil except soft and hard rock including dewatering till completion of subsequent works, shoring and strutting, if necessary, dressing the sides, leveling, grading and ramming the bottom, jointing the pipes using hot plates as per manufacturer's recommendation, lowering, providing and laying 1:5:10 (1 cement : 5 sand : 10 aggregate) plain cement concrete of minimum 100mm thickness on bottom and side of pipe as directed, connecting the pipes to manholes and grouting the pipes to manhole/valve chamber walls, including supplying and fixing the specials and fittings, such as bends, reducers, tees, elbows, caps etc. conforming to IS:8008 or fabricated from pipes as per specification, supplying and fixing of flanges, fixing of online valves, including fixing of bolts, nuts and gaskets etc. as per specifications, testing, draining of water and cleaning of pipes after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness, watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit, cutting of road wherever required, making good the same etc. complete for all depths as per drawings, specification and instruction of Engineer-in- Charge. For the following nominal diameter (mm) Pressure Rating(Kg/Cm2). (Dia (Internal) - 80 mm, Pressure Rating - 2.5 Kg/sqcm)	50	M	300.00	15,000.00
235	**PLUMBING AND BUILDING DRAINAGE**				
236	Supplying and fixing approved quality Cast Iron soil/waste pipe conforming to IS:1729 below ground with necessary specials, bends such as Y-junction, T- junction (both single and double) including plugs, shoes, cowls, jointing with lead caulked joints and testing, cutting in floors, earth work in excavation, encasing the pipe in 50mm THK, PCC M20, backfilling and removal of surplus earth upto a lead of 50M etc. complete as per drawings, specifications and directions of Engineer-in-Complete				
237	100mm dia (All materials including cement supplied by contractor)	10	M	450.00	4,500.00
238	80mm dia (All materials including cement supplied by contractor)	10	M	450.00	4,500.00
239	**Supplying and fixing gun metal globe valve conforming to IS:778, complete as per specifications and directions of Engineer-in-Charge.**				
240	Dia - 50 mm	2	Nos	700.00	1,400.00
241	**Constructing of brick masonry valve chamber in 1:4 Cement mortar(1 cement: 4 sand) with CI frame & cover fixed on M-20 grade cement concrete , necessary excavation, M-20 grade foundation concrete, 13mm thick 1:3 cement plaster on inside & all exposed surfaces, backfilling, removal of surplus earth for all leads within the complex limit etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge. For following Valve size and Brick Class (All materials including Cement supplied by contractor)**				
242	Dia - 50 mm, Brick Class - 5)	2	EACH	2,25,000.00	4,50,000.00
243	Providing and fixing approved stone ware 100mmx100mm dia. gully trap as per tender specification, including grating with CI frame and cover 300mmx300mm including brick masonry (brick class shall be as mentioned below) chamber in 1:4 cement mortar(1 cement: 4 sand) on M-20 grade cement concrete foundation, plastered inside and outside surfaces with 1:3 cement mortar (1 cement: 3 sand) with 13mm average thickness including providing and fixing light duty CI frame and cover, painting CI frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat, earth work in excavation, backfilling, removal of surplus earth, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry etc. all complete as per drawings, specifications and directions of Engineer-in-Charge				
244	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	65,000.00	1,30,000.00
245	Construction as per(Design basis & general technical specification) of brick masonry (brick class shall be as mentioned below) inspection chambers/manholes of 750mmx750mm internal size 1000mm deep(Max.) in cement mortar 1:4 (1 cement: 4 sand) with CI frame and cover 500mm clear dia, (circular Medium duty of grade MD-10) conforming to IS:1726 fixed on RCC slab of M-30				
246	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	60,000.00	1,20,000.00
247	Construction, supplying, installation, testing and commissioning of septic tank as per standards and IS:2470 Part-I , with all necessary accessories like inlet, outlet vent pipes, manhole covers, rungs etc. including earthwork in excavation in all type of soil except soft and hard rock, backfilling and disposal of surplus earth for all leads etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

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248	All material including cement supplied by contractor for (Users - 10 NOS)	1	Nos	55,000.00	55,000.00
249	**MISCELLANEOUS ITEMS**				
250	Supplying and fixing in position entrance gate in complex boundary wall fencing manufactured out of steel frame work and square MS bars of 20 mm at 100 c/c and horizontal name plate band at lock rail level suitably hinged with box type steel post embedded in cement concrete i.e. providing the tension bar for smooth operation and locking arrangement etc. complete as per tender specification, including painting with two coats of anti-corrosive paint and two coats of approved aluminium/synthetic enamel paint etc. complete as per drawings, specifications and directions of Engineer-in-Charge.				
251	4.0M clear opening width of gate in two panels.	3	Nos	2,00,000.00	6,00,000.00
252	Supplying & Laying interlocking Paver Blocks for roads, footpaths and any other place etc. including providing 50 mm thick sand filling below Paver Blocks including compaction of sand layer, filling the joints by dry sand, providing precast kerb stone of PCC M-20 at edges, including preparation of compacted sub-grade etc. all complete as per drawing, standard and directions of Engineer-in-Charge. (All material including cement supplied by contractor, paver blocks shall confirm to IS: 15658. cloour and shape of paver block shall be as per owner requirements for following thickness of paver blocks				
253	**(Thickness - 60 mm)**	285	M3	1,500.00	4,27,500.00
254	Supply and installation on terrace, high density polyethylene drinking water circular tank as per IS:12701 and ISI marked including supply and installation of all fittings, cover with suitable locking arrangement, float valve, making necessary holes for inlet, outlet and overflow connection and vent pipe etc. and the base supports for tank including supply of all necessary material all complete as per specifications and directions of Engineer-in-charge. (Sintex or equivalent having valid ISI license) for following capacities.				
255	**capacity - 500 litre**	2	Nos	18,000.00	36,000.00
256	Supplying, installation, testing and commissioning of Upflow Anaerobic Filter with bleaching tank as per TE Std. Drawing with all necessary accessories like, Upstream inlet CI piping from septic tank, Downstream outlet RCC NP2 class piping up to surface storm water drains, CI pipes for filter chamber, CI valve, RCC pre-cast pit covers, steps, perforated pre-cast slabs etc., inlet chamber, Filter chamber, deluding chamber including earthwork in excavation in all type of soil including soft rock, backfilling with murrum or approved soil arranged by the contractor, disposal of surplus earth etc. complete as per drawings, specification and direction of Engineering-Charge (All materials including cement shall be supplied by the contractor, Brick Class lower than 5.0 shall not be used).	1	Nos	80,000.00	80,000.00
257	**DEMOLISHING AND DISMANTLING**				
258	**Brickwork**				
259	**Demolishing BRICKWORK** (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	300.00	3,000.00
260	**Demolishing BRICKWORK** (taking all necessary safety precautions) for all heights **above plinth level** including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	350.00	3,500.00
261	**RCC**				
262	**Demolishing RCC WORK** (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	600.00	6,000.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Enprocon Enterprise Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
263	**Demolishing RCC WORK** (taking all necessary safety precautions) for all heights **above plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	650.00	6,500.00
264	**PCC**				
265	**Demolishing PLAIN CEMENT CONCRETE** work (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc. disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation and backfilling shall be paid separately under relevant items)	10	cum	400.00	4,000.00
266	**MISCELLANEOUS ITEMS (REFER TE SPECIFICATION)**				
267	**Sand Filling**				
268	Supplying and filling approved SAND of specified quality under floors, in foundations, plinths, tank foundations etc. for all depths and heights including cost of sand,royalties,transportation to site for all leads and lifts, including loading, unloading, spreading in layers of loose thickness not exceeding 150 mm,watering,ramming,compacting with mechanical compactors and/or other equipment to the specified levels to achieve 85% relative density as per IS:2720 Part XIV,including preparation of subgrade to the required slope, providing testing apparatus and testing the degree of consolidation all complete as per drawings, specifications and direction of Engineer-in-charge. The rates shall be inclusive of the cost of all labour,material,equipments etc. all complete .	100	cum	1,450.00	1,45,000.00
269	**SAND GRAVEL MIX**				
270	Supplying and filling sand gravel mix (1:1) with approved aggregate below road, RCC pavement, manholes, pits, foundations, bedding of UG piping etc. in layers of 150 mm loose thickness (maximum) including watering, ramming, rolling, compacting to achieve 85% relative density as per IS 2720 Part-XIV, quarrying, royalties, transportation, handling, etc. all complete as per drawings, specifications and directions of Engineer-in- Charge. (The rate shall be inclusive of the cost of all labour, material, equipment etc. all complete)	105	cum	1,000.00	1,05,000.00
271	**GROUTING WITH NON-SHRINKABLE COMPOUND**				
272	Providing and laying manually or by pumping at all positions a ready mix non-shrink cementitious grout of compressive strength specified below for specified works e.g. pipe support, base grouting of rotating equipment and other installation complete in all respects as per scope of work, detailed construction drawings , technical specifications and directions of the Engineer-In-Charge.				
273	Having compressive strength of 30 N/mm2 , Per bag of 25 Kg	100	Bags	1,000.00	1,00,000.00
274	Having compressive strength 45 N/mm2 , Per bag of 25 Kg	20	Bags	1,000.00	20,000.00
275	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains, SS trench of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.	7.5	m2	1,000.00	7,500.00
276	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, leve and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	13.5	cum	1,000.00	13,500.00
277	Providing and fixing factory made precast RCC **perforated drain covers**, having concrete of strength not less than M-25, of size 1000x450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos. cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of the Engineer-In-Charge.	515	EACH	1,000.00	5,15,000.00
278	**Borewell and recharge well**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Enprocon Enterprise Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
279	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job all complete as per drawing, direction of Engineer -in-charge, in all types of soil :	130	M	3,500.00	4,55,000.00
280	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge.	130	M	550.00	71,500.00
281	Providing and fixing Bail plug/ Bottom plug of required diameter to the bottom of pipe assembly of tubewell as per IS:2800 (Part-I). :150mm dia	3	EACH	2,800.00	8,400.00
282	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	1,500.00	7,500.00
283	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	1,200.00	6,000.00
284	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	1,500.00	7,500.00
285	Gravel packing in tubewell construction in accordance with IS:4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of the Engineer-In-Charge.	3	cum	1,500.00	4,500.00
286	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS:4270, of reputed & approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size dia having minimum wall thickness 5.00 mm	5	M	1,500.00	7,500.00
287	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	60	M	1,500.00	90,000.00
288	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/ 3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS:8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	25	M	1,500.00	37,500.00
289	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of 150 mm diameter	1	Nos	300.00	300.00
290	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS:2800 (Part-I), including necessary bolts & nuts of required size complete 150 mm diameter.	1	Nos	300.00	300.00
291	Supply, Installation and commissioning of 1.5HP Borwell Submersible Pump	1	EACH	15,000.00	15,000.00
292	Supply and Installation of 3Cx10Sqmm Copper Flat Cable	200	M	250.00	50,000.00
293	**LANDSCAPING**				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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294	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment).	335	cum	900.00	3,01,500.00
295	Fine dressing of the ground.	1105	M2	110.00	1,21,550.00
296	Providing & laying Selection no. 1 grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden and than rolling the surface with light roller make the surface smoothen and light watering the same maintenance for 30 days or more till the grass establish properly,as per direction of officer in charge	1105	M2	110.00	1,21,550.00
297	Conducting topographical ground/land survey in the specified area as shown in the tender drawings by conventional/GPS or any other standard method, covering details of physical features like Rivers, Nallahs, Lakes, Ponds, wells, pits, Forest, Trees, Roads, culverts, transmission lines, telegraph/ telephone and electric poles, underground or any other services, cross drainage works including cross sectional details of nallah etc. including establishing high flood level with source of information, identification of any monument, historical structure, wild life sanctuary in the vicinity, storm water disposal point with levels, cross-section details of nallah, recording spot levels, top level of nearest state highway or National Highway, including providing in tabulation girth wise no. of trees etc as specified, plotting and developing topographical contour maps, showing true north including establishing survey reference stations, key plan etc. including all equipment's, instruments, personnel's, clearing of bushes as per requirement for intervisibility to carry out survey work etc. , complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of drawings/map and supply of electronic files. Note: Survey work shall be carried out by survey agency approved by Contractor and sample spot witness of levels cordinates by PMC, and shall be submitted to PMC/Owner for review.Survey drawing will be provided in A0 size with clear visibility of all the spots/levels/ contoure and Bench marks. Permanaet bench mark will be stabished at site in a 450x450 mm size 600mm high bick masonry piller.	4220	M2	200.00	8,44,000.00
298	**GEO TECHNICAL INVESTIGATION (Z/02/0022)**				
299	Conducting soil investigation with boring including all field tests and laboratory tests, mobilization and demobilization of equipments & personnel etc. for soil investigation for each borehole location. complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of Reports & recommendations and supply of electronic files.	5	Nos	1,50,000.00	7,50,000.00
300	**ANTI-TERMITE TREATMENT**				
301	Supplying chemical emulsion in sealed containers including delivery as specified in the Technical Specifications.				
302	Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	200	LITRE	1,000.00	2,00,000.00
303	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
304	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc. as per Techinal specifications and direction of engineering in charge: With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	80	METRE	550.00	44,000.00
305	Treatment of soil under floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the floor:				
306	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	250	SQM	400.00	1,00,000.00
307	Supply and installation 60mm dia GI pipe for column support of gate	15	M	300.00	4,500.00
308	Supply and installation 100mm dia MS pipe	15	M	400.00	6,000.00
309	Supply and installation 50mm dia MS pipe	15	M	500.00	7,500.00
310	Supply and installation of U-PVC pipes (working pressure 4 kg / cm²) Single socketed pipe 75 mm dia for weep holes	200	M	250.00	50,000.00
311	**Sub-Total Section C**				**00.00**

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312	**SECTION-D [CATHODIC PROTECTION WORKS]**				
313	**CATHODIC PROTECTION SYSTEM**				
314	**Cathodic Protection system**				
315	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning & Monitoring of the temporary cathodic protection [TCP] system using galvanic anodes to protect the external surface of the pipeline against soil-side corrosion for minimum 2 year or till commissioning of permanent CP system whichever is later . All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard drawings and vendor list as attached with this tender and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	8,00,000.00	8,00,000.00
316	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning of permanent cathodic protection system for 40 years. The scope of work also includes post commssoning surveys and repair of coating/ rectification of cathodic protection system based on the post commissioning surveys. In additon to the same, AC Interference study on the pipelines to be performed and mitigation measures takes to the satisfaction of Owner/ CONSULTANT. All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard and vendor list attached and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	18,00,000.00	18,00,000.00
317	**Sub-Total Section D**				26,00,000.00
318	**SECTION-E [ELECTRICAL WORKS]**				
319	**ELECTRICAL**				
320	**SWITCH BOARDS / UPS SYSTEM/ PANEL**				
321	Supply , Installation, testing and commissioning of LT Switch-boards, AC UPS system with UPS Distribution board & Ni-Cd Battery banks , distribution boards, cubicles with electrical equipment, misc. electrical panels etc., including transportation from store/yard to site at the place of installation, unpacking, assembly, including mounting and wiring of loose parts supplied by equipment vendor, interconnection of shipping sections and requisite inter-panel wiring between shipping sections, including supply of all wiring materials, installation on foundations or fixing to wall or steel structures, aligning, levelling, grouting, including all labour and materials, as per approved drawings, specifications of this tender and directions of Engineer-in-Charge.				
322	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted MEDB	1	Nos	5,50,000.00	5,50,000.00
323	Supply , erection , termination , earthing and commissioning of wall mounted OLDB as per single line diagram of DT stations	1	Nos	1,50,000.00	1,50,000.00
324	Supply , erection , termination , earthing and commissioning of wall mounted ILDB as per Single line diagram of DT stations	1	Nos	1,50,000.00	1,50,000.00
325	Supply , erection , termination, earthing and commissioning of wall mounted SSDB as per Single line diagram of DT stations	1	Nos	1,00,000.00	1,00,000.00
326	Supply , erection , termination , earthing and commissioning of wall mounted AC DB as per Single line diagram of DT stations	1	Nos	1,00,000.00	1,00,000.00

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327	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 6 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of DT stations	1	SET	4,00,000.00	4,00,000.00
328	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for DT stations.	1	SET	6,00,000.00	6,00,000.00
329	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 1 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of RT stations	1	SET	5,00,000.00	5,00,000.00
330	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for RT stations.	1	SET	6,00,000.00	6,00,000.00
331	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted Emergency DB	1	Nos	4,00,000.00	4,00,000.00
332	Supply , erection , termination , earthing and commissioning of 32A, 4P, 25kA Auto Change-Over switch as per Single line diagram of DT station-JHARIA	1	Nos	4,00,000.00	4,00,000.00
333	**POWER AND CONTROL CABLE**				
334	Supply , laying , termination , erection and testing of 1.1 KV Power and control FRLS PVC Outersheath, XLPE insulated, armored Cables . Outdoor cable will be laid in buried cable trench and in Indoor cable will be laid in Cable trench by provision of Cable tray and supports inside the trench as per PTS - Electrical package P.017110 G 11077 E002				
335	3.5C x 95 sqmm AL FRLS XLPE	300	M	1,800.00	5,40,000.00
336	3.5C x 70 sqmm AL FRLS XLPE	300	M	1,500.00	4,50,000.00
337	3.5C x 50 sqmm AL FRLS XLPE	50	M	1,200.00	60,000.00
338	3.5C x 25 sqmm AL FRLS XLPE	100	M	800.00	80,000.00
339	4C x 16 sqmm CU FRLS XLPE	100	M	800.00	80,000.00
340	3C x 2.5 sqmm CU FRLS XLPE	170	M	250.00	42,500.00
341	3C x 6 sqmm CU FRLS XLPE	250	M	400.00	1,00,000.00
342	4C x 6 sqmm CU FRLS XLPE	350	M	480.00	1,68,000.00
343	2C x 6 sq.mm CU FRLS XLPE	100	M	250.00	25,000.00
344	2.5 sqmm Cu. Wire	1800	M	90.00	1,62,000.00
345	6 sqmm Cu. Wire	600	M	150.00	90,000.00
346	**Earthing & Lightning**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

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347	Supply , Installation , testing and comissioning of GI Earth electrodes & Cu plate type earth pit complete with earth pit as per IS 3043, PTS-Electrical package and all necessary material including exacavation of earth pit , filling with charcol and salt , back filling, brick work , connections including all labour and materials as approved drawing and specification of this tender and direction of Engineer-In charge.				
348	GI Earth Electrodes				
349	65mm dia x 3000 mm L GI pipe electrode type Earth pit	17	Nos	15,000.00	2,55,000.00
350	**Cu plate Earth Electrode**				
351	600x600x3mm Cu plate type Earth pit	8	Nos	18,000.00	1,44,000.00
352	**Earth strip and wire**				
353	50x 6 mm GI Flat strip	850	M	250.00	2,12,500.00
354	25 x 6 mm Cu Flat strip	50	M	150.00	7,500.00
355	2.5 Sqmm Cu wire	250	M	90.00	22,500.00
356	25 x 6 mm GI Flat strip	200	M	150.00	30,000.00
357	10 Sq.mm earthing cable	250	M	150.00	37,500.00
358	GI Earth Bus 50x 6 Sq.mm with all installation assesories	3	Nos	15,000.00	45,000.00
359	Cu. Earth Bus 50x 6 Sq.mm with all installation assesories (in control room)	4	Nos	15,000.00	60,000.00
360	25x3 mm GI Flat for Lightning as well as down conductors for DT station as per overall earthing layout and GGNG-E-20713-3007	80	M	150.00	12,000.00
361	Other lightning assesories like 20mm dia copper rod, hollosphere ,200x200x6mm ms plate ,anchor/fastner ,test links for DT station as per overall earthing layout and GGNG-E-20713-3007	1	LOT	40,000.00	40,000.00
362	**OUTDOOR Lighting**				
363	Supply , erection , Testing & commissioning of Outdoor area lighting system including with supply of flameproof / weather proof light fixture , pole , junction box and earthing including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender & Overall outdoor lighting layout of DT & RT station and directions of Engineer- In charge.				
364	100W FLP LED Fixture & FLP Junction box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	4	Nos	15,000.00	60,000.00
365	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	2	Nos	25,000.00	50,000.00
366	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in RT Stations.	7	Nos	25,000.00	1,75,000.00
367	1x160W FLOOD LED Fixture with weather proof junction box & 9 mtr high pole with all assesories for open area	6	Nos	60,000.00	)00.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Enprocon Enterprise Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
368	1x70 W Solar type Street LED Fixture with weather proof junction box, VRLA Battery (72 hrs backup time) & 9 mtr high pole for street lighting	4	Nos	60,000.00	2,40,000.00
369	1x27 W Post Top Lantran LED Fixture for Gate with weather proof junction box for Gate lamp	2	Nos	8,000.00	16,000.00
370	1x36 W LED industrial fixture suitable to building parapet /wall with all assesories like weather proof junction box/clamp/reducer/	2	Nos	5,000.00	10,000.00
371	**INDOOR Lighting**				
372	Supply, erection, Testing & commissioning of Indoor building area lighting system including with supply of light fixture, point wiring including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender and directions of Engineer- In charge.				
373	2x20 W LED recessed decorative fixture for control room	5	Nos	2,000.00	10,000.00
374	2x20W LED Industrial Fixture for Electrical room	2	Nos	2,000.00	4,000.00
375	1x40W LED Flameproof Fixture for Battery room	1	Nos	2,000.00	2,000.00
376	2x18W LED Industrial Fixture for Varanda/Toilet/ water cooler area/ Guard room	6	Nos	2,000.00	12,000.00
377	1x36W LED Industrial Fixture	4	Nos	2,000.00	8,000.00
378	2x20 W LED recessed decorative fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) control room.	2	Nos	2000	4,000.00
379	2x20W LED Industrial Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Electrical room	2	Nos	2,000.00	4,000.00
380	1x40W LED Flameproof Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Battery room	1	Nos	2,000.00	2,000.00
381	**Switch socket**				
382	Supply and Installation of single/ three phase Switch socket as per Indoor Illumination layout for DT & RT and PTS-Electrical Package and directions of Engineer-In Charge				
383	5/15A surface type switch socket (1 Ph)	7	Nos	1,500.00	10,500.00
384	5A flush type switch socket (1 Ph)	4	Nos	800.00	3,200.00
385	16A Switch socket (I Ph)	3	Nos	1,200.00	3,600.00
386	20A Switch socket for AC (1 Ph)	4	Nos	1,800.00	7,200.00
387	Flame proof Junction box for Exhaust fan in Battery room	2	Nos	8,000.00	16,000.00
388	32A Switch socket for welding receptacles (3 Ph)	1	Nos	5,000.00	)00.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Enprocon Enterprise Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
389	Modular switch board	12	Nos	2,000.00	24,000.00
390	**FANS and Exhaust FAN**				
391	Supply ,Installation and testing of Ceiling Fan and Exhaust fan with louvers including all labours and materials as per Indoor Illumination layout for DT and PTS-Electrical Package and directions of Engineer-In Charge				
392	Ceiling Fan 230V AC 1200 mm sweep	3	Nos	3,000.00	9,000.00
393	450 mm FLP Exhaust Fan for Battery room	2	Nos	2,000.00	4,000.00
394	200 mm Exhaust Fan for Toilet	1	Nos	1,500.00	1,500.00
395	300 mm Exhaust Fan for Electrical room/ CO2 room	3	Nos	1,800.00	5,400.00
396	**Air conditioning unit**				
397	Supply ,Installation and testing of Five star 1.5 Ton Split AC with outdoor compressor unit including all labours and materials as per Typical Indoor Illumination layout for DT and directions of Engineer-In Charge				
398	Split Air condition Five star 1.5 Ton	4	Nos	85,000.00	3,40,000.00
399	**Hardware and other Accessories**				
400	Supply and Installation of Hardware and other accessories including all labours and materials as per Tender specification PTS-Electrical Package P.017110 G 11077 E002 and directions of Engineer-In Charge				
401	Rubber mat	15	M	1,200.00	18,000.00
402	Rubber hand gloves	1	PAIR	800.00	800.00
403	Warning Marker	1	Nos	1,500.00	1,500.00
404	PVC Conduit with bend ,tee and other required assesories	1	LOT	5,000.00	5,000.00
405	CAUTION Board & Sock treatment chart	1	Nos	5,000.00	5,000.00
406	Cable route marker as per Standard drawing TE-IN-STD-G-0327	1	LS	10,000.00	10,000.00
407	Fire extingusher and SAND Bucket with Stand	1	SET	10,000.00	10,000.00
408	Ladder type Cable tray - hot dip Galvanized Prefabricated 450 mm wide	55	MTR.	500.00	27,500.00
409	Perforated type Cable tray hot dip Galvanized Prefabricated 450 mm wide	35	MTR.	500.00	17,500.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Enprocon Enterprise Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
410	Cable Glands				
411	Cable Glands : Flame proof IIA/IIB double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
412	Cables with upto OD 20 mm & above OD 20 mm as per Single line diagram of DT & RT station	1	LOT	50,000.00	50,000.00
413	Cable Glands : Weather proof double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
414	Cables with upto OD 20 mm to 40 mm as per Single line diagram of DT & RT station	1	LOT	25,000.00	25,000.00
415	**Sub-Total Section E**				**81,70,200.00**
416	**SECTION-F [INSTRUMENTATION WORKS]**				
417	**INSTRUMENTATION**				
418	**SUPPLY**				
419	Supply of Pressure Transmitter along with 2 valve manifolds with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	40,000.00	2,00,000.00
420	Supply of Pressure gauge including high range along with 2 valve manifolds with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	18	Nos	40,000.00	7,20,000.00
421	Supply of Pressure gauge including Low Range along with 2 valve manifolds, gauge saver with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	3	Nos	40,000.00	1,20,000.00
422	Supply of temperature element (RTD) along with flanged thermowell mounted for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	40,000.00	2,00,000.00
423	Supply of Temperature Transmitter with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	7	Nos	40,000.00	2,80,000.00
424	Supply of skin type temperature element (RTD) for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I003), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	2	Nos	60,000.00	1,20,000.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Enprocon Enterprise Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
425	Supply of Local control panel with all accessories as per Data sheet (P.017110 G 11087 I011), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, SAT of local control panel,supports/ frame fabrication, earthing and screwing plug for unused entries, painting and integration with RTU. Termination of all Other panel SCADA hard wired signal including RS-485 signals through LCP for RTU/SCADA by Bidder. 1. Digital Barriers 2. Analog Barries 3. Relays 4. three poisition selector switch 5. LED indication lamps 6. Push buttons 7. terminal blocks 8. internal wiring 9. MCBs 10. Door switches 11. cooling Fan 12. LED lights	2	Nos	5,00,000.00	10,00,000.00
426	Supply of Ex-proof junction box with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, iincluding Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.	4	Nos	90,000.00	3,60,000.00
427	Supply of Corrosion Monitoring system with corrosion coupon, Corrosion probe, transmitter and digital indicator (mounted in LCP) as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
428	Corrosion coupon along with accessories.	2	Nos	65,000.00	1,30,000.00
429	Corrosion probe along with transmitter, digital indicator, barriers and accessories.	2	Nos	2,50,000.00	5,00,000.00
430	Supply of Conventional Type Microprocessor based fire detection system along with smoke detector, heat detector, cabinet, manual call point, Independent 24 Hrs battery backup with 15 min in alarm state, repeater panel and Electrical Operated Siren, exit signs and cables fromsensor ,MCP, siren, hooter to controller as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
431	Controller along with cabinet along with cabling	1	Nos	50,000.00	50,000.00
432	Multisensor (smoke & heat)	10	Nos	4,000.00	40,000.00
433	WP IP 65 Manual call points	6	Nos	4,000.00	24,000.00
434	Ex Proof and WP IP 65 Manual call point	1	Nos	8,000.00	8,000.00
435	WP Hooter & Flasher	1	Nos	4,000.00	4,000.00
436	Repeater panel	1	Nos	8,000.00	8,000.00
437	Exist sign	6	Nos	2,000.00	12,000.00
438	Electrical siren Exd	1	Nos	15,000.00	)00.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Enprocon Enterprise Ltd.

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439	24 Hrs battery backup	1	Nos	50,000.00	50,000.00
440	Supply of Conventional type gas detection system along with controller, ex proof point gas detectors, beacon hooter, flasher, , cabinet, portable gas detector, calibration kit, alignment kit as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
441	Controller with cabinet	1	Nos	50,000.00	50,000.00
442	Point gas detectors	12	Nos	5,000.00	60,000.00
443	Panel Mounted hooter	2	Nos	5,000.00	10,000.00
444	Dual tone Hooter & Beacon Ex"d" with reset push button	2	Nos	15,000.00	30,000.00
445	Portable gas detecotrs	1	Nos	5,000.00	5,000.00
446	Calibration kit	1	Nos	15,000.00	15,000.00
447	Ex d Junction Box	2	Nos	15,000.00	30,000.00
448	Supply of Universal type Hand Held Configurators for transmitters with carrying case, rechargeable batteries (one working and one standby), and battery charger as per Data sheet,PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work	1	Nos	1,50,000.00	1,50,000.00
449	Supply of Instrumentation signal cable, control cable, communication cable/LAN cable, Power cables along with all sizes cable glands (WP & Exd), PVC hood, lug, ferrule, etc including Cable laying (buried as well as tray) along with termination, glanding, meggering and loop checking including supply of ferrule, lugs, cable tie, cable clamp, cable marker etc. as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.				
450	1Px 1.5mm2	500	MTRS.	180.00	90,000.00
451	12Px 0.5mm2	900	MTRS.	650.00	5,85,000.00
452	1Qx1.5mm2	30	MTRS.	250.00	7,500.00
453	12Tx1.5mm2	200	MTRS.	800.00	1,60,000.00
454	1Tx1.5mm2	180	MTRS.	200.00	36,000.00
455	6Px0.5mm2	200	MTRS.	250.00	50,000.00
456	2Px1.5mm2	200	MTRS.	150.00	30,000.00
457	Cat 5 (LAN)	160	MTRS.	250.00	40,000.00
458	3C x 2.5mm2	240	MTRS.	350.00	84,000.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
459	Supply & laying of Instruments cable tray with tray cover (Branch Cable tray (50mm x 50mm), Main cable tray 900 mm, cable tray 300mm, cable tray 150 mm.) as per requirement, instruments/ PGD, CCTV/ mounting poles, instrument protection sun sheds, angles, channels, MS plates & all the erection materials and as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including installation of support, cable clamping, installation of tray cover and support painting.	1	LS	50,000.00	50,000.00
460	Supply , installation & laying of tubes and fittings as per requirement and as per PTS-Instrumentation with appendices and Scope of Work C&I. SS 316L TEE (1/2", Class 3000#, Screwed, NPTF, Seamless) ,SS316L GLOBE/BALL VALVE (1/2", Class 800#, Screwed, NPTF, Seamless), SS316L PLUG (1/2", Screwed, NPTM, Hex head, class 3000#), SS316L PIPE NIPPLE (½" NPTM, seamless, schedule #160) Length of the pipe nipple as per requirement, SS316L MALE CONNECTOR (1/2" OD x 1/2" NPTM), SS316L FEMALE CONNECTOR (1/2"OD x 1/2" NPTF), SS316L UNION (1/2" OD), SS316L TUBE (1/2" OD x 0.065" WT), SS316L TUBE (1/4" OD x 0.035" WT)	1	LS	5,00,000.00	5,00,000.00
461	Supply of mandatory spares as per Mandatory Spare (P.017110 G 11075 I001)	1	LS	5,00,000.00	5,00,000.00
462	AT Jharia - Installation of metering skids, metering cabinet under the supervision of skid supplier, cable laying and terminal of cable from skid junction box to metering system cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	5,00,000.00	5,00,000.00
463	At Jharia Installation of gas chromatograph skid, analyser & controller cabinet under the supervision of skid supplier, cable laying and terminal of cable from analyser cabinet to controller cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	5,00,000.00	5,00,000.00
464	At Jharia Installation of H2S & Moisture analyser skids, cabinet under the supervision of skid supplier, laying and terminal of cable from skid field mounted cabinet to LCP/RTU. Including supply of all the required erection, fabrication and civil materials.	1	LS	5,00,000.00	5,00,000.00
465	At SV 28 Spare Input output available in existing RTU, internal wiring at site, field connection, configuration and commissioning., interfacing with LCP and configuration of new parameters in existing RTU, as per Scope of Work.	1	LS	5,00,000.00	5,00,000.00
466	**Sub-Total Section F**				**83,23,500.00**
467	**SECTION-G [TELECOM WORKS]**				
468	Supply Telecommunication system, SDH equipment STM-4 Based SDH Cabinet of (2000H x 800W x 800W along with 100 mm base frame) as per below configuration: - 2*STM-4 + 2*STM-1 + 8FE ports as per PTS-Telecommunication system (P.017110 G 11077 I002), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including erection, testing, integration with existing NMS at Noida, Commissioning and integration with existing telecom system at SV 28 additional SFP of L4.2 for SV 28 connectivity	1	Nos	1,50,000.00	1,50,000.00
469	Supply of CCTV-IP based Fixed colour camera and PTZ colour camera along with power cable, communication cable at each station as per PTS-Telecommunication system (P.017110 G 11077 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work., including erection, testing, integration with existing VMS at Noida, Commissioning and integration with existing telecom system at SV 28				
470	Fixed Camera WP IP65	1	Nos	80,000.00	80,000.00
471	PTZ camera WP IP65	1	Nos	80,000.00	80,000.00
472	Supply of one Analog phones control room, one number in guard room and one number WP IP66 in field safe area as per PTS-Telecommunication system (P.017110 G 11077 I002) , PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work				
472	Analog Phone	2	Nos	8,000.00	00.00

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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474	Analog Phone Ex Proof WP IP 65	1	Nos	12,000.00	12,000.00
475	FXO cards	1	Nos	12,000.00	12,000.00
476	FXS	1	Nos	12,000.00	12,000.00
477	Five pair armoured telephone cable, size 0.5mm2	100	MTR.	80.00	8,000.00
478	AT Jharia- Free issue RTU by GAIL: Transportation from Gail store to site location, installation, cabling from LCP to RTU, commissioning etc. Erection, installation of RTU inside the station control room including supply of all the required erection materials, fabrication and civil works	1	LS	4,00,000.00	4,00,000.00
479	At SV 28 Spare Input output available in existing RTU, internal wiring at site, field connection, configuration and commissioning., interfacing with LCP , cable laying from LCP to RTU, and configuration of new parameters in existing RTU, as per Scope of Work.	1	LS	4,00,000.00	4,00,000.00
480	**Sub-Total Section G**				**11,70,000.00**
	Total of Section A + B + C + D + E + F + G				**12,41,54,230.00**
479	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Total of Section A + B + C + D + E + F + G above	18	percentage	18	2,23,47,761.40
480	Rate of Extended Stay Compensation per month beyond the time schedule and grace period mentioned in Bidding document for reasons solely attribute to Owner (exclusive of GST) Notes:- 1;- Extended Stay Compensation shall be loaded on the quoted price as per evaluation methodology. 2;- In case, no rate for extended stay compensation is stipulated, it will be considered that extended stay compensation is not required by the Bidder and the rates quoted by them shall be valid till completion of works in all respects.	1	Nos	5,00,000.00	5,00,000.00
481	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Extended Stay Compensation at Sl. No. 480 above	18	percentage	18.00	90,000.00
	Grand Total				14,70,91,991.40

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Jaihind Projects Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
				UNIT RATE	TOTAL RATE
1	**SECTION-A (MAIN LINE WORKS)**				
2	**CH.0.00 KM to CH.5.667 KM**				
3	**MAINLINE, PIPING AND MECHANICAL**				
4	PIPELINE LAYING / INSTALLATION Laying/ installation of coated line pipe, associated fittings and accessories, etc. as per specifications, drawings, other provisions of Contract and instructions of Engineer-in-Charge, including but not limited to carrying out the following: "Receiving and taking-over", handling, loading, transportation and unloading of Owner supplied coated and bare line pipes and other Free Issue Materials from Contractor's own stock-yard to Work site including stringing on the pipeline Right-of-Use (ROU), Arrangement of all additional land required for Contractor's storage, Performing the additional survey wherein survey data is not sufficient in the opinion of Contractor, arrangement of working RoU if RoU width is not sufficient for equipment/ vehicle movement etc., access for construction (other than Owner provided ROU; Developing necessary access way to the worksite, including earth filling, levelling, etc.; supply of all materials (except Owner supplied materials), supply of all materials, consumables, equipment, labour, etc.; fabrication, Staking and installation of construction markers, clearing, grubbing, grading (as required) of Right of Use; clearing and grading of ROU; Cutting/ uprooting of shrubs, plants, vegetation within ROU; , Trenching to all depths and to a width to accommodate the pipeline with optical fiber cable (inside HDPE Duct) by excavation in all types of soil (in case of hard rock, additional payment for hard rock breaking will be paid as per separate SOR line item), including additional trenching for seismic and other areas as specified,(Rate for laying of optical fibre cable and HDPE Duct not be included here and same to be quoted against separate SOR item); Carrying out repairs of pipe and coating defects not attributable to Owner; Thorough internal cleaning of all pipes by suitable methods to remove debris, shots, grits etc.; Stringing of line pipes along ROU including providing straw bags, soft padding/sand padding; Aligning, cold field bending, cutting and beveling (as required) of pipes for welding and field adjustments, NDT & NDT of re-beveled area, welding, carrying out destructive & non- destructive testing of welds required as per approved NDT specifications (including radiography) and providing all requisite equipment, labour, supervision, materials, films, consumables etc.; carrying out repairs of weld joints as required, carrying out re- radiography and other non-destructive tests on repaired joints, etc.; Installation of carrier pipe including concrete coated pipes (wherever required).				
5	(Concrete Coating on pipes, covered separately) at all crossings including roads/ canals/ nala/ water crossings etc. (supply and installation of casing pipe by open cut or by Jacking/ boaring method covered separately) including pre-testing as required; Carrying out installation of carrier pipe in the casing pipe at cased crossings; Coating of all field weld joints, long radius bends (fabrication of Cold field bends covered here and fabrication of 6D bends by induction heating covered separately), buried fittings etc.; Supply & Installation of warning tape along the entire length of Pipeline including Crossing. Lowering the pipelines in trench, providing required padding over and around the pipeline with sand/graded material (in rocky areas), backfilling with available approved excavated material and/or other suitable soil (supply and providing of soft soil for pre & post padding in Rocky area); Supply and installation of slope breaker as per specifications and drawings in steep slope areas, wherever required; Carrying out hydrostatic testing including air cleaning, flushing, filling, gauging, pressurization of complete pipeline in various test sections as approved by Engineer-In-Charge to the specified test pressure, providing all equipment, pumps, fittings, instruments, dead weight tester, all types of pigs etc., and services, supervision, labour, consumables, arranging water required for hydrostatic testing including supply of corrosion inhibitor, air, etc. as required, locating of leaks and rectification of defects attributable to Contractor, re-testing after rectification, successful completion of hydro-testing of pipeline (De-watering covered else where in the SOR); including all tie-in(s) with the pipeline/ piping installed by others including cutting of test header, re- beveling as required; Carrying out all temporary, ancillary, auxiliary works and all incidental works required to make the pipeline ready for pre- commissioning; Carrying out EGP for the entire stretch of completed pipeline, Repair of defects recorded during EGP/gauge plate run or otherwise including cutting, beveling, welding, NDT, field joint coating etc.; as applicable, Final clean-up and restoration of right of use including obtaining NOC from respective statutory authorities as required and disposal of debris and returning all surplus material to designated disposal areas/storage yard, as directed by Engineer-In-Charge; Restoration of land, facilities and boundary wall etc. at associated facilities dismantled/damaged by the Contractor during construction; Obtaining work permits/ NOC from various statutory authorities having jurisdiction and complying with all stipulation/conditions/recommendation of the said authorities; Preparation of as-built drawings, pipe-book and other records. SOR shall be read in conjunction with Project drawings, scope of work, specifications, standards and other provisions of contract document. The work includes the Survey data & site preparation, Stringing/Chainges in direction, Beveling of pipe element, Welding Procedure Qualification & Welders Qualification, Welding of pipe element, Inspection & testing of production welds, Field joint coating, controlled blasting, chiseling, etc., Material hand over & material handling, Lowering-in & ballasting, All crossings except HDD as mentioned in Crossing List (including installation of carrier pipe inside the Casing at cased crossing), Backfilling (for all depths in all types of soil, soft /hard rock), including trench padding with sand, graded earth in rocky areas & rock shield(if required as per specs) reinstatement				
6	All above works shall be executed in accordance with scope of work, GTS, PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. 1. Supply and Installation of OFC and HDPE Ducts along the entire pipeline route, adjacent to the new pipeline, along with all required accessories, fittings and associated items, is covered separately in the SOR. All above works for buried pipeline (including hook-up pipeline from Tap Off Point inside ONGC GCS, Jharia upto proposed plot for GAIL DT), as per following details :				
7	ND 8", API5L X60 - 6.4 mm	4250	M	1,650.00	70,12,500.00
8	ND 8", API5L X60 - 7.1 mm	1588	M	1,800.00	[illegible]400.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Jaihind Projects Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
9	Concrete slabs (Mechanical Protection) as per technical specifications Supply, fabrication and installation of reinforced concrete weights. Reinforced steel size should be 8 mm. top and bottom at a rate of 200 mm c/c of precasted RCC 1:2:4 on pipeline of wall thickness of 75 mm thick and size as per specifications & Standard drawings and instructions of Owner/ Owner's representative including supply of consumables, materials, equipment, labor, supervision, all associated civil works.	110	M	2,000.00	2,20,000.00
10	Continuous Concrete Coating Supply of all consumables and materials, equipments, manpower, submission of application procedure with calculations for anti-buoyancy, design mix procedure qualification and application of continuous concrete weight coating thickness mentioned below (higher also, in case design requirements) on pipeline of all thickness, concrete weight coating of the field joints thereof, and performing all works as per specifications and instructions of Owner/Owner's representative and other provisions of CONTRACT DOCUMENT.				
11	25 mm thick	12	M	3,000.00	36,000.00
12	30 mm thick	12	M	3,500.00	42,000.00
13	GEO TEXTILE BAGS FOR ANTI-BUOYANCY				
14	Additional works over and above item no. 4 to 8 for design, manufacture and supply of Non-biodegradable geo-textile bags and installation of geo-textile bags duly filled with gravel/ stone ballast on pipelines of all wall thicknesses for anti-buoyancy, drawings, scope of work and instructions of Engineer-in-Charge and other provisions of the Contract document.				
15	ND 8" (for all thicknesses)	12	M	500.00	6,000.00
16	Permanent Markers Supply, fabrication and installation of following types of permanent markers along the pipeline route including all associated civil works such as excavation in all types of soil, construction of pedestals and grouting with concrete, clearing, supply & application of approved color and quality of primer and paint, stencil letter cutting for numbers, direction, chainage, etc. restoration of area to original condition and performing all works as per drawings, specifications and instruction of Owner/Owner's Representative.				
17	Pipeline Warning Signs	14	Nos	9,000.00	1,26,000.00
18	Right-of-way boundary markers	22	Nos	1,600.00	35,200.00
19	Kilometer Markers	4	Nos	9,000.00	36,000.00
20	Aerial Markers	1	Nos	12,500.00	12,500.00
21	Directional Markers	69	Nos	8,500.00	5,86,500.00
22	Repair of Defects in Pipe Coating (Attributable to OWNER)				
23	Repair of Line Pipe Coating: Supply of all coating repair materials as per the requirements of the relevant specifications, supply of all consumables, utilities, equipment, and all manpower required, pipe cleaning and surface preparation, repairing of coating defects (resulting in holiday in coating) and testing including all handling, transportation, etc. for line pipes, performing all works necessary for the completion of the works strictly in accordance with the relevant specifications and instructions of OWNER.				
24	Repair of Holidays in Coating	20	Nos	500.00	10,000.00
25	Repair of Cosmetic Defects in Coating: Description of same as in item no 23 above, but for repair of cosmetic defects in coating.	30	m3	50.00	1,500.00
26	**Repair of Defects in Line Pipes**				
27	Repair of OWNER supplied pipes of all wall thicknesses, recorded at the time of taking-over by CONTRACTOR at all places of work.				
28	Cutting and rebevelling	15	Nos	1,500.00	22,500.00
29	Jack out method	15	Nos	1,000.00	15,000.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL**	**Rev.00** **Date-11.02.2022**
		Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**

M/s. Jaihind Projects Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
30	All works for locating burst (occurred during hydrostatic testing and tightness test attributable to Owner issued materials) including detecting burst, necessary repairing/replacing defective pipe lengths, including cutting out and removing the defective pipe, pretesting the replacement pipe, welding of replacement pipe into mainline and NDT of welding, repair and re-testing of defective welds, coating of welded joints, cleanup, retesting including providing all labor, materials, consumables and inputs other than OWNER supplied materials and performing all works as per drawings, specifications and directions of Owner/ Owner's representative. In case of pinhole leaks not easily detectable all works for locating leak (occurred during mechanical resistance test and tightness test attributable to Owner issued materials) including detecting leak, The Payment will be made as per actual efforts and based on Equipment and manpower Rate provided in SCC . Further replacement & retesting will be paid as above.	2	Per burst	45,000.00	90,000.00
31	LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER) (FOR TERMINAL PIPING) LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER DUE TO FIM) All works for leak/burst (occurring during hydrostatic testing) by necessary repair/replacement of defective pipe length, including cutting and removing out defective pipes, welding, NDT of welds, repair and re-testing of defective welds, painting of welded joints, clean-up, re hydro testing of the pipe segment including providing all necessary equipment, labour, materials, consumables and inputs other than Owner supplied materials and performing all works as per drawings, scope of work, specifications, standards enclosed with the Contract and directions of Engineer-in-Charge. Note: 1. This rate shall be applicable for manufacturing defects in Company supplied materials only.	6	Inch-meter	35,000.00	2,10,000.00
32	IDLE TIME PRESERVATION OF PIPELINE Preservation of complete pipeline and associated facilities and its maintenance including supply of all consumables, all equipment, man- power, etc., complete as per the requirements of specifications, scope of work, standards, other provisions of Contract document and instructions of Engineer-in- Charge. By filling and pressurizing with nitrogen including supply and maintenance of nitrogen as per following details:				
33	Pipe OD - 8 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - 3 MONTH	6030	M	20.00	1,20,600.00
34	Pipe OD - 8 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - FOR EVERY ADDITIONAL MONTH BEYOND INITIAL 3 MONTHS	6030	M	25.00	1,50,750.00
35	**PRE-COMMISSIONING FOR NATURAL GAS PIPELINES SYSTEM, Carrying out pre-commissioning activities and pre-commissioning checks to the specified acceptance criteria, making the entire pipeline system ready for commissioning (It includes cleaning including magnetic cleaning, Electrical Geometrical Pigging survey, dewatering, swabbing,, pre-drying activity, Golden-tie ins connecting the stations),, supply of all equipment, man-power, consumables, including all type of pigs and required quantity of nitrogen, materials for all temporary works and performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.**				
36	Pipe OD - 8 INCH	6030	M	20.00	1,20,600.00
37	**Commissioning Assistance**				
38	OVERALL COMMISSIONING OF ENTIRE PIPELINE SYSTEM Overall commissioning including system checks, inertisation (as required) and charging of entire pipeline system, including all stations and all associated facilities including notifying the Company that the pipeline system is ready for commissioning; Review of status jointly with the Company and obtaining final clearance for start of commissioning; Development and submission of commissioning procedures, obtaining Company approval thereupon, carrying out overall commissioning of the total pipeline system including all facilities and all necessary coordination/ liaison with other Contractor(s) operations; Carrying out commissioning; Supply of all equipment like Nitrogen vapourisers (as required), along with all piping and instruments, temporary venting/ flaring/draining facilities as applicable, man-power, consumables including pigs and required quantity of Nitrogen (as required); Performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.				
39	Pipe OD - 8 INCH	6030	M	20.00	1,20,600.00
40	PIPELINE INFORMATION MANAGEMENT SYSTEM Providing pipeline information management system using web based software for monitoring pipeline construction progress and providing all "As Built" data & drawings for entire length of pipeline as per specifications enclosed with the tender document.	1	LS	38,00,000.00	38,00,000.00
41	VIDEO FILM & PHOTOGRAPHY OF CONSTRUCTION ACTIVITIES Preparation of high resolution video films with audio commentary and Industrial photography covering all aspects/activities of pipeline construction annotated as required, conversion of same to video DVD/Blue Ray format, submitting three (3) sets of the same as per details in scope of work document	1	LS	2,00,000.00	2,00,000.00
	FABRICATION OF LR BENDS :				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Jaihind Projects Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
43	Fabrication of 6D bend / LR (Induction) bends as per the relevant standard & Specification attached with the tender document from free issue linepipes (mother pipe) including but not limited to the following: "Receiving and taking over of free issue linepipes" from GAIL Dump Yard location as mentioned in Scope of Work, carrying out inspection of line pipe at the time of receive taking over in the presence of Company representative, carrying out repair of pipe defects attributable to Contractor after taking over, including supply of consumables & equipments; handling, hauling, transportation and loading/unloading required to transport the mother pipes between place of issue, LR bend fabricator/ manufacturer, intermediate storage as required, and final delivery of fabricated LR Bends to the worksite(s), as per requirement, Manufacturing/ fabricating of LR Bends, as per project requirements and Specifications. LR bends exact angle(s) shall be as per pipeline alignment. Note:- 1. Rate for repairing of defects in linepipes identified and recorded at the time of receiving & taking over i.e. defects attributable to Company shall be quoted separately in the applicable items of the SOR. 2.Loading of Pipe into installation contractor trailer shall be carried out by the GAIL Dumpyard maintenance agency already engaged by the Company.				
44	Bare Pipe ND 8", API5L X60 - 6.4mm	8	Nos	85,000.00	6,80,000.00
45	Bare Pipe ND 8", API5L X60 -7.1 mm	15	Nos	85,000.00	12,75,000.00
46	**SUPPLY AND INSTALLATION OF CASING PIPE & 6 INCH CS CONDUIT:** Supply and installation of casing pipe and 6 inch CS conduit for OFC by jacking / boring or open cut for rail, road or canal crossings wherever required in all types of soils and terrain separately for carrier pipes and fibre optic cable inside HDPE duct, supply of casing pipes and all other Contractor supplied materials viz. casing insulators and casing end seals as per enclosed drawing, materials for casing vents and drains, etc. including transportation, supply of all other materials, equipments, consumables, man-power, welding including visual inspection of all weld joints, installation of casing insulators, end seals, vents and drain-off pipes, backfilling and restoration as original of the facility crossed and performing all works as per drawings, specifications including PTS and GTS and instructions of Engineer-in Charge and provisions of Contract document.				
47	Supply and installation of Casing pipe by Boring / Jacking as per item no. 46 (Railway crossing) Casing Pipe Details: (Pipe 14" , 8.7 mm Thick, API 5L GR.B)	200	M	16,500.00	33,00,000.00
48	Supply and installation of Casing pipe by Boring / Jacking as per item no. 46 (Other than Railway Crossings) Casing Pipe Details: (Pipe 14" , 6.4 mm Thick, API 5L GR.B)	12	M	16,500.00	1,98,000.00
49	Supply and installation of 6 inch CS Conduit by Boring/Jacking as per item no. 46 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	200	M	9,500.00	19,00,000.00
50	Supply and installation of Casing pipe by open cut as per item no. 46 Casing Pipe Details: (Pipe 14" , 6.4 mm Thick, API 5L GR.B)	12	M	13,000.00	1,56,000.00
51	Supply and installation of 6 inch CS Conduit by open cut as per item no. 46 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	12	M	6,500.00	78,000.00
52	**HDD CROSSING**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
53	**Generalities**				
54	Topographic / Bathymetry, Geotech Investigation and Hydrological data collection				
55	Site preparation				
56	Design & stress calculations as per requirement				
57	Material hand-over and material handling				
58	Site reinstatement				
59	Final dossier including all notes & calculations as required in the specification				
60	***Installation of 6 inch CS Conduit***				
61	Teletransmission--Separate Drilling for 6 inch CS Conduit for OFC installation				
62	Installation of HDPE duct & OFC cable inside 6 inch CS conduit				
63	Drilling & Pulling of 6 inch CS Conduit shall be done before mainline HDD.				
64	***Pipeline string***				
65	Beveling & welding				
66	Inspection & testing of welds				
67	Field joint coating				
68	Temporary support (roller)				
69	Control of pipeline string				
70	Hydrotesting & leak test				
71	***Drilling operation***				
72	Earthwork entry / exit points including grading erection of embankment etc..				
73	Supply & clearing out of all material needed for drilling				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
74	Drilling of washer pipe, reaming & cleaning of drill opening, supply and preparation of bentonite				
75	Pull back of the pipe string				
76	Disposal of surplus of soil & bentonite				
77	Control of the integrity of the coating				
78	***Work at entry point***				
79	Changes in direction				
80	Beveling & welding				
81	Inspection & testing of welds				
82	Field joint coating & coating of all bare section of pipe				
83	Earthwork				
84	Lowering-in				
85	backfilling as required				
86	***Work at exit point***				
87	Changes in direction				
88	Beveling & welding				
89	Inspection & testing of welds				
90	Field joint coating & coating of all bare section of pipe				
91	Earthwork				
92	Lowering-in				
93	backfilling as required				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**			**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL**	**Rev.00** **Date-11.02.2022**
				Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**
M/s. Jaihind Projects Ltd.					
S. NO.	**WORK DESCRIPTION AND SUPPLY**	**UNIT**	**QTY**	**PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR**	
94	Complete work for the water/ Road/ Rail crossings, including taking over and handling of linepipes from Contractor Storage Yard to worksite, Arrangement of all additional land required for Contractor's storage, fabrication, access for construction; construction design calculation and engineering of the crossing, mobilization and demobilization at site(s), supply of all materials as per "Scope of Supply" and all consumables, equipment, manpower and other resources, and acquiring the required land for site preparations, and execution of, but not limited to, the following works in accordance with specifications, drawings, and as per provisions of the Contract document and instructions of the Company/ Engineer-in- Charge: Carry out all surveys required for collecting data relevant to design and construction of the crossing, preparation of all necessary construction drawings for Company's approval as per the provisions of the Contractor document, Preparation of detailed construction method statement and calculations including Scour Depth calculations for river/ canal crossings, Strings preparation including welding, 100% Radiography of welds, NDT of welds and re-beveled areas, radiography, weld repair and re-test, pre-testing of completed string, corrosion coating of field joints with Dirax or equivalent, inspection of corrosion coating and repair of defects, Preconstruction surveys and collection of all necessary data, Installation of pipeline and CS conduit (6 Inch CS Conduit shall be installed through Seperate Drilling) , horizontal directional drilling to the correct profile as per approved drawings and specification, Post-installation hydrotest including leaks and repair of defects and retesting, etc. for defects attributed to Contractor's faulty work, Supply, fabrication and construction of protective fencing as required, Hydrotesting, Supply, fabrication and erection of pipeline markers, Restoration and clean-up etc., Preparation of as-built drawings and other records etc., All other works not specifically listed herein, but required as per specifications, drawings, provision of contract document, calculations, and construction method statements, leading to successful completion of works.				
95	Linepipe details:- (Pipe 8" dia, Wall Thickness: 7.1 mm, Pipe Grade: API 5L GR.X-60 PSL 2, External Coating: 3LPE) CS Conduit details: (Pipe 6" dia, 6.4mm Thick, API 5L GR.B) Note: 1. CS Conduit shall be supplied by the Contractor. Radiography & Hydrostatic testing is not required to be done for CS Conduit. (6 Inch CS Conduit shall be installed through Seperate Drilling) Contractor shall quote accordingly. 2. The rate shall be applicable for the drilled length of the HDDs. All above works shall be executed in accordance with scope of work, GTS,PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. This line item is applicable for HDD crossing mentioned in the Crossing List with prior approval of Engineer - In-Charge during Construction.	192	M	10,500	20,16,000.00
96	**SUPPLY & INSTALLATION OF OPTICAL FIBBE CABLE AND HDPE DUCT**				
97	Suppy of 24 Fibre Composite armoured Optical Fibre Cable drum (6 fibre G-655 & 18 fibre G-652) of 4 km +/-5% Cable drum length with fiber terminal closure, inspection chamber, electronic route marker all along pipeline route, Two number electronic locater as per PTS-Optical Fibre cable and Scope of Work C&I along with all required accessories and fitments not mentioned seperately.	7000	M	75	5,25,000.00
98	Inspection/Jointing Chamber (fabricated or readymade)	3	Nos	7,500	22,500.00
99	Blowing Pit (fabricated or readymade)	7	Nos	12,500	87,500.00
100	Supply of jointing closure 24 Fiber, 2 way including all accessories (3M, Siemens, Reychem make only)	3	Nos	5,000	15,000.00
101	Supply of End to End OFC termination of wall mounted FTC with pig tails other accessories for termination of OFC - 24 Fibre in the Telecom Room at Jharia & SV28	2	Nos	12,500	25,000.00
102	Electronic marker	3	Nos	2,500	7,500.00
103	Electronic Locator	1	Nos	4,20,000	4,20,000.00
104	Supply of 50mm OD permanently lubricated HDPE telecom duct along with all the required accessories as per PTS-Optical Fibre cable and Scope of Work C&I	7000	M	70.00	)00.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Jaihind Projects Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
105	Laying of HDPE Duct : Laying of 50mm HDPE Ducts in same pipeline trench direct buried, or inside 6 inch CS conduit at various crossings as per Specification in all type of soil & terrain, excavated as required, padding, backfilling, etc. including supply of accessories required for HDPE Duct installation, including plastic couplers, end plugs, cable sealing plugs, end caps, etc. suitable & sufficient for above supplied ducts, cleaning and sealing of ducts at the end laid drum lengths, preparation and supply of cable blowing pit at each Km jointing of HDPE duct, testing of HDPE Duct and accessories after laying preparation of report and final drawing and documents as per specification, joint location marking, erection accessories, as-built, etc.	7000	M	25.00	1,75,000.00
106	Blowing of Optical Fibre Cable inside HDPE Duct : All activities pertaining to Blowing of Optical Fibre Cable in same pipeline trench directly (after testing drum at site), inside HDPE duct along the pipeline and at crossing, sealing using all materials required as per specification	7000	Nos	30.00	2,10,000.00
107	Installation of FTC & Wire mesh, termination of OFC on FTC / DDF inside telecom room, splicing with steet fibre, fibre test, OTDR test, power testing of laid OFC, identification of fault, rectification, earthing, final testing and commissioning, preparation of reports, etc. work complete in all respect with all necessary accessories for all location till final Handing Over and Taking Over by Owner of laid OFC.	1	LS	5,000.00	5,000.00
108	**TRANSPORTATION OF COATED AND BARE LINEPIPES FROM GAIL DUMPYARDS (ANY LOCATIONIN INDIA) TO CONTRACTOR STORAGE YARD:**				
109	"Receiving and taking over" of "free issue" Linepipes from GAIL Dump Yard location (any location in India); Carrying out inspection of Linepipes at the time of receiving and taking-over, recording of pipe & coating defects at the time of taking over in the presence of Company's representative, carrying out repair of coating defects & pipe defects attributable to Company; including supply of materials, consumables & equipments; handling, hauling and transportation from designated place of issue to Contractor Storage Yard; unloading and stacking of the linepipes at Contractor Storage Yard; including arranging all equipments, trailers, trucks & manpower; all works as per Scope of Work, drawings, PTS, GTS and other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, Provision of Contract & instructions of Engineer InCharge.				
110	Linepipe Details:- Coated and Bare Line Pipe 8" diameter API 5L Gr. X-60 PSL-2 Wall Thickness - 6,4mm / 7.1mm External Coating - 3LPE, Internal Coating - Liquid Epoxy 1) Loading of Pipes into Installation contractor's trailer shall be carried out by the contractor. 2) Development & Maintenance of Contractor Storage Yard adequate to store the linepipes including arrangement of all Lifting & Handling equipment at Contractor's Storage Yard shall be done by the Contractor. Rate for the same shall be quoted in applicable items. 3) Rate for repairing of coating defects in linepipes identified and recorded at the time of receiving & taking over i.e. coating-defects attributable to Company shall be included in this item. 4) Rate for repairing of pipe-defects identified and recorded at the time of receiving & taking over i.e. pipe-defects attributable to Company shall be quoted separately in the applicable items of the SOR. 5) Transportation of line pipe from Contractor's Storage Yard to work site is included in SOR item 1 above, No separate payment will be applicable for the same.	350000	Ton-Km	50.00	1,75,00,000.00
111	TRANSPORTATION OF FREE ISSUE PIPING ITEMS (OTHER THAN LINE PIPE) FROM GAIL STORAGE YARDS (ANY LOCATION IN INDIA) TO CONTRACTORS YARD / WORKSITE(S) : "Receiving and taking-over", handling, lifting, loading, transportation and unloading of Company supplied "free-issue materials" (Other than line pipe) viz. Metering Filtering and PRS Skid, Scrapper Launcher/ Receiver & accessories, Valves with or without Actuators, Insulation Joints, Flow Tee, Pig Signallers, fittings, flanges etc. from GAIL Storage yards location (any location in India) to Contractor's Storage Yard / work-site(s). Note:- 1) Location of GAIL Storage Yard shall be anywhere in India. Contractor shall quote accordingly. 2) Transportation of FIM from Contractor's Storage Yard to work site, is included in SOR item 119 below, No separate payment will be applicable for the same.	24000	Ton-Km	30.00	7,20,000.00
112	**DEVELOPMENT OF CONTRACTOR STORAGE YARD:**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
113	Development of the Contractor Storage Yard including fencing, illumination etc., including deployment of all lifting and handling equipments, manpower required to stack, unload and load all Free Issue Material (FIM) including Line Pipes and all bought out items, as required; storage of all Free Issue Material and bought out items for the required duration as per project requirement, all works as per Scope of Work, drawings, other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, PTS, GTS and Provision of Contract & instructions of Engineer In-Charge. The storage yard shall be used for storage of all Free Issue Line pipes, all other Free Issure Material (FIM) and all bought out items required for the project. Notes:- 1) Development of contractor storage yard adequate to store all the material required for Project, including all Free Issue Material (FIM) and bought out items. (Rate for the same shall be captured in this item) 2) Maintenance of contractor storage yard for the entire project period is included in the scope of contractor. No separate payment shall be applicable for the same.	1	LS	3,00,000.00	3,00,000.00
114	Hard Rock breaking by controlled blasting / chiseling method (rate will be applicable in case when prior approval for rock breaking is obtained by the contractor from GAIL / PMC)	50	M3	1,200.00	60,000.00
115	Clean Agent Fire Supression System as per Scope of Work	1	LS	54,50,000.00	54,50,000.00
116	Restoration of underground utilities (pipes & cables) during excavation at ONGC, GCS Jharia and Receiving Station (which is inside SV-28 Premises)	5	Nos	5,000.00	25,000.00
117	**Sub-Total Section A**				**5,14,73,150.00**
118	**SECTION-B [MECHANICAL (PIPING & TERMINAL WORKS)]**				
119	**PIPING WORKS AT DESPATCH AND RECEIVING STATIONS AND HOOK-UP WITH ONGC GCS, JHARIA** All works for installation of all piping at all elevations for Despatch and Receiving Stations as indicated in Drawings, Scope document, including supply of all consumables, Gaskets, nuts, bolts Studs, manpower, materials and equipment (except Company supplied free-issue materials), aligning, grouting, tie-in with pipeline and carrying out all mechanical works of underground and above ground piping including fabrication, welding, installation of all pipes, valves (manual & actuated), flanges, fittings, flow tees, pig signalers, insulating joints, corrosion monitoring probes /corrosion coupons, installation of instruments (pressure/temperature gauges, vents, drains-off, safety relief valves, electro hydraulic valves etc.) as indicated in P& IDs and GADs. 100% Radiography of weld joints of piping above 1.5 inch, Magnetic particle & Die penetration test for piping 1.5 inch & below, all NDT of welds, weld repairs/retesting, hydrostatic testing, cleaning/flushing, functional testing, de-pressurizing , Drying and dewatering, cutting and re-beveling (as required), hookup of all pipeline/utilities at the battery limit with the pipeline/utilities installed by others, obtaining all statutory clearances, approvals and permissions for the work (wherever required), excavation and filling in all types of soils including soft/hard rock for installation of piping/ pipe supports; corrosion coating and external painting (as required), finishing, clean-up and restoration of site, preparation of as- built drawings, documents and project records and performing all works as per drawings, specifications, other provisions of Contract document and instructions of Engineer-in-Charge. Civil/ structural works for piping supports will be paid separately as per unit rate provided elsewhere in the contract. Cost of Transportation of all materials (Including FIM mentioned above) for station works, from Contractor's own stock-yard to Work site, to be included in this SOR item. No separate payment will				
120	Fabrication and Erection of piping as per item no.110, (For Pipe Size 2 Inch and above, 100% Radiography) Note: 1. Rate for Handling, Fabrication and erection of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item. Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor.Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes 2" & above, shall also be part of this item. Contractor shall quote accordingly.	1500	INCH DIA METER	800.00	12,00,000.00
121	Fabrication & Erection of Piping as per item no. 110 (For Pipe Size Below 2 inch, Magnetic particle & Dye Penetration Test as per the requirement of specification) Note: 1. Rate for Handling and installation of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item.Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor. Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes below 2", shall also be part of this item. Contractor shall quote accordingly.	50	INCH DIA METER	650.00	32,500.00
122	Painting of Piping (Pipe, Fittings, Flanges, Valves, Equipments, etc.) as per item no. 110	1550	ICH METER	300.00	4,65,000.00

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M/s. Jaihind Projects Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
123	Hydrostatic testing, cleaning / flushing, functional testing, de-pressurizing, dewatering & drying of Piping as per item no. 110 (for all size upto 10").	1550	ICH METER	50.00	77,500.00
124	**INSTALLATION OF COMPANY SUPPLIED FIM (FML SKID AND PIG LAUNCHER/RECEIVER SYSTEM) AT DESPATCH TERMINAL AND RECEIVING TERMINAL**				
125	Installation of Company supplied Filtering, Metering and PRS Skid and Scrapper Launcher/ Receiver with accessories, at stations including all handling and installation works; as per drawings, specifications enclosed with the Contract and directions of Engineer-in-Charge. Cost of Transportation of above Free issue items, from Contractor's own stock-yard to Work site for station works, to be included in this SOR item. No separate payment will be applicable for the same.	1	LS	6,50,000.00	6,50,000.00
126	**CONTRACTOR SUPPLIED ITEMS:(Supply of Items as per attached PTS,GTS,Data Sheet,QAP and PMS)**				
127	**Station pipe -Seamless**				
128	1" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, PE, SEAMLESS	6	METER	1,250.00	7,500.00
129	2" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	90	METER	1,500.00	1,35,000.00
130	4" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	135	METER	3,500.00	4,72,500.00
131	8" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	50	METER	6,500.00	3,25,000.00
132	8" pipe, 6.4mm thk, ANSI B 36.10, API5L X 60, BE, HFERW/SEAMLESS	29	METER	6,500.00	1,88,500.00
133	10" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	12	METER	7,850.00	94,200.00
134	**Supply of Fitting & Flanges**				
135	1 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 350 LF2,CL1, BW, ANSI B16.25	4	Nos	600.00	2,400.00
136	2 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25.	3	Nos	600.00	1,800.00
137	1" WNRF FLANGES, 6C1, SCH. 160 / 600#, WNRF, B-16.5, ASTM A350 LF2, CL1, BW-ANSI B16.25 RF	4	Nos	800.00	3,200.00
138	8", WNRF FLANGES, 6C2, 6.4 thk/ 600#, WNRF, B-16.5, ASTM A694 F60 OR EQUIVALENT, CL1, BW-ANSI B16.25 RF.	5	Nos	8,500.00	42,500.00
139	1", BLIND FLANGES, 6C1, 600#, RF, B-16.5, ASTM A350 LF2, CL1, RF	4	Nos	650.00	2,600.00
140	3/4" EQUAL TEES, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25,	1	Nos	850.00	850.00
141	3/4", CUP THREADED 6C1, 6000#, ANSI B16-11, ASTM A 350 LF2, CL1 , BW - ANSI B16.25, ANSI B1.20.1,	3	Nos	500.00	1,500.00
142	**WELDOLETS (MAINLINE x BRANCH SIZE)**				
143	4" x 1", WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1 ,	2	Nos	3,500.00	7,000.00
144	8" x 2" WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 6.4 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 694 F60	13	Nos	4,000.00	52,000.00

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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145	8" x 2", WELDOLETS (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	26	Nos	4,000.00	1,04,000.00
146	**GASKETS**				
147	GASKETS, 6C1, 600#, RF, ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 1"	12	Nos	350.00	4,200.00
148	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 2"	210	Nos	400.00	84,000.00
149	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 4"	30	Nos	800.00	24,000.00
150	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 8"	47	Nos	1,000.00	47,000.00
151	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 10"	2	Nos	1,200.00	2,400.00
152	**NIPPLES**				
153	NIPPLES, 6C1, Sch 160 /600#, ANSI B 36.10, ASTM A333 GR.6, BOTH ENDS PLAIN, SEAMLESS-LG=100mm, 3/4"	12	Nos	800.00	9,600.00
154	NIPPLES, 6C1, Sch 160 / 600#, ANSI B 36.11, ASTM A333 GR.7, ONE END THRD -MNPT SEAMLESS- LG=100mm, 3/4"	8	Nos	1,200.00	9,600.00
155	**INSULATING JOINT**				
156	INSULATING JOINT 6C,16.4 mm (X60) x 600# ,MANUFACTURER STANDARDS ,ASTM A694 F60 ,BW - ANSI B16-25, 8"	2	Nos	1,50,000.00	3,00,000.00
157	**Supply of following Valves as Per attached PTS,GTS,Data Sheet,QAP,PMS & MTO**				
158	1",BALL VALVE - FULL BORE (RF) (ABOVE GROUND),6C1	6	Nos	5,000.00	30,000.00
159	3/4", CHECK VALVE (RF) (AG), 6C1	2	Nos	4,000.00	8,000.00
160	3/4",NEEDLE VALVE, 6C1	5	Nos	5,000.00	25,000.00
161	**Note (Applicable for all items of SOR Item No 126 to 160):** **1. Before procurement of any of the above materials Contractor will take prior approval from GAIL / PMC.** **2. Payment will be made for actual quantity used.**				
162	**Sub-Total Section B**				**44,09,350.00**
163	**SECTION-C [CIVIL / STRUCTURAL & ARCHITECTURAL]**				
164	**CIVIL , STRUCTURAL & ARCHITECTURAL**				
165	**Earthwork excavation in soil**				
166	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	1770	cum	212.00	3,75,240.00

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167	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth beyond 1.5m and upto and inclusive of 3.0m including Removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	50	cum	235.00	11,750.00
168	**Earthwork excavation in soft rock**				
169	Earth work in EXCAVATION below ground level for all kinds of works in SOFT ROCK and HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as irected including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	130	cum	302.00	39,260.00
170	**Backfilling after execution of work**				
171	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps within a LEAD OF 100M,including re-excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/ mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	580	cum	134.00	77,720.00
172	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps beyond a LEAD OF 100M AND UPTO & INCLUSIVE OF 500M including re- excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	250	cum	156.00	39,000.00
173	**Transporting & Disposing the SURPLUS EARTH AND DEBRIS**				
174	Transporting and disposing the SURPLUS EARTH AND DEBRIS including shrubs and vegetations from construction areas to areas ANYWHERE OUTSIDE THE PLANT BOUNDARY, including re-excavating the deposited soil excavated earlier, loading, transportation, unloading, laying at all depths and heights, stacking,levelling and dressing both the area (viz. from where the earth is transported and where it is deposited) to required levels and slopes complete with all lifts as directed. For carting on the basis of truck measurements (volume of truck reduced by 30% for voids). DISPOSAL AREAS OUTSIDE PLANT BOUNDARY TO BE ARRANGED BY THE CONTRACTOR. Royalty as applicable for disposal outside plant limits to be borne by the Contractor	760	cum	123.00	93,480.00
175	**EARTH WORK FILLING BY EXCAVATION**				
176	EARTHWORK IN FILLING by excavating the earth from BORROW AREAS arranged by CONTRACTOR for all leads, transporting the earth from borrow area including cleaning & stripping the earth at borrow areas, breaking clods, loading, unloading and laying at all depths and heights in layers of thickness not exceeding 15 cms., watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% of the maximum laboratory dry density, ressing, trimming, levelling the top surface etc. in foundations, plinths, trenches etc. all complete.	4725	cum	504.00	23,81,400.00
177	**PLAIN & REINFORCED CEMENT CONCRETE: (REFER SPECIFICATION NO. (Z/02/0004)**				
178	**PLAIN CEMENT CONCRETE - PCC**				
179	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:4:8 (1 cement : 4 coarse sand (Zone-III) : 8 graded stone aggregate 40 mm nominal size)	105	cum	6,944.00	7,29,120.00
180	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:3:6 (1 cement : 3 coarse sand (Zone-III) : 6 graded stone aggregate 40 mm nominal size)	20	cum	7,728.00	1,54,560.00
181	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:2:4 (1 cement : 2 coarse sand (Zone-III) : 4 graded stone aggregate 20 mm nominal size)	120	cum	8,512.00	1,40.00

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182	Providing and laying PLAIN CEMENT CONCRETE for all depths below and upto plinth level in foundations, drains, fillings, non-suspended floors, pavements & ramps or any other works etc. including shuttering, tamping, ramming, vibrating, curing, etc. all as specified in any shape, position, thickness and finishing the top surface rough or smooth as specified and directed all complete for concrete grade M20 with 20mm and down size graded crushed stone aggregates/Gravels. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR	110	cum	10,304.00	11,33,440.00
183	**RCC WORKS**				
184	**SUBSTRUCTURE**				
185	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUBSTRUCTURE INCLUDING CENTERING & SHUTTERING) e.g. foundations, raft, beams, pile caps, Retaining walls, counterforts, buttresses, pedestals, pipe sleepers, columns, suspended floors, staircases, landings, steps, brackets etc., including equipment/ machine foundations & pedestals viz. compressors, generators, etc. (including single pour concreting as specified on the drawing), applying cement wash on concrete surface (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering, etc., wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT)for all depths below and upto plinth level in any shape, position and thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	615	cum	11,424.00	70,25,760.00
186	**SUPER STRUCTURE - EXCLUDING CONTROL ROOM BUILDING, GUARD ROOM & BOUNDARY WALL**				
187	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUPER STRUCTURE INCLUDING CENTERING & SHUTTERING in suspended floors, slabs, beams, columns, walls including counterforts, staircases, landings, steps, facias, fins, mouldings, gutters, shelves, window sills, canopies, lintels, girders, ducts, brackets, chajjas with drip moulds, pedestals, posts, struts, equipment/ machine foundations, ramps etc. (including single pour concreting as specified on the drawing), providing cement wash (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT) FOR ALL HEIGHTS UPTO & INCLUSIVE OF 20 m ABOVE PLINTH LEVEL in any shape, position, thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	70	cum	12,880.00	9,01,600.00
188	**CONTROL ROOM BUILDING (SUPERSTRUCTURE)**				
189	Construction of Control Room Building as per drawings and specification. Building work for all Superstructure works INCLUDING CENTERING & SHUTTERING , Reinforcement , masonry work, partition wall, Plastering & pointing, flooring, Floor finishes, Door & windows, rolling shutter, false ceiling, all finishes, painting, roof treatment complete in all respect etc.)	215	m2	19,040.00	40,93,600.00
190	**GUARD ROOM (SUPERSTRUCTURE)**				
191	Guard Room as per drawings and specification. Building work for all superstructure works including (Reinforcement, masonry work Plastering & pointing, flooring, Floor finishes, Door & windows, painting, roof treatment, all finishes, water supply and sanitary work complete in all respect etc.)	17	m2	19,040.00	3,23,680.00
192	**HYD Bars / MS Bars**				
193	Supplying and placing in position HIGH YIELD STRENGTH DEFORMED STEEL BARS REINFORCEMENT of Grade Fe500D TMT conforming to IS:1786, for RCC work (excluding control room building & Guard room & boundary wall superstructure) including transporting the Steel, straightening, cleaning, decoiling, cutting, bending to required shapes and lengths as per details, binding with 18 SWG black soft annealed binding wire at every intersection, supplying and placing with proper cover blocks, supports, chairs, overlaps, welding, spacers, fanhooks etc. for all heights and depths etc. all complete as directed. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE	70	MT	90,000.00	63,00,000.00
194	**STRUCTURAL STEEL WORKS (REFER TE SPECIFICATION)**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Jaihind Projects Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
195	Supplying, fabricating and erecting of structural steel and applying COATING (Post-erection/ Field) of approved quality and shade as per TE Specification or Job Specifications, wherever applicable) over the coat of shop primer already applied, including storage, surface preparation, degreasing, cleaning, drying, providing necessary arrangement for access, testing etc. including touching up of shop for steel structures (Including Wicket Gate, Main Gate and emergency gate, excluding ladders, spiral stairways & hand rails) at all location & levels, all complete as specified, for UNIT (INLAND) areas considering environment classification as INDUSTRIAL. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE. (Unit rate based on Structural steel weight)	25.5	MT	95,000.00	24,22,500.00
196	**MISCELLANEOUS STEEL WORKS (REFER TE - SPECIFICATIONS)**				
197	MS Chequered Plates				
198	Supplying, fabricating and erecting in position at all levels and locations bolted, screwed and/or welded M.S. CHEQUERED PLATES of any thickness in walkways, platforms, stairtreads or any other place as directed, etc. cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing, welding, preparation and submission of fabrication drawings and preparing the surfaces for painting and applying shop primer as per TE Specification after fabrication and return of unused/ scrap/ unserviceable chequered plates to Owner's store and material reconciliation etc. all complete as specified and directed	1.5	MT	95,200.00	1,42,800.00
199	Anchor Bolts				
200	Supplying, fabricating, fixing and keeping in position at all levels and locations THREADED ANCHOR BOLTS of all diameters and nomenclature including nuts, washers, anchor plates, pipe sleeves etc. in foundations, columns, pedestals, slabs, beams, walls etc. or any other place as directed including handling & transporting, straightening if required, turning from relevant size M.S. rounds to required diameter, threading, welding, providing necessary templates and auxiliary dummy structures, if any, necessary tying and welding with reinforcement, adjustment of shuttering & reinforcement/any other fixture, greasing exposed metal surfaces, covering bolts and packing the sleeves with jute cloth etc. all complete as specified and directed.(SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.6	MT	1,34,400.00	2,15,040.00
201	MS Metal Inserts				
202	Supplying, transporting, storing, fabricating and fixing in position M.S. METAL INSERT (with lugs) of any shape made out of flats, plates, rolled sections, pipes etc. providing necessary templates, staging, cutting,straightening, if required, bolting, welding as required and embedding in position on both Plain and Reinforced Cement concrete members inclusive of adjusting shuttering & reinforcement/ any other fixture, welding where necessary, tying and holding to correct level, line and position, any auxiliary dummy structures to support the heavy inserts, painting exposed surfaces with a coat of primer as per TE Specification all complete for all depths and heights as specified and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	0.55	MT	95,200.00	52,360.00
203	MS Grating				
204	Supplying, fabricating and erecting in position at all levels and locations ELECTROFORGED GALVANISED GRATING (purchased from approved manufacturer by the Contractor) conforming to TE STANDARD (in walkways, platforms, stair treads etc.) including cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing with manufacturer's supplied galvanised clamps, preparation and submission of fabrication drawings, all complete as specified and directed (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.85	MT	1,40,000.00	2,59,000.00
205	Hand Railing 1000mm				
206	Supplying, fabricating and fixing in position at all locations 1000mm high INCLINED HAND RAILING (for staircases) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade M.S. Tubes conforming to IS:1239 including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE SPEC. preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	2,520.00	25,200.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Jaihind Projects Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
207	Supplying, fabricating and fixing in position at all locations 1000mm high HORIZONTAL HAND RAILING (for platforms, walkways, etc. or any other location as directed) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade MS Tubes conforming to IS:1239 and 100x5 MS Toe Plate confirming to IS:2062 (Grade A/B), including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE standard drawing & specification, preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	2,856.00	28,560.00
208	**CHAIN LINK FENCING**				
209	Supplying, fabricating and fixing G.I. chain link fencing with 3.5mm dia. wire, 50x50mm diamond mesh chain link fence fabric conforming to IS:2721 fixed to steel/RCC posts/struts above ground level, including supply of chain link fencing fabric in 1.9 metre wide rolls, stretcher bars, staples, etc. required for fixing the fencing, fixing of chain link fencing between straining posts, fixing of bottom of fencing in cement concrete 1:2:4 blocks and painting with synthetic enamel etc. , including supply and fixing line wires, complete as per drawings, specifications and directions of Engineer -in-Charge (All materials shall be supplied by Contractor). (The measurement of chain link fencing shall be on linear basis for 1.9 m wide fencing fabric)	10	M	6,160.00	61,600.00
210	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of the Engineer-in-Charge. Made of G.I. wire of dia. 4 mm, PVC coated to achieve outer dia not less than 5 mm in required colour and shade.	600	M2	5,000.00	30,00,000.00
211	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Star' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	200	M	5,000.00	10,00,000.00
212	**ROADS & FLEXIBLE PAVEMENT (UPTO WBM LAYER)**				
213	Preparation and consolidation of sub-grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth outside the property boundary in the un-disputed areas as directed by Engineer-In-Charge.	1500	M2	3,920.00	58,80,000.00
214	Supplying and laying of stone aggregate of 63mm down to 45mm size for WBM layer Base Course, tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 75mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding material of plasticity index upto 6%, including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts etc. complete as per drawings, specifications and directions of Engineer-in-Charge	4500	M2	3,584.00	1,61,28,000.00
215	**CONCRETE PAVEMENTS**				
216	Construction of dry lean cement concrete **(DLC) sub base** over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in- charge.	150	cum	11,424.00	17,13,600.00
217	Providing and laying Reinforced Cement Concrete with 20mm and down size graded crushed stone aggregates in flooring, pavements etc. including leaving pockets, if necessary, making recess/drains, laying in alternate panels, etc. for all depths including shuttering, tamping, curing, providing dowel bars with sleeves/tie bars etc where ever required at site. as specified in any shape, thickness, position and finishing the top surface smooth etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For RCC of M-30 grade concrete (all materials including cement but excluding cost of providing & fixing reinforcement and joint sealing shall be supplied by the contractor).	375	cum	11,424.00	42,84,000.00

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Jaihind Projects Ltd.

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218	Providing 20mm wide Expansion Joints in pavement slabs as per general technical specification including cleaning the joints of all loose material, filling with 20mm thick impregnated fibre boards for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved Joint Sealing Compound as per IS:1834 Type-B etc. all complete as per drawings, specifications and directions of Engineer-in-Charge	720	M	448.00	3,22,560.00
219	Sealing joint around pedestal and column etc. 20mm wide x 150 mm deep including filling with 20mm thick impregnated fire board for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved joint sealing compound as per IS:1834 Type-B.	300	M	448.00	1,34,400.00
220	**RCC PIPE CULVERTS & ELECTRICAL ROAD CROSSINGS ETC. (as per drawing & TE specification)**				
221	Supplying and laying in position RCC pipes with collars conforming to IS:458 for pipe culverts, cable crossings etc. including cutting the pipe if necessary, lowering, laying in position to proper levels, slopes etc. caulking the joints with spun yarn soaked in neat cement slurry and finishing with cement mortar 1:2 (1 cement : 2 sand) curing etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For following Class and Internal PIPE DIA (MM). (Dia (internal) - 500 mm, Pipe Class - NP3)	20	M	1,792.00	35,840.00
222	**U/G AND A/G G.I. PIPELINE SYSTEM - WATER SERVICES tender specification**				
223	Supplying and laying mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ ASTM A105 (Galvanized) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, earthwork in excavation for trenches, valve pits, etc. in all types of soil excluding soft and hard rock including laying of pipes in trenches, joining the pipes and fittings with threaded connections, hydrostatic testing of the piping, backfilling the trenches with selected/approved earth fill material, cutting of roads wherever required, making good the road surface after laying, disposal of surplus earth within a lead of 500 m, etc. including supply of necessary fittings etc. complete as per specifications, drawings and directions of Engineer-in-Charge. For following Nom.Size in mm. (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	448.00	4,480.00
224	Supplying and laying above ground mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ASTM A 105 (GALVANISED) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, including laying of pipes on sleeper, walls, including erecting piping on columns, etc. for pump station, overhead tanks, etc. including joining the pipes and fittings with threaded connections, hydrostatic testing of the piping including supply of necessary fittings etc & pipe supports. complete as per specifications, drawings and instructions of Cement Supplied by contractor (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	504.00	5,040.00
225	**MISC. CIVIL AND STRUCTURAL WORKS FOR U/G PIPING AND OTHER CIVIL WORKS**				
226	Providing and laying brick masonry with locally available bricks of specified class (Brick of class lower than specified shall not be accepted) in cement mortar 1:4 (1 cement : 4 Coarse sand) in one or more brick thickness and in any shape in foundation and plinth for valve pits, drains, circular/square manholes, wing walls, etc. including providing recesses, openings, etc. including curing, finishing the joints flush below ground level and raking out joints in plinth with all labour and material, etc. complete as per drawings, specifications and direction of Engineering-Charge. For following Brick Class.	280	cum	952.00	2,66,560.00
227	Providing 13mm thick average cement plaster in cement mortar 1:3 (1 cement: 3 sand) on brick walls/stone masonry/pitching or on concrete surfaces for manholes, valves pits, culverts, wing walls, etc. including cleaning and preparation of the surface, scaffolding, curing etc. for all depths and heights complete as per drawings specifications and direction of Engineer-in-Charge. All materials including cement supplied by the Contractor.	750	M2	285.00	2,13,750.00
228	**UNDERGROUND SEWER SYSTEM - RCC PIPES**				
229	Supplying and laying underground R.C.C. pipes sewers with socket and spigot ends conforming to IS:458 of approved make, to proper grade and alignment, including earthwork in excavation in all types of soil except soft and hard rock for pipe trenches, etc. including dewatering, shoring and shuttering if necessary, dressing of sides, leveling, grading and ramming of bottoms, cutting the R.C.C. pipes to required lengths, lowering the pipes, jointing, including connecting the pipes to manholes and grouting the pipe body with manhole wall using cement mortar 1:2 (1 cement : 2 sand), testing, draining of water and cleaning of pipe after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness , watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, including cutting of roads wherever required and making good the same, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit etc. complete for all depths as per drawings, specifications and instructions of Engineer-in-Charge.(All material shall be supplied by contractor) For following Pipe size (mm) and Class(The following pipe sizes are all internal diameter of the pipes)				
230	(Dia (Internal) - 100 mm, Piping Material Class - NP2)	15	M	896.00	13,440.00
231	(Dia (Internal) - 150 mm, Piping Material Class - NP1)	15	M	1,120.00	300.00

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232	(Dia (Internal) - 450 mm, Piping Material Class - NP2)	70	M	1,344.00	94,080.00
233	**UNDERGROUND SEWER SYSTEM-HDPE PIPES**				
234	UNDERGROUND SEWER SYSTEM-HDPE PIPES :- Supplying and laying HDPE pipes conforming to IS:4984 of approved make to proper grade and alignment, including earthwork in excavation for trenches etc. in all types of soil except soft and hard rock including dewatering till completion of subsequent works, shoring and strutting, if necessary, dressing the sides, leveling, grading and ramming the bottom, jointing the pipes using hot plates as per manufacturer's recommendation, lowering, providing and laying 1:5:10 (1 cement : 5 sand : 10 aggregate) plain cement concrete of minimum 100mm thickness on bottom and side of pipe as directed, connecting the pipes to manholes and grouting the pipes to manhole/valve chamber walls, including supplying and fixing the specials and fittings, such as bends, reducers, tees, elbows, caps etc. conforming to IS:8008 or fabricated from pipes as per specification, supplying and fixing of flanges, fixing of online valves, including fixing of bolts, nuts and gaskets etc. as per specifications, testing, draining of water and cleaning of pipes after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness, watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit, cutting of road wherever required, making good the same etc. complete for all depths as per drawings, specification and instruction of Engineer-in- Charge. For the following nominal diameter (mm) Pressure Rating(Kg/Cm2). (Dia (Internal) - 80 mm, Pressure Rating - 2.5 Kg/sqcm)	50	M	280.00	14,000.00
235	**PLUMBING AND BUILDING DRAINAGE**				
236	Supplying and fixing approved quality Cast Iron soil/waste pipe conforming to IS:1729 below ground with necessary specials, bends such as Y-junction, T- junction (both single and double) including plugs, shoes, cowls, jointing with lead caulked joints and testing, cutting in floors, earth work in excavation, encasing the pipe in 50mm THK, PCC M20, backfilling and removal of surplus earth upto a lead of 50M etc. complete as per drawings, specifications and directions of Engineer-in-Complete				
237	100mm dia (All materials including cement supplied by contractor)	10	M	280.00	2,800.00
238	80mm dia (All materials including cement supplied by contractor)	10	M	280.00	2,800.00
239	**Supplying and fixing gun metal globe valve conforming to IS:778, complete as per specifications and directions of Engineer-in-Charge.**				
240	Dia - 50 mm	2	Nos	560.00	1,120.00
241	**Constructing of brick masonry valve chamber in 1:4 Cement mortar(1 cement: 4 sand) with CI frame & cover fixed on M-20 grade cement concrete , necessary excavation, M-20 grade foundation concrete, 13mm thick 1:3 cement plaster on inside & all exposed surfaces, backfilling, removal of surplus earth for all leads within the complex limit etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge. For following Valve size and Brick Class (All materials including Cement supplied by contractor)**				
242	Dia - 50 mm, Brick Class - 5)	2	EACH	1,96,000.00	3,92,000.00
243	Providing and fixing approved stone ware 100mmx100mm dia. gully trap as per tender specification, including grating with CI frame and cover 300mmx300mm including brick masonry (brick class shall be as mentioned below) chamber in 1:4 cement mortar(1 cement: 4 sand) on M-20 grade cement concrete foundation, plastered inside and outside surfaces with 1:3 cement mortar (1 cement: 3 sand) with 13mm average thickness including providing and fixing light duty CI frame and cover, painting CI frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat, earth work in excavation, backfilling, removal of surplus earth, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry etc. all complete as per drawings, specifications and directions of Engineer-in-Charge				
244	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	6,160.00	12,320.00
245	Construction as per(Design basis & general technical specification) of brick masonry (brick class shall be as mentioned below) inspection chambers/manholes of 750mmx750mm internal size 1000mm deep(Max.) in cement mortar 1:4 (1 cement: 4 sand) with CI frame and cover 500mm clear dia, (circular Medium duty of grade MD-10) conforming to IS:1726 fixed on RCC slab of M-30				
246	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	56,000.00	1,12,000.00
247	Construction, supplying, installation, testing and commissioning of septic tank as per standards and IS:2470 Part-I , with all necessary accessories like inlet, outlet vent pipes, manhole covers, rungs etc. including earthwork in excavation in all type of soil except soft and hard rock, backfilling and disposal of surplus earth for all leads etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge				

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248	All material including cement supplied by contractor for (Users - 10 NOS)	1	Nos	50,400.00	50,400.00
249	**MISCELLANEOUS ITEMS**				
250	Supplying and fixing in position entrance gate in complex boundary wall fencing manufactured out of steel frame work and square MS bars of 20 mm at 100 c/c and horizontal name plate band at lock rail level suitably hinged with box type steel post embedded in cement concrete i.e. providing the tension bar for smooth operation and locking arrangement etc. complete as per tender specification, including painting with two coats of anti-corrosive paint and two coats of approved aluminium/synthetic enamel paint etc. complete as per drawings, specifications and directions of Engineer-in-Charge.				
251	4.0M clear opening width of gate in two panels.	3	Nos	1,50,000.00	4,50,000.00
252	Supplying & Laying interlocking Paver Blocks for roads, footpaths and any other place etc. including providing 50 mm thick sand filling below Paver Blocks including compaction of sand layer, filling the joints by dry sand, providing precast kerb stone of PCC M-20 at edges, including preparation of compacted sub-grade etc. all complete as per drawing, standard and directions of Engineer-in-Charge. (All material including cement supplied by contractor, paver blocks shall confirm to IS: 15658. cloour and shape of paver block shall be as per owner requirements for following thickness of paver blocks				
253	**(Thickness - 60 mm)**	285	M3	1,400.00	3,99,000.00
254	Supply and installation on terrace, high density polyethylene drinking water circular tank as per IS:12701 and ISI marked including supply and installation of all fittings, cover with suitable locking arrangement, float valve, making necessary holes for inlet, outlet and overflow connection and vent pipe etc. and the base supports for tank including supply of all necessary material all complete as per specifications and directions of Engineer-in-charge. (Sintex or equivalent having valid ISI license) for following capacities.				
255	**capacity - 500 litre**	2	Nos	13,440.00	26,880.00
256	Supplying, installation, testing and commissioning of Upflow Anaerobic Filter with bleaching tank as per TE Std. Drawing with all necessary accessories like, Upstream inlet CI piping from septic tank, Downstream outlet RCC NP2 class piping up to surface storm water drains, CI pipes for filter chamber, CI valve, RCC pre-cast pit covers, steps, perforated pre-cast slabs etc., inlet chamber, Filter chamber, deluding chamber including earthwork in excavation in all type of soil including soft rock, backfilling with murrum or approved soil arranged by the contractor, disposal of surplus earth etc. complete as per drawings, specification and direction of Engineering-Charge (All materials including cement shall be supplied by the contractor, Brick Class lower than 5.0 shall not be used).	1	Nos	39,200.00	39,200.00
257	**DEMOLISHING AND DISMANTLING**				
258	**Brickwork**				
259	**Demolishing BRICKWORK** (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	280.00	2,800.00
260	**Demolishing BRICKWORK** (taking all necessary safety precautions) for all heights **above plinth level** including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	392.00	3,920.00
261	**RCC**				
262	**Demolishing RCC WORK** (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	616.00	6,160.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Jaihind Projects Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
263	**Demolishing RCC WORK** (taking all necessary safety precautions) for all heights **above plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	728.00	7,280.00
264	**PCC**				
265	**Demolishing PLAIN CEMENT CONCRETE** work (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc. disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation and backfilling shall be paid separately under relevant items)	10	cum	448.00	4,480.00
266	**MISCELLANEOUS ITEMS (REFER TE SPECIFICATION)**				
267	**Sand Filling**				
268	Supplying and filling approved SAND of specified quality under floors, in foundations, plinths, tank foundations etc. for all depths and heights including cost of sand,royalties,transportation to site for all leads and lifts, including loading, unloading, spreading in layers of loose thickness not exceeding 150 mm,watering,ramming,compacting with mechanical compactors and/or other equipment to the specified levels to achieve 85% relative density as per IS:2720 Part XIV,including preparation of subgrade to the required slope, providing testing apparatus and testing the degree of consolidation all complete as per drawings, specifications and direction of Engineer-in-charge. The rates shall be inclusive of the cost of all labour,material,equipments etc. all complete .	100	cum	1,512.00	1,51,200.00
269	**SAND GRAVEL MIX**				
270	Supplying and filling sand gravel mix (1:1) with approved aggregate below road, RCC pavement, manholes, pits, foundations, bedding of UG piping etc. in layers of 150 mm loose thickness (maximum) including watering, ramming, rolling, compacting to achieve 85% relative density as per IS 2720 Part-XIV, quarrying, royalties, transportation, handling, etc. all complete as per drawings, specifications and directions of Engineer-in- Charge. (The rate shall be inclusive of the cost of all labour, material, equipment etc. all complete)	105	cum	963.00	1,01,115.00
271	**GROUTING WITH NON-SHRINKABLE COMPOUND**				
272	Providing and laying manually or by pumping at all positions a ready mix non-shrink cementitious grout of compressive strength specified below for specified works e.g. pipe support, base grouting of rotating equipment and other installation complete in all respects as per scope of work, detailed construction drawings , technical specifications and directions of the Engineer-In-Charge.				
273	Having compressive strength of 30 N/mm2 , Per bag of 25 Kg	100	Bags	1,030.00	1,03,000.00
274	Having compressive strength 45 N/mm2 , Per bag of 25 Kg	20	Bags	1,030.00	20,600.00
275	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains, SS trench of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.	7.5	m2	896.00	6,720.00
276	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, leve and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	13.5	cum	896.00	12,096.00
277	Providing and fixing factory made precast RCC **perforated drain covers**, having concrete of strength not less than M-25, of size 1000x450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos. cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of the Engineer-In-Charge.	515	EACH	1,064.00	5,47,960.00
278	**Borewell and recharge well**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Jaihind Projects Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
279	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job all complete as per drawing, direction of Engineer -in-charge, in all types of soil :	130	M	3,360.00	4,36,800.00
280	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge.	130	M	504.00	65,520.00
281	Providing and fixing Bail plug/ Bottom plug of required diameter to the bottom of pipe assembly of tubewell as per IS:2800 (Part-I). :150mm dia	3	EACH	2,464.00	7,392.00
282	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	1,400.00	7,000.00
283	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	1,030.00	5,150.00
284	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	1,400.00	7,000.00
285	Gravel packing in tubewell construction in accordance with IS:4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of the Engineer-In-Charge.	3	cum	1,254.00	3,762.00
286	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS:4270, of reputed & approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size dia having minimum wall thickness 5.00 mm	5	M	1,400.00	7,000.00
287	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	60	M	1,792.00	1,07,520.00
288	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/ 3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS:8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	25	M	1,624.00	40,600.00
289	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of 150 mm diameter	1	Nos	336.00	336.00
290	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS:2800 (Part-I), including necessary bolts & nuts of required size complete 150 mm diameter.	1	Nos	336.00	336.00
291	Supply, Installation and commissioning of 1.5HP Borwell Submersible Pump	1	EACH	16,800.00	16,800.00
292	Supply and Installation of 3Cx10Sqmm Copper Flat Cable	200	M	252.00	50,400.00
293	**LANDSCAPING**				

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294	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment).	335	cum	918.00	3,07,530.00
295	Fine dressing of the ground.	1105	M2	106.00	1,17,130.00
296	Providing & laying Selection no. 1 grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden and than rolling the surface with light roller make the surface smoothen and light watering the same maintenance for 30 days or more till the grass establish properly,as per direction of officer in charge	1105	M2	106.00	1,17,130.00
297	Conducting topographical ground/land survey in the specified area as shown in the tender drawings by conventional/GPS or any other standard method, covering details of physical features like Rivers, Nallahs, Lakes, Ponds, wells, pits, Forest, Trees, Roads, culverts, transmission lines, telegraph/ telephone and electric poles, underground or any other services, cross drainage works including cross sectional details of nallah etc. including establishing high flood level with source of information, identification of any monument, historical structure, wild life sanctuary in the vicinity, storm water disposal point with levels, cross-section details of nallah, recording spot levels, top level of nearest state highway or National Highway, including providing in tabulation girth wise no. of trees etc as specified, plotting and developing topographical contour maps, showing true north including establishing survey reference stations, key plan etc. including all equipment's, instruments, personnel's, clearing of bushes as per requirement for intervisibility to carry out survey work etc. , complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of drawings/map and supply of electronic files. Note: Survey work shall be carried out by survey agency approved by Contractor and sample spot witness of levels cordinates by PMC, and shall be submitted to PMC/Owner for review.Survey drawing will be provided in A0 size with clear visibility of all the spots/levels/ contoure and Bench marks. Permanaet bench mark will be stabished at site in a 450x450 mm size 600mm high bick masonry piller.	4220	M2	156.00	6,58,320.00
298	**GEO TECHNICAL INVESTIGATION (Z/02/0022)**				
299	Conducting soil investigation with boring including all field tests and laboratory tests, mobilization and demobilization of equipments & personnel etc. for soil investigation for each borehole location. complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of Reports & recommendations and supply of electronic files.	5	Nos	1,34,400.00	6,72,000.00
300	**ANTI-TERMITE TREATMENT**				
301	Supplying chemical emulsion in sealed containers including delivery as specified in the Technical Specifications.				
302	Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	200	LITRE	918.00	1,83,600.00
303	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
304	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc. as per Techinal specifications and direction of engineering in charge: With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	80	METRE	504.00	40,320.00
305	Treatment of soil under floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the floor:				
306	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	250	SQM	358.00	89,500.00
307	Supply and installation 60mm dia GI pipe for column support of gate	15	M	224.00	3,360.00
308	Supply and installation 100mm dia MS pipe	15	M	336.00	5,040.00
309	Supply and installation 50mm dia MS pipe	15	M	448.00	6,720.00
310	Supply and installation of U-PVC pipes (working pressure 4 kg / cm²) Single socketed pipe 75 mm dia for weep holes	200	M	224.00	44,800.00
311	**Sub-Total Section C**				**577.00**

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312	**SECTION-D [CATHODIC PROTECTION WORKS]**				
313	**CATHODIC PROTECTION SYSTEM**				
314	**Cathodic Protection system**				
315	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning & Monitoring of the temporary cathodic protection [TCP] system using galvanic anodes to protect the external surface of the pipeline against soil-side corrosion for minimum 2 year or till commissioning of permanent CP system whichever is later . All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard drawings and vendor list as attached with this tender and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	14,50,000.00	14,50,000.00
316	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning of permanent cathodic protection system for 40 years. The scope of work also includes post commssoning surveys and repair of coating/ rectification of cathodic protection system based on the post commissioning surveys. In additon to the same, AC Interference study on the pipelines to be performed and mitigation measures takes to the satisfaction of Owner/ CONSULTANT. All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard and vendor list attached and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	35,00,000.00	35,00,000.00
317	**Sub-Total Section D**				49,50,000.00
318	**SECTION-E [ELECTRICAL WORKS]**				
319	**ELECTRICAL**				
320	**SWITCH BOARDS / UPS SYSTEM/ PANEL**				
321	Supply , Installation, testing and commissioning of LT Switch-boards, AC UPS system with UPS Distribution board & Ni-Cd Battery banks , distribution boards, cubicles with electrical equipment, misc. electrical panels etc., including transportation from store/yard to site at the place of installation, unpacking, assembly, including mounting and wiring of loose parts supplied by equipment vendor, interconnection of shipping sections and requisite inter-panel wiring between shipping sections, including supply of all wiring materials, installation on foundations or fixing to wall or steel structures, aligning, levelling, grouting, including all labour and materials, as per approved drawings, specifications of this tender and directions of Engineer-in-Charge.				
322	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted MEDB	1	Nos	7,15,000.00	7,15,000.00
323	Supply , erection , termination , earthing and commissioning of wall mounted OLDB as per single line diagram of DT stations	1	Nos	95,150.00	95,150.00
324	Supply , erection , termination , earthing and commissioning of wall mounted ILDB as per Single line diagram of DT stations	1	Nos	86,350.00	86,350.00
325	Supply , erection , termination, earthing and commissioning of wall mounted SSDB as per Single line diagram of DT stations	1	Nos	86,350.00	86,350.00
326	Supply , erection , termination , earthing and commissioning of wall mounted AC DB as per Single line diagram of DT stations	1	Nos	75,350.00	75,350.00

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327	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 6 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of DT stations	1	SET	15,00,000.00	15,00,000.00
328	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for DT stations.	1	SET	35,00,000.00	35,00,000.00
329	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 1 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of RT stations	1	SET	5,00,000.00	5,00,000.00
330	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for RT stations.	1	SET	15,00,000.00	15,00,000.00
331	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted Emergency DB	1	Nos	45,000.00	45,000.00
332	Supply , erection , termination , earthing and commissioning of 32A, 4P, 25kA Auto Change-Over switch as per Single line diagram of DT station-JHARIA	1	Nos	79,750.00	79,750.00
333	**POWER AND CONTROL CABLE**				
334	Supply , laying , termination , erection and testing of 1.1 KV Power and control FRLS PVC Outersheath, XLPE insulated, armored Cables . Outdoor cable will be laid in buried cable trench and in Indoor cable will be laid in Cable trench by provision of Cable tray and supports inside the trench as per PTS - Electrical package P.017110 G 11077 E002				
335	3.5C x 95 sqmm AL FRLS XLPE	300	M	1,127.50	3,38,250.00
336	3.5C x 70 sqmm AL FRLS XLPE	300	M	907.50	2,72,250.00
337	3.5C x 50 sqmm AL FRLS XLPE	50	M	715.00	35,750.00
338	3.5C x 25 sqmm AL FRLS XLPE	100	M	577.50	57,750.00
339	4C x 16 sqmm CU FRLS XLPE	100	M	1,512.50	1,51,250.00
340	3C x 2.5 sqmm CU FRLS XLPE	170	M	259.60	44,132.00
341	3C x 6 sqmm CU FRLS XLPE	250	M	665.50	1,66,375.00
342	4C x 6 sqmm CU FRLS XLPE	350	M	676.50	2,36,775.00
343	2C x 6 sq.mm CU FRLS XLPE	100	M	621.50	62,150.00
344	2.5 sqmm Cu. Wire	1800	M	56.10	1,00,980.00
345	6 sqmm Cu. Wire	600	M	122.10	73,260.00
346	**Earthing & Lightning**				

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347	Supply , Installation , testing and comissioning of GI Earth electrodes & Cu plate type earth pit complete with earth pit as per IS 3043, PTS-Electrical package and all necessary material including exacavation of earth pit , filling with charcol and salt , back filling, brick work , connections including all labour and materials as approved drawing and specification of this tender and direction of Engineer-In charge.				
348	GI Earth Electrodes				
349	65mm dia x 3000 mm L GI pipe electrode type Earth pit	17	Nos	23,650.00	4,02,050.00
350	**Cu plate Earth Electrode**				
351	600x600x3mm Cu plate type Earth pit	8	Nos	36,135.00	2,89,080.00
352	**Earth strip and wire**				
353	50x 6 mm GI Flat strip	850	M	357.50	3,03,875.00
354	25 x 6 mm Cu Flat strip	50	M	907.50	45,375.00
355	2.5 Sqmm Cu wire	250	M	63.80	15,950.00
356	25 x 6 mm GI Flat strip	200	M	203.50	40,700.00
357	10 Sq.mm earthing cable	250	M	214.50	53,625.00
358	GI Earth Bus 50x 6 Sq.mm with all installation assesories	3	Nos	544.50	1,633.50
359	Cu. Earth Bus 50x 6 Sq.mm with all installation assesories (in control room)	4	Nos	1,039.50	4,158.00
360	25x3 mm GI Flat for Lightning as well as down conductors for DT station as per overall earthing layout and GGNG-E-20713-3007	80	M	159.50	12,760.00
361	Other lightning assesories like 20mm dia copper rod, hollosphere ,200x200x6mm ms plate ,anchor/fastner ,test links for DT station as per overall earthing layout and GGNG-E-20713-3007	1	LOT	86,350.00	86,350.00
362	**OUTDOOR Lighting**				
363	Supply , erection , Testing & commissioning of Outdoor area lighting system including with supply of flameproof / weather proof light fixture , pole , junction box and earthing including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender & Overall outdoor lighting layout of DT & RT station and directions of Engineer- In charge.				
364	100W FLP LED Fixture & FLP Junction box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	4	Nos	46,750.00	1,87,000.00
365	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	2	Nos	3,02,500.00	6,05,000.00
366	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in RT Stations.	7	Nos	3,02,500.00	21,17,500.00
367	1x160W FLOOD LED Fixture with weather proof junction box & 9 mtr high pole with all assesories for open area	6	Nos	63,800.00	300.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Jaihind Projects Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
368	1x70 W Solar type Street LED Fixture with weather proof junction box, VRLA Battery (72 hrs backup time) & 9 mtr high pole for street lighting	4	Nos	1,37,500.00	5,50,000.00
369	1x27 W Post Top Lantran LED Fixture for Gate with weather proof junction box for Gate lamp	2	Nos	16,335.00	32,670.00
370	1x36 W LED industrial fixture suitable to building parapet /wall with all assesories like weather proof junction box/clamp/reducer/	2	Nos	8,745.00	17,490.00
371	**INDOOR Lighting**				
372	Supply, erection, Testing & commissioning of Indoor building area lighting system including with supply of light fixture, point wiring including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender and directions of Engineer- In charge.				
373	2x20 W LED recessed decorative fixture for control room	5	Nos	7,095.00	35,475.00
374	2x20W LED Industrial Fixture for Electrical room	2	Nos	8,745.00	17,490.00
375	1x40W LED Flameproof Fixture for Battery room	1	Nos	13,750.00	13,750.00
376	2x18W LED Industrial Fixture for Varanda/Toilet/ water cooler area/ Guard room	6	Nos	7,177.50	43,065.00
377	1x36W LED Industrial Fixture	4	Nos	8,745.00	34,980.00
378	2x20 W LED recessed decorative fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) control room.	2	Nos	16115	32,230.00
379	2x20W LED Industrial Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Electrical room	2	Nos	18,243.50	36,487.00
380	1x40W LED Flameproof Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Battery room	1	Nos	21,494.00	21,494.00
381	**Switch socket**				
382	Supply and Installation of single/ three phase Switch socket as per Indoor Illumination layout for DT & RT and PTS-Electrical Package and directions of Engineer-In Charge				
383	5/15A surface type switch socket (1 Ph)	7	Nos	550.00	3,850.00
384	5A flush type switch socket (1 Ph)	4	Nos	302.50	1,210.00
385	16A Switch socket (I Ph)	3	Nos	412.50	1,237.50
386	20A Switch socket for AC (1 Ph)	4	Nos	2,365.00	9,460.00
387	Flame proof Junction box for Exhaust fan in Battery room	2	Nos	1,155.00	2,310.00
388	32A Switch socket for welding receptacles (3 Ph)	1	Nos	3,109.70	109.70

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Jaihind Projects Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
389	Modular switch board	12	Nos	467.50	5,610.00
390	**FANS and Exhaust FAN**				
391	Supply ,Installation and testing of Ceiling Fan and Exhaust fan with louvers including all labours and materials as per Indoor Illumination layout for DT and PTS-Electrical Package and directions of Engineer-In Charge				
392	Ceiling Fan 230V AC 1200 mm sweep	3	Nos	4,785.00	14,355.00
393	450 mm FLP Exhaust Fan for Battery room	2	Nos	15,950.00	31,900.00
394	200 mm Exhaust Fan for Toilet	1	Nos	3,575.00	3,575.00
395	300 mm Exhaust Fan for Electrical room/ CO2 room	3	Nos	4,675.00	14,025.00
396	**Air conditioning unit**				
397	Supply ,Installation and testing of Five star 1.5 Ton Split AC with outdoor compressor unit including all labours and materials as per Typical Indoor Illumination layout for DT and directions of Engineer-In Charge				
398	Split Air condition Five star 1.5 Ton	4	Nos	96,250.00	3,85,000.00
399	**Hardware and other Accessories**				
400	Supply and Installation of Hardware and other accessories including all labours and materials as per Tender specification PTS-Electrical Package P.017110 G 11077 E002 and directions of Engineer-In Charge				
401	Rubber mat	15	M	2,035.00	30,525.00
402	Rubber hand gloves	1	PAIR	2,794.00	2,794.00
403	Warning Marker	1	Nos	3,575.00	3,575.00
404	PVC Conduit with bend ,tee and other required assesories	1	LOT	75,350.00	75,350.00
405	CAUTION Board & Sock treatment chart	1	Nos	1,045.00	1,045.00
406	Cable route marker as per Standard drawing TE-IN-STD-G-0327	1	LS	51,150.00	51,150.00
407	Fire extingusher and SAND Bucket with Stand	1	SET	5,445.00	5,445.00
408	Ladder type Cable tray - hot dip Galvanized Prefabricated 450 mm wide	55	MTR.	1,210.00	66,550.00
409	Perforated type Cable tray hot dip Galvanized Prefabricated 450 mm wide	35	MTR.	1,375.00	48,125.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Jaihind Projects Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
410	Cable Glands				
411	Cable Glands : Flame proof IIA/IIB double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
412	Cables with upto OD 20 mm & above OD 20 mm as per Single line diagram of DT & RT station	1	LOT	40,150.00	40,150.00
413	Cable Glands : Weather proof double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
414	Cables with upto OD 20 mm to 40 mm as per Single line diagram of DT & RT station	1	LOT	51,150.00	51,150.00
415	**Sub-Total Section E**				**1,59,56,360.70**
416	**SECTION-F [INSTRUMENTATION WORKS]**				
417	**INSTRUMENTATION**				
418	**SUPPLY**				
419	Supply of Pressure Transmitter along with 2 valve manifolds with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	75,350.00	3,76,750.00
420	Supply of Pressure gauge including high range along with 2 valve manifolds with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	18	Nos	24,750.00	4,45,500.00
421	Supply of Pressure gauge including Low Range along with 2 valve manifolds, gauge saver with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	3	Nos	26,950.00	80,850.00
422	Supply of temperature element (RTD) along with flanged thermowell mounted for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	24,035.00	1,20,175.00
423	Supply of Temperature Transmitter with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	7	Nos	46,750.00	3,27,250.00
424	Supply of skin type temperature element (RTD) for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I003), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	2	Nos	20,625.00	41,250.00

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
425	Supply of Local control panel with all accessories as per Data sheet (P.017110 G 11087 I011), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, SAT of local control panel,supports/ frame fabrication, earthing and screwing plug for unused entries, painting and integration with RTU. Termination of all Other panel SCADA hard wired signal including RS-485 signals through LCP for RTU/SCADA by Bidder. 1. Digital Barriers 2. Analog Barries 3. Relays 4. three poisition selector switch 5. LED indication lamps 6. Push buttons 7. terminal blocks 8. internal wiring 9. MCBs 10. Door switches 11. cooling Fan 12. LED lights	2	Nos	9,07,500.00	18,15,000.00
426	Supply of Ex-proof junction box with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, iincluding Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.	4	Nos	26,950.00	1,07,800.00
427	Supply of Corrosion Monitoring system with corrosion coupon, Corrosion probe, transmitter and digital indicator (mounted in LCP) as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
428	Corrosion coupon along with accessories.	2	Nos	2,00,000.00	4,00,000.00
429	Corrosion probe along with transmitter, digital indicator, barriers and accessories.	2	Nos	6,50,000.00	13,00,000.00
430	Supply of Conventional Type Microprocessor based fire detection system along with smoke detector, heat detector, cabinet, manual call point, Independent 24 Hrs battery backup with 15 min in alarm state, repeater panel and Electrical Operated Siren, exit signs and cables fromsensor ,MCP, siren, hooter to controller as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
431	Controller along with cabinet along with cabling	1	Nos	2,05,700.00	2,05,700.00
432	Multisensor (smoke & heat)	10	Nos	5,335.00	53,350.00
433	WP IP 65 Manual call points	6	Nos	4,675.00	28,050.00
434	Ex Proof and WP IP 65 Manual call point	1	Nos	23,650.00	23,650.00
435	WP Hooter & Flasher	1	Nos	20,350.00	20,350.00
436	Repeater panel	1	Nos	1,08,350.00	1,08,350.00
437	Exist sign	6	Nos	13,750.00	82,500.00
438	Electrical siren Exd	1	Nos	35,750.00	750.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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439	24 Hrs battery backup	1	Nos	8,635.00	8,635.00
440	Supply of Conventional type gas detection system along with controller, ex proof point gas detectors, beacon hooter, flasher, , cabinet, portable gas detector, calibration kit, alignment kit as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
441	Controller with cabinet	1	Nos	2,47,500.00	2,47,500.00
442	Point gas detectors	12	Nos	1,40,800.00	16,89,600.00
443	Panel Mounted hooter	2	Nos	18,150.00	36,300.00
444	Dual tone Hooter & Beacon Ex"d" with reset push button	2	Nos	23,650.00	47,300.00
445	Portable gas detecotrs	1	Nos	1,08,350.00	1,08,350.00
446	Calibration kit	1	Nos	96,250.00	96,250.00
447	Ex d Junction Box	2	Nos	23,650.00	47,300.00
448	Supply of Universal type Hand Held Configurators for transmitters with carrying case, rechargeable batteries (one working and one standby), and battery charger as per Data sheet,PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work	1	Nos	6,05,000.00	6,05,000.00
449	Supply of Instrumentation signal cable, control cable, communication cable/LAN cable, Power cables along with all sizes cable glands (WP & Exd), PVC hood, lug, ferrule, etc including Cable laying (buried as well as tray) along with termination, glanding, meggering and loop checking including supply of ferrule, lugs, cable tie, cable clamp, cable marker etc. as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.				
450	1Px 1.5mm2	500	MTRS.	121.00	60,500.00
451	12Px 0.5mm2	900	MTRS.	687.50	6,18,750.00
452	1Qx1.5mm2	30	MTRS.	195.80	5,874.00
453	12Tx1.5mm2	200	MTRS.	984.50	1,96,900.00
454	1Tx1.5mm2	180	MTRS.	173.80	31,284.00
455	6Px0.5mm2	200	MTRS.	467.50	93,500.00
456	2Px1.5mm2	200	MTRS.	184.80	36,960.00
457	Cat 5 (LAN)	160	MTRS.	195.80	31,328.00
458	3C x 2.5mm2	240	MTRS.	247.50	59,400.00

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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459	Supply & laying of Instruments cable tray with tray cover (Branch Cable tray (50mm x 50mm), Main cable tray 900 mm, cable tray 300mm, cable tray 150 mm.) as per requirement, instruments/ PGD, CCTV/ mounting poles, instrument protection sun sheds, angles, channels, MS plates & all the erection materials and as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including installation of support, cable clamping, installation of tray cover and support painting.	1	LS	4,67,500.00	4,67,500.00
460	Supply , installation & laying of tubes and fittings as per requirement and as per PTS-Instrumentation with appendices and Scope of Work C&I. SS 316L TEE (1/2", Class 3000#, Screwed, NPTF, Seamless) ,SS316L GLOBE/BALL VALVE (1/2", Class 800#, Screwed, NPTF, Seamless), SS316L PLUG (1/2", Screwed, NPTM, Hex head, class 3000#), SS316L PIPE NIPPLE (½" NPTM, seamless, schedule #160) Length of the pipe nipple as per requirement, SS316L MALE CONNECTOR (1/2" OD x 1/2" NPTM), SS316L FEMALE CONNECTOR (1/2"OD x 1/2" NPTF), SS316L UNION (1/2" OD), SS316L TUBE (1/2" OD x 0.065" WT), SS316L TUBE (1/4" OD x 0.035" WT)	1	LS	5,47,800.00	5,47,800.00
461	Supply of mandatory spares as per Mandatory Spare (P.017110 G 11075 I001)	1	LS	1,37,500.00	1,37,500.00
462	AT Jharia - Installation of metering skids, metering cabinet under the supervision of skid supplier, cable laying and terminal of cable from skid junction box to metering system cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	1,56,750.00	1,56,750.00
463	At Jharia Installation of gas chromatograph skid, analyser & controller cabinet under the supervision of skid supplier, cable laying and terminal of cable from analyser cabinet to controller cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	86,350.00	86,350.00
464	At Jharia Installation of H2S & Moisture analyser skids, cabinet under the supervision of skid supplier, laying and terminal of cable from skid field mounted cabinet to LCP/RTU. Including supply of all the required erection, fabrication and civil materials.	1	LS	86,350.00	86,350.00
465	At SV 28 Spare Input output available in existing RTU, internal wiring at site, field connection, configuration and commissioning., interfacing with LCP and configuration of new parameters in existing RTU, as per Scope of Work.	1	LS	3,02,500.00	3,02,500.00
466	**Sub-Total Section F**				**1,13,77,756.00**
467	**SECTION-G [TELECOM WORKS]**				
468	Supply Telecommunication system, SDH equipment STM-4 Based SDH Cabinet of (2000H x 800W x 800W along with 100 mm base frame) as per below configuration: - 2*STM-4 + 2*STM-1 + 8FE ports as per PTS-Telecommunication system (P.017110 G 11077 I002), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including erection, testing, integration with existing NMS at Noida, Commissioning and integration with existing telecom system at SV 28 additional SFP of L4.2 for SV 28 connectivity	1	Nos	5,00,000.00	5,00,000.00
469	Supply of CCTV-IP based Fixed colour camera and PTZ colour camera along with power cable, communication cable at each station as per PTS-Telecommunication system (P.017110 G 11077 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work., including erection, testing, integration with existing VMS at Noida, Commissioning and integration with existing telecom system at SV 28				
470	Fixed Camera WP IP65	1	Nos	2,00,000.00	2,00,000.00
471	PTZ camera WP IP65	1	Nos	5,00,000.00	5,00,000.00
472	Supply of one Analog phones control room, one number in guard room and one number WP IP66 in field safe area as per PTS-Telecommunication system (P.017110 G 11077 I002) , PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work				
473	Analog Phone	2	Nos	50,000.00	00.00

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		Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**

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474	Analog Phone Ex Proof WP IP 65	1	Nos	65,000.00	65,000.00
475	FXO cards	1	Nos	75,000.00	75,000.00
476	FXS	1	Nos	80,000.00	80,000.00
477	Five pair armoured telephone cable, size 0.5mm2	100	MTR.	600.00	60,000.00
478	AT Jharia- Free issue RTU by GAIL: Transportation from Gail store to site location, installation, cabling from LCP to RTU, commissioning etc. Erection, installation of RTU inside the station control room including supply of all the required erection materials, fabrication and civil works	1	LS	5,00,000.00	5,00,000.00
479	At SV 28 Spare Input output available in existing RTU, internal wiring at site, field connection, configuration and commissioning., interfacing with LCP , cable laying from LCP to RTU, and configuration of new parameters in existing RTU, as per Scope of Work.	1	LS	5,00,000.00	5,00,000.00
480	**Sub-Total Section G**				**25,80,000.00**
	Total of Section A + B + C + D + E + F + G				**15,72,38,193.70**
479	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Total of Section A + B + C + D + E + F + G above	18	percentage	18	2,83,02,874.87
480	Rate of Extended Stay Compensation per month beyond the time schedule and grace period mentioned in Bidding document for reasons solely attribute to Owner (exclusive of GST) Notes:- 1;- Extended Stay Compensation shall be loaded on the quoted price as per evaluation methodology. 2;- In case, no rate for extended stay compensation is stipulated, it will be considered that extended stay compensation is not required by the Bidder and the rates quoted by them shall be valid till completion of works in all respects.	1	Nos	5,00,000.00	5,00,000.00
481	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Extended Stay Compensation at Sl. No. 480 above	18	percentage	18.00	90,000.00
	Grand Total				18,61,31,068.57

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Oval Projects Engineering Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
				UNIT RATE	TOTAL RATE
1	**SECTION-A (MAIN LINE WORKS)**				
2	**CH.0.00 KM to CH.5.667 KM**				
3	**MAINLINE, PIPING AND MECHANICAL**				
4	PIPELINE LAYING / INSTALLATION Laying/ installation of coated line pipe, associated fittings and accessories, etc. as per specifications, drawings, other provisions of Contract and instructions of Engineer-in-Charge, including but not limited to carrying out the following: "Receiving and taking-over", handling, loading, transportation and unloading of Owner supplied coated and bare line pipes and other Free Issue Materials from Contractor's own stock-yard to Work site including stringing on the pipeline Right-of-Use (ROU), Arrangement of all additional land required for Contractor's storage, Performing the additional survey wherein survey data is not sufficient in the opinion of Contractor, arrangement of working RoU if RoU width is not sufficient for equipment/ vehicle movement etc., access for construction (other than Owner provided ROU; Developing necessary access way to the worksite, including earth filling, levelling, etc.; supply of all materials (except Owner supplied materials), supply of all materials, consumables, equipment, labour, etc.; fabrication, Staking and installation of construction markers, clearing, grubbing, grading (as required) of Right of Use; clearing and grading of ROU; Cutting/ uprooting of shrubs, plants, vegetation within ROU; , Trenching to all depths and to a width to accommodate the pipeline with optical fiber cable (inside HDPE Duct) by excavation in all types of soil (in case of hard rock, additional payment for hard rock breaking will be paid as per separate SOR line item), including additional trenching for seismic and other areas as specified,(Rate for laying of optical fibre cable and HDPE Duct not be included here and same to be quoted against separate SOR item); Carrying out repairs of pipe and coating defects not attributable to Owner; Thorough internal cleaning of all pipes by suitable methods to remove debris, shots, grits etc.; Stringing of line pipes along ROU including providing straw bags, soft padding/sand padding; Aligning, cold field bending, cutting and beveling (as required) of pipes for welding and field adjustments, NDT & NDT of re-beveled area, welding, carrying out destructive & non- destructive testing of welds required as per approved NDT specifications (including radiography) and providing all requisite equipment, labour, supervision, materials, films, consumables etc.; carrying out repairs of weld joints as required, carrying out re- radiography and other non-destructive tests on repaired joints, etc.; Installation of carrier pipe including concrete coated pipes (wherever required),				
5	(Concrete Coating on pipes, covered separately) at all crossings including roads/ canals/ nala/ water crossings etc. (supply and installation of casing pipe by open cut or by Jacking/ boaring method covered separately) including pre-testing as required; Carrying out installation of carrier pipe in the casing pipe at cased crossings; Coating of all field weld joints, long radius bends (fabrication of Cold field bends covered here and fabrication of 6D bends by induction heating covered separately), buried fittings etc.; Supply & Installation of warning tape along the entire length of Pipeline including Crossing. Lowering the pipelines in trench, providing required padding over and around the pipeline with sand/graded material (in rocky areas), backfilling with available approved excavated material and/or other suitable soil (supply and providing of soft soil for pre & post padding in Rocky area); Supply and installation of slope breaker as per specifications and drawings in steep slope areas, wherever required; Carrying out hydrostatic testing including air cleaning, flushing, filling, gauging, pressurization of complete pipeline in various test sections as approved by Engineer-In-Charge to the specified test pressure, providing all equipment, pumps, fittings, instruments, dead weight tester, all types of pigs etc., and services, supervision, labour, consumables, arranging water required for hydrostatic testing including supply of corrosion inhibitor, air, etc. as required, locating of leaks and rectification of defects attributable to Contractor, re-testing after rectification, successful completion of hydro-testing of pipeline (De-watering covered else where in the SOR); including all tie-in(s) with the pipeline/ piping installed by others including cutting of test header, re- beveling as required; Carrying out all temporary, ancillary, auxiliary works and all incidental works required to make the pipeline ready for pre- commissioning; Carrying out EGP for the entire stretch of completed pipeline, Repair of defects recorded during EGP/gauge plate run or otherwise including cutting, beveling, welding, NDT, field joint coating etc.; as applicable, Final clean-up and restoration of right of use including obtaining NOC from respective statutory authorities as required and disposal of debris and returning all surplus material to designated disposal areas/storage yard, as directed by Engineer-In-Charge; Restoration of land, facilities and boundary wall etc. at associated facilities dismantled/damaged by the Contractor during construction; Obtaining work permits/ NOC from various statutory authorities having jurisdiction and complying with all stipulation/conditions/recommendation of the said authorities; Preparation of as-built drawings, pipe-book and other records. SOR shall be read in conjunction with Project drawings, scope of work, specifications, standards and other provisions of contract document. The work includes the Survey data & site preparation, Stringing/Chainges in direction, Beveling of pipe element, Welding Procedure Qualification & Welders Qualification, Welding of pipe element, Inspection & testing of production welds, Field joint coating, controlled blasting, chiseling, etc., Material hand over & material handling, Lowering-in & ballasting, All crossings except HDD as mentioned in Crossing List (including installation of carrier pipe inside the Casing at cased crossing) , Backfilling (for all depths in all types of soil, soft /hard rock) , including trench padding with sand, graded earth in rocky areas & rock shield(if required as per specs) reinstatement (restoration) and preparation of As-built Alignment & Crossing drawings.				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Oval Projects Engineering Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
6	All above works shall be executed in accordance with scope of work, GTS, PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. 1. Supply and Installation of OFC and HDPE Ducts along the entire pipeline route, adjacent to the new pipeline, along with all required accessories, fittings and associated items, is covered separately in the SOR. All above works for buried pipeline (including hook-up pipeline from Tap Off Point inside ONGC GCS, Jharia upto proposed plot for GAIL DT), as per following details :				
7	ND 8", API5L X60 - 6.4 mm	4250	M	2,200.00	93,50,000.00
8	ND 8", API5L X60 - 7.1 mm	1588	M	2,500.00	39,70,000.00
9	Concrete slabs (Mechanical Protection) as per technical specifications Supply, fabrication and installation of reinforced concrete weights. Reinforced steel size should be 8 mm. top and bottom at a rate of 200 mm c/c of precasted RCC 1:2:4 on pipeline of wall thickness of 75 mm thick and size as per specifications & Standard drawings and instructions of Owner/ Owner's representative including supply of consumables, materials, equipment, labor, supervision, all associated civil works.	110	M	2,150.00	2,36,500.00
10	Continuous Concrete Coating Supply of all consumables and materials, equipments, manpower, submission of application procedure with calculations for anti-buoyancy, design mix procedure qualification and application of continuous concrete weight coating thickness mentioned below (higher also, in case design requirements) on pipeline of all thickness, concrete weight coating of the field joints thereof, and performing all works as per specifications and instructions of Owner/Owner's representative and other provisions of CONTRACT DOCUMENT.				
11	25 mm thick	12	M	2,650.00	31,800.00
12	30 mm thick	12	M	3,350.00	40,200.00
13	GEO TEXTILE BAGS FOR ANTI-BUOYANCY				
14	Additional works over and above item no. 4 to 8 for design, manufacture and supply of Non-biodegradable geo-textile bags and installation of geo-textile bags duly filled with gravel/ stone ballast on pipelines of all wall thicknesses for anti-buoyancy, drawings, scope of work and instructions of Engineer-in-Charge and other provisions of the Contract document.				
15	ND 8" (for all thicknesses)	12	M	950.00	11,400.00
16	Permanent Markers Supply, fabrication and installation of following types of permanent markers along the pipeline route including all associated civil works such as excavation in all types of soil, construction of pedestals and grouting with concrete, clearing, supply & application of approved color and quality of primer and paint, stencil letter cutting for numbers, direction, chainage, etc. restoration of area to original condition and performing all works as per drawings, specifications and instruction of Owner/Owner's Representative.				
17	Pipeline Warning Signs	14	Nos	5,150.00	72,100.00
18	Right-of-way boundary markers	22	Nos	1,150.00	25,300.00
19	Kilometer Markers	4	Nos	4,200.00	16,800.00
20	Aerial Markers	1	Nos	6,000.00	6,000.00
21	Directional Markers	69	Nos	5,150.00	3,55,350.00
22	Repair of Defects in Pipe Coating (Attributable to OWNER)				
23	Repair of Line Pipe Coating: Supply of all coating repair materials as per the requirements of the relevant specifications, supply of all consumables, utilities, equipment, and all manpower required, pipe cleaning and surface preparation, repairing of coating defects (resulting in holiday in coating) and testing including all handling, transportation, etc. for line pipes, performing all works necessary for the completion of the works strictly in accordance with the relevant specifications and instructions of OWNER.				
24	Repair of Holidays in Coating	20	Nos	950.00	)00.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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25	Repair of Cosmetic Defects in Coating: Description of same as in item no 23 above, but for repair of cosmetic defects in coating.	30	m3	1,950.00	58,500.00
26	**Repair of Defects in Line Pipes**				
27	Repair of OWNER supplied pipes of all wall thicknesses, recorded at the time of taking-over by CONTRACTOR at all places of work.				
28	Cutting and rebevelling	15	Nos	3,250.00	48,750.00
29	Jack out method	15	Nos	3,250.00	48,750.00
30	All works for locating burst (occurred during hydrostatic testing and tightness test attributable to Owner issued materials) including detecting burst, necessary repairing/replacing defective pipe lengths, including cutting out and removing the defective pipe, pretesting the replacement pipe, welding of replacement pipe into mainline and NDT of welding, repair and re-testing of defective welds, coating of welded joints, cleanup, retesting including providing all labor, materials, consumables and inputs other than OWNER supplied materials and performing all works as per drawings, specifications and directions of Owner/ Owner's representative. In case of pinhole leaks not easily detectable all works for locating leak (occurred during mechanical resistance test and tightness test attributable to Owner issued materials) including detecting leak, The Payment will be made as per actual efforts and based on Equipment and manpower Rate provided in SCC . Further replacement & retesting will be paid as above.	2	Per burst	2,50,000.00	5,00,000.00
31	LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER) (FOR TERMINAL PIPING) LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER DUE TO FIM) All works for leak/burst (occurring during hydrostatic testing) by necessary repair/replacement of defective pipe length, including cutting and removing out defective pipes, welding, NDT of welds, repair and re-testing of defective welds, painting of welded joints, clean-up, re hydro testing of the pipe segment including providing all necessary equipment, labour, materials, consumables and inputs other than Owner supplied materials and performing all works as per drawings, scope of work, specifications, standards enclosed with the Contract and directions of Engineer-in-Charge. Note: 1. This rate shall be applicable for manufacturing defects in Company supplied materials only.	6	Inch-meter	2,850.00	17,100.00
32	IDLE TIME PRESERVATION OF PIPELINE Preservation of complete pipeline and associated facilities and its maintenance including supply of all consumables, all equipment, man- power, etc., complete as per the requirements of specifications, scope of work, standards, other provisions of Contract document and instructions of Engineer-in- Charge. By filling and pressurizing with nitrogen including supply and maintenance of nitrogen as per following details:				
33	Pipe OD - 8 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - 3 MONTH	6030	M	32.00	1,92,960.00
34	Pipe OD - 8 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - FOR EVERY ADDITIONAL MONTH BEYOND INITIAL 3 MONTHS	6030	M	38.00	2,29,140.00
35	**PRE-COMMISSIONING FOR NATURAL GAS PIPELINES SYSTEM, Carrying out pre-commissioning activities and pre-commissioning checks to the specified acceptance criteria, making the entire pipeline system ready for commissioning (It includes cleaning including magnetic cleaning, Electrical Geometrical Pigging survey, dewatering, swabbing,, pre-drying activity, Golden-tie ins connecting the stations),, supply of all equipment, man-power, consumables, including all type of pigs and required quantity of nitrogen, materials for all temporary works and performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.**				
36	Pipe OD - 8 INCH	6030	M	45.00	2,71,350.00
37	**Commissioning Assistance**				

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
38	OVERALL COMMISSIONING OF ENTIRE PIPELINE SYSTEM Overall commissioning including system checks, inertisation (as required) and charging of entire pipeline system, including all stations and all associated facilities including notifying the Company that the pipeline system is ready for commissioning; Review of status jointly with the Company and obtaining final clearance for start of commissioning; Development and submission of commissioning procedures, obtaining Company approval thereupon, carrying out overall commissioning of the total pipeline system including all facilities and all necessary coordination/ liaison with other Contractor(s) operations; Carrying out commissioning; Supply of all equipment like Nitrogen vapourisers (as required), along with all piping and instruments, temporary venting/ flaring/draining facilities as applicable, man-power, consumables including pigs and required quantity of Nitrogen (as required); Performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.				
39	Pipe OD - 8 INCH	6030	M	29.00	1,74,870.00
40	PIPELINE INFORMATION MANAGEMENT SYSTEM Providing pipeline information management system using web based software for monitoring pipeline construction progress and providing all "As Built" data & drawings for entire length of pipeline as per specifications enclosed with the tender document.	1	LS	2,50,000.00	2,50,000.00
41	VIDEO FILM & PHOTOGRAPHY OF CONSTRUCTION ACTIVITIES Preparation of high resolution video films with audio commentary and Industrial photography covering all aspects/activities of pipeline construction annotated as required, conversion of same to video DVD/Blue Ray format, submitting three (3) sets of the same as per details in scope of work document	1	LS	1,50,000.00	1,50,000.00
42	**FABRICATION OF LR BENDS :**				
43	Fabrication of 6D bend / LR (Induction) bends as per the relevant standard & Specification attached with the tender document from free issue linepipes (mother pipe) including but not limited to the following: "Receiving and taking over of free issue linepipes" from GAIL Dump Yard location as mentioned in Scope of Work, carrying out inspection of line pipe at the time of receive taking over in the presence of Company representative, carrying out repair of pipe defects attributable to Contractor after taking over, including supply of consumables & equipments; handling, hauling, transportation and loading/unloading required to transport the mother pipes between place of issue, LR bend fabricator/ manufacturer, intermediate storage as required, and final delivery of fabricated LR Bends to the worksite(s), as per requirement, Manufacturing/ fabricating of LR Bends, as per project requirements and Specifications. LR bends exact angle(s) shall be as per pipeline alignment. Note:- 1. Rate for repairing of defects in linepipes identified and recorded at the time of receiving & taking over i.e. defects attributable to Company shall be quoted separately in the applicable items of the SOR. 2.Loading of Pipe into installation contractor trailer shall be carried out by the GAIL Dumpyard maintenance agency already engaged by the Company.				
44	Bare Pipe ND 8", API5L X60 - 6.4mm	8	Nos	42,500.00	3,40,000.00
45	Bare Pipe ND 8", API5L X60 -7.1 mm	15	Nos	40,500.00	6,07,500.00
46	**SUPPLY AND INSTALLATION OF CASING PIPE & 6 INCH CS CONDUIT:** Supply and installation of casing pipe and 6 inch CS conduit for OFC by jacking / boring or open cut for rail, road or canal crossings wherever required in all types of soils and terrain separately for carrier pipes and fibre optic cable inside HDPE duct, supply of casing pipes and all other Contractor supplied materials viz. casing insulators and casing end seals as per enclosed drawing, materials for casing vents and drains, etc. including transportation, supply of all other materials, equipments, consumables, man-power, welding including visual inspection of all weld joints, installation of casing insulators, end seals, vents and drain-off pipes, backfilling and restoration as original of the facility crossed and performing all works as per drawings, specifications including PTS and GTS and instructions of Engineer-in Charge and provisions of Contract document.				
47	Supply and installation of Casing pipe by Boring / Jacking as per item no. 46 (Railway crossing) Casing Pipe Details: (Pipe 14" , 8.7 mm Thick, API 5L GR.B)	200	M	38,500.00	77,00,000.00

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48	Supply and installation of Casing pipe by Boring / Jacking as per item no. 46 (Other than Railway Crossings) Casing Pipe Details: (Pipe 14" , 6.4 mm Thick, API 5L GR.B)	12	M	36,500.00	4,38,000.00
49	Supply and installation of 6 inch CS Conduit by Boring/Jacking as per item no. 46 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	200	M	16,500.00	33,00,000.00
50	Supply and installation of Casing pipe by open cut as per item no. 46 Casing Pipe Details: (Pipe 14" , 6.4 mm Thick, API 5L GR.B)	12	M	36,500.00	4,38,000.00
51	Supply and installation of 6 inch CS Conduit by open cut as per item no. 46 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	12	M	16,500.00	1,98,000.00
52	**HDD CROSSING**				
53	**Generalities**				
54	Topographic / Bathymetry, Geotech Investigation and Hydrological data collection				
55	Site preparation				
56	Design & stress calculations as per requirement				
57	Material hand-over and material handling				
58	Site reinstatement				
59	Final dossier including all notes & calculations as required in the specification				
60	***Installation of 6 inch CS Conduit***				
61	Teletransmission--Separate Drilling for 6 inch CS Conduit for OFC installation				
62	Installation of HDPE duct & OFC cable inside 6 inch CS conduit				
63	Drilling & Pulling of 6 inch CS Conduit shall be done before mainline HDD.				
64	***Pipeline string***				
65	Beveling & welding				

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66	Inspection & testing of welds				
67	Field joint coating				
68	Temporary support (roller)				
69	Control of pipeline string				
70	Hydrotesting & leak test				
71	***Drilling operation***				
72	Earthwork entry / exit points including grading erection of embankment etc..				
73	Supply & clearing out of all material needed for drilling				
74	Drilling of washer pipe, reaming & cleaning of drill opening, supply and preparation of bentonite				
75	Pull back of the pipe string				
76	Disposal of surplus of soil & bentonite				
77	Control of the integrity of the coating				
78	***Work at entry point***				
79	Changes in direction				
80	Beveling & welding				
81	Inspection & testing of welds				
82	Field joint coating & coating of all bare section of pipe				
83	Earthwork				
84	Lowering-in				
85	backfilling as required				
86	***Work at exit point***				

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87	Changes in direction				
88	Beveling & welding				
89	Inspection & testing of welds				
90	Field joint coating & coating of all bare section of pipe				
91	Earthwork				
92	Lowering-in				
93	backfilling as required				
94	Complete work for the water/ Road/ Rail crossings, including taking over and handling of linepipes from Contractor Storage Yard to worksite, Arrangement of all additional land required for Contractor's storage, fabrication, access for construction; construction design calculation and engineering of the crossing, mobilization and demobilization at site(s), supply of all materials as per "Scope of Supply" and all consumables, equipment, manpower and other resources, and acquiring the required land for site preparations, and execution of, but not limited to, the following works in accordance with specifications, drawings, and as per provisions of the Contract document and instructions of the Company/ Engineer-in- Charge: Carry out all surveys required for collecting data relevant to design and construction of the crossing, preparation of all necessary construction drawings for Company's approval as per the provisions of the Contractor document, Preparation of detailed construction method statement and calculations including Scour Depth calculations for river/ canal crossings, Strings preparation including welding, 100% Radiography of welds, NDT of welds and re-beveled areas, radiography, weld repair and re-test, pre-testing of completed string, corrosion coating of field joints with Dirax or equivalent, inspection of corrosion coating and repair of defects, Preconstruction surveys and collection of all necessary data, Installation of pipeline and CS conduit (6 Inch CS Conduit shall be installed through Seperate Drilling) , horizontal directional drilling to the correct profile as per approved drawings and specification, Post-installation hydrotest including leaks and repair of defects and retesting, etc. for defects attributed to Contractor's faulty work, Supply, fabrication and construction of protective fencing as required, Hydrotesting, Supply, fabrication and erection of pipeline markers, Restoration and clean-up etc., Preparation of as-built drawings and other records etc., All other works not specifically listed herein, but required as per specifications, drawings, provision of contract document, calculations, and construction method statements, leading to successful completion of works.				
95	Linepipe details:- (Pipe 8" dia, Wall Thickness: 7.1 mm, Pipe Grade: API 5L GR.X-60 PSL 2, External Coating: 3LPE) CS Conduit details: (Pipe 6" dia, 6.4mm Thick, API 5L GR.B) Note: 1. CS Conduit shall be supplied by the Contractor. Radiography & Hydrostatic testing is not required to be done for CS Conduit. (6 Inch CS Conduit shall be installed through Seperate Drilling) Contractor shall quote accordingly. 2. The rate shall be applicable for the drilled length of the HDDs. All above works shall be executed in accordance with scope of work, GTS,PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. This line item is applicable for HDD crossing mentioned in the Crossing List with prior approval of Engineer - In-Charge during Construction.	192	M	32,500	62,40,000.00
96	**SUPPLY & INSTALLATION OF OPTICAL FIBBE CABLE AND HDPE DUCT**				
97	Suppy of 24 Fibre Composite armoured Optical Fibre Cable drum (6 fibre G-655 & 18 fibre G-652) of 4 km +/-5% Cable drum length with fiber terminal closure, inspection chamber, electronic route marker all along pipeline route, Two number electronic locater as per PTS-Optical Fibre cable and Scope of Work C&I along with all required accessories and fitments not mentioned seperately.	7000	M	77	)00.00

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Oval Projects Engineering Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
98	Inspection/Jointing Chamber (fabricated or readymade)	3	Nos	24,500	73,500.00
99	Blowing Pit (fabricated or readymade)	7	Nos	26,500	1,85,500.00
100	Supply of jointing closure 24 Fiber, 2 way including all accessories (3M, Siemens, Reychem make only)	3	Nos	4,700	14,100.00
101	Supply of End to End OFC termination of wall mounted FTC with pig tails other accessories for termination of OFC - 24 Fibre in the Telecom Room at Jharia & SV28	2	Nos	24,500	49,000.00
102	Electronic marker	3	Nos	37,500	1,12,500.00
103	Electronic Locator	1	Nos	2,65,000	2,65,000.00
104	Supply of 50mm OD permanently lubricated HDPE telecom duct along with all the required accessories as per PTS-Optical Fibre cable and Scope of Work C&I	7000	M	76.50	5,35,500.00
105	Laying of HDPE Duct : Laying of 50mm HDPE Ducts in same pipeline trench direct buried, or inside 6 inch CS conduit at various crossings as per Specification in all type of soil & terrain, excavated as required, padding, backfilling, etc. including supply of accessories required for HDPE Duct installation, including plastic couplers, end plugs, cable sealing plugs, end caps, etc. suitable & sufficient for above supplied ducts, cleaning and sealing of ducts at the end laid drum lengths, preparation and supply of cable blowing pit at each Km jointing of HDPE duct, testing of HDPE Duct and accessories after laying preparation of report and final drawing and documents as per specification, joint location marking, erection accessories, as-built, etc.	7000	M	57.00	3,99,000.00
106	Blowing of Optical Fibre Cable inside HDPE Duct : All activities pertaining to Blowing of Optical Fibre Cable in same pipeline trench directly (after testing drum at site), inside HDPE duct along the pipeline and at crossing, sealing using all materials required as per specification	7000	Nos	37.00	2,59,000.00
107	Installation of FTC & Wire mesh, termination of OFC on FTC / DDF inside telecom room, splicing with steet fibre, fibre test, OTDR test, power testing of laid OFC, identification of fault, rectification, earthing, final testing and commissioning, preparation of reports, etc. work complete in all respect with all necessary accessories for all location till final Handing Over and Taking Over by Owner of laid OFC.	1	LS	2,50,000.00	2,50,000.00
108	**TRANSPORTATION OF COATED AND BARE LINEPIPES FROM GAIL DUMPYARDS (ANY LOCATIONIN INDIA) TO CONTRACTOR STORAGE YARD:**				
109	"Receiving and taking over" of "free issue" Linepipes from GAIL Dump Yard location (any location in India); Carrying out inspection of Linepipes at the time of receiving and taking-over, recording of pipe & coating defects at the time of taking over in the presence of Company's representative, carrying out repair of coating defects & pipe defects attributable to Company; including supply of materials, consumables & equipments; handling, hauling and transportation from designated place of issue to Contractor Storage Yard; unloading and stacking of the linepipes at Contractor Storage Yard; including arranging all equipments, trailers, trucks & manpower; all works as per Scope of Work, drawings, PTS, GTS and other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, Provision of Contract & instructions of Engineer InCharge.				

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110	Linepipe Details:- Coated and Bare Line Pipe 8" diameter API 5L Gr. X-60 PSL-2 Wall Thickness - 6,4mm / 7.1mm External Coating - 3LPE, Internal Coating - Liquid Epoxy 1) Loading of Pipes into Installation contractor's trailer shall be carried out by the contractor. 2) Development & Maintenance of Contractor Storage Yard adequate to store the linepipes including arrangement of all Lifting & Handling equipment at Contractor's Storage Yard shall be done by the Contractor. Rate for the same shall be quoted in applicable items. 3) Rate for repairing of coating defects in linepipes identified and recorded at the time of receiving & taking over i.e. coating-defects attributable to Company shall be included in this item. 4) Rate for repairing of pipe-defects identified and recorded at the time of receiving & taking over i.e. pipe-defects attributable to Company shall be quoted separately in the applicable items of the SOR. 5) Transportation of line pipe from Contractor's Storage Yard to work site is included in SOR item 1 above, No separate payment will be applicable for the same.	350000	Ton-Km	12.00	42,00,000.00
111	TRANSPORTATION OF FREE ISSUE PIPING ITEMS (OTHER THAN LINE PIPE) FROM GAIL STORAGE YARDS (ANY LOCATION IN INDIA) TO CONTRACTORS YARD / WORKSITE(S) : "Receiving and taking-over", handling, lifting, loading, transportation and unloading of Company supplied "free-issue materials" (Other than line pipe) viz. Metering Filtering and PRS Skid, Scrapper Launcher/ Receiver & accessories, Valves with or without Actuators, Insulation Joints, Flow Tee, Pig Signallers, fittings, flanges etc. from GAIL Storage yards location (any location in India) to Contractor's Storage Yard / work-site(s). Note:- 1) Location of GAIL Storage Yard shall be anywhere in India. Contractor shall quote accordingly. 2) Transportation of FIM from Contractor's Storage Yard to work site, is included in SOR item 119 below, No separate payment will be applicable for the same.	24000	Ton-Km	25.00	6,00,000.00
112	**DEVELOPMENT OF CONTRACTOR STORAGE YARD:**				
113	Development of the Contractor Storage Yard including fencing, illumination etc., including deployment of all lifting and handling equipments, manpower required to stack, unload and load all Free Issue Material (FIM) including Line Pipes and all bought out items, as required; storage of all Free Issue Material and bought out items for the required duration as per project requirement, all works as per Scope of Work, drawings, other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, PTS, GTS and Provision of Contract & instructions of Engineer In-Charge. The storage yard shall be used for storage of all Free Issue Line pipes, all other Free Issure Material (FIM) and all bought out items required for the project. Notes:- 1) Development of contractor storage yard adequate to store all the material required for Project, including all Free Issue Material (FIM) and bought out items. (Rate for the same shall be captured in this item) 2) Maintenance of contractor storage yard for the entire project period is included in the scope of contractor. No separate payment shall be applicable for the same.	1	LS	12,50,000.00	12,50,000.00
114	Hard Rock breaking by controlled blasting / chiseling method (rate will be applicable in case when prior approval for rock breaking is obtained by the contractor from GAIL / PMC)	50	M3	2,950.00	1,47,500.00
115	Clean Agent Fire Supression System as per Scope of Work	1	LS	1,45,000.00	1,45,000.00
116	Restoration of underground utilities (pipes & cables) during excavation at ONGC, GCS Jharia and Receiving Station (which is inside SV-28 Premises)	5	Nos	85,000.00	4,25,000.00
117	**Sub-Total Section A**				**4,47,86,970.00**
118	**SECTION-B [MECHANICAL (PIPING & TERMINAL WORKS)]**				

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119	**PIPING WORKS AT DESPATCH AND RECEIVING STATIONS AND HOOK-UP WITH ONGC GCS, JHARIA** All works for installation of all piping at all elevations for Despatch and Receiving Stations as indicated in Drawings, Scope document, including supply of all consumables, Gaskets, nuts, bolts Studs, manpower, materials and equipment (except Company supplied free-issue materials), aligning, grouting, tie-in with pipeline and carrying out all mechanical works of underground and above ground piping including fabrication, welding, installation of all pipes, valves (manual & actuated), flanges, fittings, flow tees, pig signalers, insulating joints, corrosion monitoring probes /corrosion coupons, installation of instruments (pressure/temperature gauges, vents, drains-off, safety relief valves, electro hydraulic valves etc.) as indicated in P& IDs and GADs. 100% Radiography of weld joints of piping above 1.5 inch, Magnetic particle & Die penetration test for piping 1.5 inch & below, all NDT of welds, weld repairs/retesting, hydrostatic testing, cleaning/flushing, functional testing, de-pressurizing , Drying and dewatering, cutting and re-beveling (as required), hookup of all pipeline/utilities at the battery limit with the pipeline/utilities installed by others, obtaining all statutory clearances, approvals and permissions for the work (wherever required), excavation and filling in all types of soils including soft/hard rock for installation of piping/ pipe supports; corrosion coating and external painting (as required), finishing, clean-up and restoration of site, preparation of as- built drawings, documents and project records and performing all works as per drawings, specifications, other provisions of Contract document and instructions of Engineer-in-Charge. Civil/ structural works for piping supports will be paid separately as per unit rate provided elsewhere in the contract. Cost of Transportation of all materials (Including FIM mentioned above) for station works, from Contractor's own stock-yard to Work site, to be included in this SOR item. No separate payment will				
120	Fabrication and Erection of piping as per item no.110, (For Pipe Size 2 Inch and above, 100% Radiography) Note: 1. Rate for Handling, Fabrication and erection of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item. Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor.Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes 2" & above, shall also be part of this item. Contractor shall quote accordingly.	1500	INCH DIA METER	1,200.00	18,00,000.00
121	Fabrication & Erection of Piping as per item no. 110 (For Pipe Size Below 2 inch, Magnetic particle & Dye Penetration Test as per the requirement of specification) Note: 1. Rate for Handling and installation of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item.Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor. Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes below 2", shall also be part of this item. Contractor shall quote accordingly.	50	INCH DIA METER	1,200.00	60,000.00
122	Painting of Piping (Pipe, Fittings, Flanges, Valves, Equipments, etc.) as per item no. 110	1550	ICH METER	100.00	1,55,000.00
123	Hydrostatic testing, cleaning / flushing, functional testing, de-pressurizing, dewatering & drying of Piping as per item no. 110 (for all size upto 10").	1550	ICH METER	200.00	3,10,000.00
124	**INSTALLATION OF COMPANY SUPPLIED FIM (FML SKID AND PIG LAUNCHER/RECEIVER SYSTEM) AT DESPATCH TERMINAL AND RECEIVING TERMINAL**				
125	Installation of Company supplied Filtering, Metering and PRS Skid and Scrapper Launcher/ Receiver with accessories, at stations including all handling and installation works; as per drawings, specifications enclosed with the Contract and directions of Engineer-in-Charge. Cost of Transportation of above Free issue items, from Contractor's own stock-yard to Work site for station works, to be included in this SOR item. No separate payment will be applicable for the same.	1	LS	1,50,000.00	1,50,000.00
126	**CONTRACTOR SUPPLIED ITEMS:(Supply of Items as per attached PTS,GTS,Data Sheet,QAP and PMS)**				
127	**Station pipe -Seamless**				
128	1" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, PE, SEAMLESS	6	METER	1,100.00	6,600.00
129	2" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	90	METER	1,500.00	1,35,000.00
130	4" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	135	METER	2,500.00	500.00

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131	8" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	50	METER	6,000.00	3,00,000.00
132	8" pipe, 6.4mm thk, ANSI B 36.10, API5L X 60, BE, HFERW/SEAMLESS	29	METER	6,000.00	1,74,000.00
133	10" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	12	METER	9,000.00	1,08,000.00
134	**Supply of Fitting & Flanges**				
135	1 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 350 LF2,CL1, BW, ANSI B16.25	4	Nos	500.00	2,000.00
136	2 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25.	3	Nos	600.00	1,800.00
137	1" WNRF FLANGES, 6C1, SCH. 160 / 600#, WNRF, B-16.5, ASTM A350 LF2, CL1, BW-ANSI B16.25 RF	4	Nos	700.00	2,800.00
138	8", WNRF FLANGES, 6C2, 6.4 thk/ 600#, WNRF, B-16.5, ASTM A694 F60 OR EQUIVALENT, CL1, BW-ANSI B16.25 RF.	5	Nos	6,000.00	30,000.00
139	1", BLIND FLANGES, 6C1, 600#, RF, B-16.5, ASTM A350 LF2, CL1, RF	4	Nos	650.00	2,600.00
140	3/4" EQUAL TEES, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25,	1	Nos	750.00	750.00
141	3/4", CUP THREADED 6C1, 6000#, ANSI B16-11, ASTM A 350 LF2, CL1 , BW - ANSI B16.25, ANSI B1.20.1,	3	Nos	750.00	2,250.00
142	**WELDOLETS (MAINLINE x BRANCH SIZE)**				
143	4" x 1", WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1 ,	2	Nos	1,600.00	3,200.00
144	8" x 2" WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 6.4 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 694 F60	13	Nos	4,600.00	59,800.00
145	8" x 2", WELDOLETS (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	26	Nos	4,600.00	1,19,600.00
146	**GASKETS**				
147	GASKETS, 6C1, 600#, RF, ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 1"	12	Nos	200.00	2,400.00
148	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 2"	210	Nos	200.00	42,000.00
149	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 4"	30	Nos	300.00	9,000.00
150	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 8"	47	Nos	1,500.00	70,500.00
151	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 10"	2	Nos	1,600.00	3,200.00
152	**NIPPLES**				
153	NIPPLES, 6C1, Sch 160 /600#, ANSI B 36.10, ASTM A333 GR.6, BOTH ENDS PLAIN, SEAMLESS-LG=100mm, 3/4"	12	Nos	200.00	2,400.00

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154	NIPPLES, 6C1, Sch 160 / 600#, ANSI B 36.11, ASTM A333 GR.7, ONE END THRD -MNPT SEAMLESS- LG=100mm, 3/4"	8	Nos	200.00	1,600.00
155	**INSULATING JOINT**				
156	INSULATING JOINT 6C,16.4 mm (X60) x 600# ,MANUFACTURER STANDARDS ,ASTM A694 F60 ,BW - ANSI B16-25, 8"	2	Nos	1,20,000.00	2,40,000.00
157	**Supply of following Valves as Per attached PTS,GTS,Data Sheet,QAP,PMS & MTO**				
158	1",BALL VALVE - FULL BORE (RF) (ABOVE GROUND),6C1	6	Nos	8,000.00	48,000.00
159	3/4", CHECK VALVE (RF) (AG), 6C1	2	Nos	14,000.00	28,000.00
160	3/4",NEEDLE VALVE, 6C1	5	Nos	15,000.00	75,000.00
161	**Note (Applicable for all items of SOR Item No 126 to 160):** **1. Before procurement of any of the above materials Contractor will take prior approval from GAIL / PMC.** **2. Payment will be made for actual quantity used.**				
162	**Sub-Total Section B**				**42,83,000.00**
163	**SECTION-C [CIVIL / STRUCTURAL & ARCHITECTURAL]**				
164	**CIVIL , STRUCTURAL & ARCHITECTURAL**				
165	**Earthwork excavation in soil**				
166	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	1770	cum	235.00	4,15,950.00
167	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth beyond 1.5m and upto and inclusive of 3.0m including Removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	50	cum	265.00	13,250.00
168	**Earthwork excavation in soft rock**				
169	Earth work in EXCAVATION below ground level for all kinds of works in SOFT ROCK and HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as irected including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	130	cum	2,950.00	3,83,500.00
170	**Backfilling after execution of work**				

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171	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps within a LEAD OF 100M,including re-excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/ mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	580	cum	90.00	52,200.00
172	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps beyond a LEAD OF 100M AND UPTO & INCLUSIVE OF 500M including re- excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	250	cum	120.00	30,000.00
173	**Transporting & Disposing the SURPLUS EARTH AND DEBRIS**				
174	Transporting and disposing the SURPLUS EARTH AND DEBRIS including shrubs and vegetations from construction areas to areas ANYWHERE OUTSIDE THE PLANT BOUNDARY, including re-excavating the deposited soil excavated earlier, loading, transportation, unloading, laying at all depths and heights, stacking,levelling and dressing both the area (viz. from where the earth is transported and where it is deposited) to required levels and slopes complete with all lifts as directed. For carting on the basis of truck measurements (volume of truck reduced by 30% for voids). DISPOSAL AREAS OUTSIDE PLANT BOUNDARY TO BE ARRANGED BY THE CONTRACTOR. Royalty as applicable for disposal outside plant limits to be borne by the Contractor	760	cum	120.00	91,200.00
175	**EARTH WORK FILLING BY EXCAVATION**				
176	EARTHWORK IN FILLING by excavating the earth from BORROW AREAS arranged by CONTRACTOR for all leads, transporting the earth from borrow area including cleaning & stripping the earth at borrow areas, breaking clods, loading, unloading and laying at all depths and heights in layers of thickness not exceeding 15 cms., watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% of the maximum laboratory dry density, ressing, trimming, levelling the top surface etc. in foundations, plinths, trenches etc. all complete.	4725	cum	235.00	11,10,375.00
177	**PLAIN & REINFORCED CEMENT CONCRETE: (REFER SPECIFICATION NO. (Z/02/0004)**				
178	**PLAIN CEMENT CONCRETE - PCC**				
179	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:4:8 (1 cement : 4 coarse sand (Zone-III) : 8 graded stone aggregate 40 mm nominal size)	105	cum	6,200.00	6,51,000.00
180	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:3:6 (1 cement : 3 coarse sand (Zone-III) : 6 graded stone aggregate 40 mm nominal size)	20	cum	7,500.00	1,50,000.00
181	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:2:4 (1 cement : 2 coarse sand (Zone-III) : 4 graded stone aggregate 20 mm nominal size)	120	cum	8,500.00	10,20,000.00
182	Providing and laying PLAIN CEMENT CONCRETE for all depths below and upto plinth level in foundations, drains, fillings, non-suspended floors, pavements & ramps or any other works etc. including shuttering, tamping, ramming, vibrating, curing, etc. all as specified in any shape, position, thickness and finishing the top surface rough or smooth as specified and directed all complete for concrete grade M20 with 20mm and down size graded crushed stone aggregates/Gravels. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR	110	cum	6,000.00	6,60,000.00
183	**RCC WORKS**				
184	**SUBSTRUCTURE**				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Oval Projects Engineering Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
185	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUBSTRUCTURE INCLUDING CENTERING & SHUTTERING) e.g. foundations, raft, beams, pile caps, Retaining walls, counterforts, buttresses, pedestals, pipe sleepers, columns, suspended floors, staircases, landings, steps, brackets etc., including equipment/ machine foundations & pedestals viz. compressors, generators, etc. (including single pour concreting as specified on the drawing), applying cement wash on concrete surface (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering, etc., wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT)for all depths below and upto plinth level in any shape, position and thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	615	cum	9,500.00	58,42,500.00
186	**SUPER STRUCTURE - EXCLUDING CONTROL ROOM BUILDING, GUARD ROOM & BOUNDARY WALL**				
187	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUPER STRUCTURE INCLUDING CENTERING & SHUTTERING in suspended floors, slabs, beams, columns, walls including counterforts, staircases, landings, steps, facias, fins, mouldings, gutters, shelves, window sills, canopies, lintels, girders, ducts, brackets, chajjas with drip moulds, pedestals, posts, struts, equipment/ machine foundations, ramps etc. (including single pour concreting as specified on the drawing), providing cement wash (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT) FOR ALL HEIGHTS UPTO & INCLUSIVE OF 20 m ABOVE PLINTH LEVEL in any shape, position, thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	70	cum	9,700.00	6,79,000.00
188	**CONTROL ROOM BUILDING (SUPERSTRUCTURE)**				
189	Construction of Control Room Building as per drawings and specification. Building work for all Superstructure works INCLUDING CENTERING & SHUTTERING , Reinforcement , masonry work, partition wall, Plastering & pointing, flooring, Floor finishes, Door & windows, rolling shutter, false ceiling, all finishes, painting, roof treatment complete in all respect etc.)	215	m2	26,000.00	55,90,000.00
190	**GUARD ROOM (SUPERSTRUCTURE)**				
191	Guard Room as per drawings and specification. Building work for all superstructure works including (Reinforcement, masonry work Plastering & pointing, flooring, Floor finishes, Door & windows, painting, roof treatment, all finishes, water supply and sanitary work complete in all respect etc.)	17	m2	24,500.00	4,16,500.00
192	**HYD Bars / MS Bars**				
193	Supplying and placing in position HIGH YIELD STRENGTH DEFORMED STEEL BARS REINFORCEMENT of Grade Fe500D TMT conforming to IS:1786, for RCC work (excluding control room building & Guard room & boundary wall superstructure) including transporting the Steel, straightening, cleaning, decoiling, cutting, bending to required shapes and lengths as per details, binding with 18 SWG black soft annealed binding wire at every intersection, supplying and placing with proper cover blocks, supports, chairs, overlaps, welding, spacers, fanhooks etc. for all heights and depths etc. all complete as directed. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE	70	MT	95,000.00	66,50,000.00
194	**STRUCTURAL STEEL WORKS (REFER TE SPECIFICATION)**				
195	Supplying, fabricating and erecting of structural steel and applying COATING (Post-erection/ Field) of approved quality and shade as per TE Specification or Job Specifications, wherever applicable) over the coat of shop primer already applied, including storage, surface preparation, degreasing, cleaning, drying, providing necessary arrangement for access, testing etc. including touching up of shop for steel structures (Including Wicket Gate, Main Gate and emergency gate, excluding ladders, spiral stairways & hand rails) at all location & levels, all complete as specified, for UNIT (INLAND) areas considering environment classification as INDUSTRIAL. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE. (Unit rate based on Structural steel weight)	25.5	MT	96,000.00	24,48,000.00
196	**MISCELLANEOUS STEEL WORKS (REFER TE - SPECIFICATIONS)**				
197	MS Chequered Plates				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Oval Projects Engineering Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
198	Supplying, fabricating and erecting in position at all levels and locations bolted, screwed and/or welded M.S. CHEQUERED PLATES of any thickness in walkways, platforms, stairtreads or any other place as directed, etc. cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing, welding, preparation and submission of fabrication drawings and preparing the surfaces for painting and applying shop primer as per TE Specification after fabrication and return of unused/ scrap/ unserviceable chequered plates to Owner's store and material reconciliation etc. all complete as specified and directed	1.5	MT	95,000.00	1,42,500.00
199	Anchor Bolts				
200	Supplying, fabricating, fixing and keeping in position at all levels and locations THREADED ANCHOR BOLTS of all diameters and nomenclature including nuts, washers, anchor plates, pipe sleeves etc. in foundations, columns, pedestals, slabs, beams, walls etc. or any other place as directed including handling & transporting, straightening if required, turning from relevant size M.S. rounds to required diameter, threading, welding, providing necessary templates and auxiliary dummy structures, if any, necessary tying and welding with reinforcement, adjustment of shuttering & reinforcement/any other fixture, greasing exposed metal surfaces, covering bolts and packing the sleeves with jute cloth etc. all complete as specified and directed.(SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.6	MT	95,000.00	1,52,000.00
201	MS Metal Inserts				
202	Supplying, transporting, storing, fabricating and fixing in position M.S. METAL INSERT (with lugs) of any shape made out of flats, plates, rolled sections, pipes etc. providing necessary templates, staging, cutting,straightening, if required, bolting, welding as required and embedding in position on both Plain and Reinforced Cement concrete members inclusive of adjusting shuttering & reinforcement/ any other fixture, welding where necessary, tying and holding to correct level, line and position, any auxiliary dummy structures to support the heavy inserts, painting exposed surfaces with a coat of primer as per TE Specification all complete for all depths and heights as specified and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	0.55	MT	95,000.00	52,250.00
203	MS Grating				
204	Supplying, fabricating and erecting in position at all levels and locations ELECTROFORGED GALVANISED GRATING (purchased from approved manufacturer by the Contractor) conforming to TE STANDARD (in walkways, platforms, stair treads etc.) including cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing with manufacturer's supplied galvanised clamps, preparation and submission of fabrication drawings, all complete as specified and directed (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.85	MT	1,19,000.00	2,20,150.00
205	Hand Railing 1000mm				
206	Supplying, fabricating and fixing in position at all locations 1000mm high INCLINED HAND RAILING (for staircases) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade M.S. Tubes conforming to IS:1239 including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE SPEC. preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	725.00	7,250.00
207	Supplying, fabricating and fixing in position at all locations 1000mm high HORIZONTAL HAND RAILING (for platforms, walkways, etc. or any other location as directed) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade MS Tubes conforming to IS:1239 and 100x5 MS Toe Plate confirming to IS:2062 (Grade A/B), including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE standard drawing & specification, preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	1,025.00	10,250.00
208	**CHAIN LINK FENCING**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Oval Projects Engineering Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
209	Supplying, fabricating and fixing G.I. chain link fencing with 3.5mm dia. wire, 50x50mm diamond mesh chain link fence fabric conforming to IS:2721 fixed to steel/RCC posts/struts above ground level, including supply of chain link fencing fabric in 1.9 metre wide rolls, stretcher bars, staples, etc. required for fixing the fencing, fixing of chain link fencing between straining posts, fixing of bottom of fencing in cement concrete 1:2:4 blocks and painting with synthetic enamel etc. , including supply and fixing line wires, complete as per drawings, specifications and directions of Engineer -in-Charge (All materials shall be supplied by Contractor). (The measurement of chain link fencing shall be on linear basis for 1.9 m wide fencing fabric)	10	M	4,000.00	40,000.00
210	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of the Engineer-in-Charge. Made of G.I. wire of dia. 4 mm, PVC coated to achieve outer dia not less than 5 mm in required colour and shade.	600	M2	675.00	4,05,000.00
211	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Star' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	200	M	325.00	65,000.00
212	**ROADS & FLEXIBLE PAVEMENT (UPTO WBM LAYER)**				
213	Preparation and consolidation of sub-grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth outside the property boundary in the un-disputed areas as directed by Engineer-In-Charge.	1500	M2	780.00	11,70,000.00
214	Supplying and laying of stone aggregate of 63mm down to 45mm size for WBM layer Base Course, tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 75mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding material of plasticity index upto 6%, including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts etc. complete as per drawings, specifications and directions of Engineer-in-Charge	4500	M2	1,450.00	65,25,000.00
215	**CONCRETE PAVEMENTS**				
216	Construction of dry lean cement concrete **(DLC) sub base** over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in- charge.	150	cum	2,150.00	3,22,500.00
217	Providing and laying Reinforced Cement Concrete with 20mm and down size graded crushed stone aggregates in flooring, pavements etc. including leaving pockets, if necessary, making recess/drains, laying in alternate panels, etc. for all depths including shuttering, tamping, curing, providing dowel bars with sleeves/tie bars etc where ever required at site. as specified in any shape, thickness, position and finishing the top surface smooth etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For RCC of M-30 grade concrete (all materials including cement but excluding cost of providing & fixing reinforcement and joint sealing shall be supplied by the contractor).	375	cum	2,250.00	8,43,750.00
218	Providing 20mm wide Expansion Joints in pavement slabs as per general technical specification including cleaning the joints of all loose material, filling with 20mm thick impregnated fibre boards for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved Joint Sealing Compound as per IS:1834 Type-B etc. all complete as per drawings, specifications and directions of Engineer-in-Charge	720	M	2,560.00	18,43,200.00
219	Sealing joint around pedestal and column etc. 20mm wide x 150 mm deep including filling with 20mm thick impregnated fire board for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved joint sealing compound as per IS:1834 Type-B.	300	M	2,500.00	7,50,000.00
220	**RCC PIPE CULVERTS & ELECTRICAL ROAD CROSSINGS ETC. (as per drawing & TE specification)**				

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
221	Supplying and laying in position RCC pipes with collars conforming to IS:458 for pipe culverts, cable crossings etc. including cutting the pipe if necessary, lowering, laying in position to proper levels, slopes etc. caulking the joints with spun yarn soaked in neat cement slurry and finishing with cement mortar 1:2 (1 cement : 2 sand) curing etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For following Class and Internal PIPE DIA (MM). (Dia (internal) - 500 mm, Pipe Class - NP3)	20	M	2,850.00	57,000.00
222	**U/G AND A/G G.I. PIPELINE SYSTEM - WATER SERVICES tender specification**				
223	Supplying and laying mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ ASTM A105 (Galvanized) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, earthwork in excavation for trenches, valve pits, etc. in all types of soil excluding soft and hard rock including laying of pipes in trenches, joining the pipes and fittings with threaded connections, hydrostatic testing of the piping, backfilling the trenches with selected/approved earth fill material, cutting of roads wherever required, making good the road surface after laying, disposal of surplus earth within a lead of 500 m, etc. including supply of necessary fittings etc. complete as per specifications, drawings and directions of Engineer-in-Charge. For following Nom.Size in mm. (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	485.00	4,850.00
224	Supplying and laying above ground mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ASTM A 105 (GALVANISED) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, including laying of pipes on sleeper, walls, including erecting piping on columns, etc. for pump station, overhead tanks, etc. including joining the pipes and fittings with threaded connections, hydrostatic testing of the piping including supply of necessary fittings etc & pipe supports. complete as per specifications, drawings and instructions of Cement Supplied by contractor (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	485.00	4,850.00
225	**MISC. CIVIL AND STRUCTURAL WORKS FOR U/G PIPING AND OTHER CIVIL WORKS**				
226	Providing and laying brick masonry with locally available bricks of specified class (Brick of class lower than specified shall not be accepted) in cement mortar 1:4 (1 cement : 4 Coarse sand) in one or more brick thickness and in any shape in foundation and plinth for valve pits, drains, circular/square manholes, wing walls, etc. including providing recesses, openings, etc. including curing, finishing the joints flush below ground level and raking out joints in plinth with all labour and material, etc. complete as per drawings, specifications and direction of Engineering-Charge. For following Brick Class.	280	cum	6,250.00	17,50,000.00
227	Providing 13mm thick average cement plaster in cement mortar 1:3 (1 cement: 3 sand) on brick walls/stone masonry/pitching or on concrete surfaces for manholes, valves pits, culverts, wing walls, etc. including cleaning and preparation of the surface, scaffolding, curing etc. for all depths and heights complete as per drawings specifications and direction of Engineer-in-Charge. All materials including cement supplied by the Contractor.	750	M2	425.00	3,18,750.00
228	**UNDERGROUND SEWER SYSTEM - RCC PIPES**				
229	Supplying and laying underground R.C.C. pipes sewers with socket and spigot ends conforming to IS:458 of approved make, to proper grade and alignment, including earthwork in excavation in all types of soil except soft and hard rock for pipe trenches, etc. including dewatering, shoring and shuttering if necessary, dressing of sides, leveling, grading and ramming of bottoms, cutting the R.C.C. pipes to required lengths, lowering the pipes, jointing, including connecting the pipes to manholes and grouting the pipe body with manhole wall using cement mortar 1:2 (1 cement : 2 sand), testing, draining of water and cleaning of pipe after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness , watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, including cutting of roads wherever required and making good the same, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit etc. complete for all depths as per drawings, specifications and instructions of Engineer-in-Charge.(All material shall be supplied by contractor) For following Pipe size (mm) and Class(The following pipe sizes are all internal diameter of the pipes)				
230	(Dia (Internal) - 100 mm, Piping Material Class - NP2)	15	M	1,850.00	27,750.00
231	(Dia (Internal) - 150 mm, Piping Material Class - NP1)	15	M	2,580.00	38,700.00
232	(Dia (Internal) - 450 mm, Piping Material Class - NP2)	70	M	4,850.00	3,39,500.00
233	**UNDERGROUND SEWER SYSTEM-HDPE PIPES**				

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234	UNDERGROUND SEWER SYSTEM-HDPE PIPES :- Supplying and laying HDPE pipes conforming to IS:4984 of approved make to proper grade and alignment, including earthwork in excavation for trenches etc. in all types of soil except soft and hard rock including dewatering till completion of subsequent works, shoring and strutting, if necessary, dressing the sides, leveling, grading and ramming the bottom, jointing the pipes using hot plates as per manufacturer's recommendation, lowering, providing and laying 1:5:10 (1 cement : 5 sand : 10 aggregate) plain cement concrete of minimum 100mm thickness on bottom and side of pipe as directed, connecting the pipes to manholes and grouting the pipes to manhole/valve chamber walls, including supplying and fixing the specials and fittings, such as bends, reducers, tees, elbows, caps etc. conforming to IS:8008 or fabricated from pipes as per specification, supplying and fixing of flanges, fixing of online valves, including fixing of bolts, nuts and gaskets etc. as per specifications, testing, draining of water and cleaning of pipes after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness, watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit, cutting of road wherever required, making good the same etc. complete for all depths as per drawings, specification and instruction of Engineer-in- Charge. For the following nominal diameter (mm) Pressure Rating(Kg/Cm2). (Dia (Internal) - 80 mm, Pressure Rating - 2.5 Kg/sqcm)	50	M	850.00	42,500.00
235	**PLUMBING AND BUILDING DRAINAGE**				
236	Supplying and fixing approved quality Cast Iron soil/waste pipe conforming to IS:1729 below ground with necessary specials, bends such as Y-junction, T- junction (both single and double) including plugs, shoes, cowls, jointing with lead caulked joints and testing, cutting in floors, earth work in excavation, encasing the pipe in 50mm THK, PCC M20, backfilling and removal of surplus earth upto a lead of 50M etc. complete as per drawings, specifications and directions of Engineer-in-Complete				
237	100mm dia (All materials including cement supplied by contractor)	10	M	850.00	8,500.00
238	80mm dia (All materials including cement supplied by contractor)	10	M	760.00	7,600.00
239	**Supplying and fixing gun metal globe valve conforming to IS:778, complete as per specifications and directions of Engineer-in-Charge.**				
240	Dia - 50 mm	2	Nos	5,980.00	11,960.00
241	**Constructing of brick masonry valve chamber in 1:4 Cement mortar(1 cement: 4 sand) with CI frame & cover fixed on M-20 grade cement concrete , necessary excavation, M-20 grade foundation concrete, 13mm thick 1:3 cement plaster on inside & all exposed surfaces, backfilling, removal of surplus earth for all leads within the complex limit etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge. For following Valve size and Brick Class (All materials including Cement supplied by contractor)**				
242	Dia - 50 mm, Brick Class - 5)	2	EACH	1,05,000.00	2,10,000.00
243	Providing and fixing approved stone ware 100mmx100mm dia. gully trap as per tender specification, including grating with CI frame and cover 300mmx300mm including brick masonry (brick class shall be as mentioned below) chamber in 1:4 cement mortar(1 cement: 4 sand) on M-20 grade cement concrete foundation, plastered inside and outside surfaces with 1:3 cement mortar (1 cement: 3 sand) with 13mm average thickness including providing and fixing light duty CI frame and cover, painting CI frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat, earth work in excavation, backfilling, removal of surplus earth, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry etc. all complete as per drawings, specifications and directions of Engineer-in-Charge				
244	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	31,500.00	63,000.00
245	Construction as per(Design basis & general technical specification) of brick masonry (brick class shall be as mentioned below) inspection chambers/manholes of 750mmx750mm internal size 1000mm deep(Max.) in cement mortar 1:4 (1 cement: 4 sand) with CI frame and cover 500mm clear dia, (circular Medium duty of grade MD-10) conforming to IS:1726 fixed on RCC slab of M-30				
246	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	45,000.00	90,000.00
247	Construction, supplying, installation, testing and commissioning of septic tank as per standards and IS:2470 Part-I , with all necessary accessories like inlet, outlet vent pipes, manhole covers, rungs etc. including earthwork in excavation in all type of soil except soft and hard rock, backfilling and disposal of surplus earth for all leads etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge				
248	All material including cement supplied by contractor for (Users - 10 NOS)	1	Nos	34,500.00	34,500.00
249	**MISCELLANEOUS ITEMS**				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Oval Projects Engineering Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
250	Supplying and fixing in position entrance gate in complex boundary wall fencing manufactured out of steel frame work and square MS bars of 20 mm at 100 c/c and horizontal name plate band at lock rail level suitably hinged with box type steel post embedded in cement concrete i.e. providing the tension bar for smooth operation and locking arrangement etc. complete as per tender specification, including painting with two coats of anti-corrosive paint and two coats of approved aluminium/synthetic enamel paint etc. complete as per drawings, specifications and directions of Engineer-in-Charge.				
251	4.0M clear opening width of gate in two panels.	3	Nos	1,10,000.00	3,30,000.00
252	Supplying & Laying interlocking Paver Blocks for roads, footpaths and any other place etc. including providing 50 mm thick sand filling below Paver Blocks including compaction of sand layer, filling the joints by dry sand, providing precast kerb stone of PCC M-20 at edges, including preparation of compacted sub-grade etc. all complete as per drawing, standard and directions of Engineer-in-Charge. (All material including cement supplied by contractor, paver blocks shall confirm to IS: 15658. cloour and shape of paver block shall be as per owner requirements for following thickness of paver blocks				
253	**(Thickness - 60 mm)**	285	M3	1,145.00	3,26,325.00
254	Supply and installation on terrace, high density polyethylene drinking water circular tank as per IS:12701 and ISI marked including supply and installation of all fittings, cover with suitable locking arrangement, float valve, making necessary holes for inlet, outlet and overflow connection and vent pipe etc. and the base supports for tank including supply of all necessary material all complete as per specifications and directions of Engineer-in-charge. (Sintex or equivalent having valid ISI license) for following capacities.				
255	**capacity - 500 litre**	2	Nos	8,540.00	17,080.00
256	Supplying, installation, testing and commissioning of Upflow Anaerobic Filter with bleaching tank as per TE Std. Drawing with all necessary accessories like, Upstream inlet CI piping from septic tank, Downstream outlet RCC NP2 class piping up to surface storm water drains, CI pipes for filter chamber, CI valve, RCC pre-cast pit covers, steps, perforated pre-cast slabs etc., inlet chamber, Filter chamber, deluding chamber including earthwork in excavation in all type of soil including soft rock, backfilling with murrum or approved soil arranged by the contractor, disposal of surplus earth etc. complete as per drawings, specification and direction of Engineering-Charge (All materials including cement shall be supplied by the contractor, Brick Class lower than 5.0 shall not be used).	1	Nos	51,500.00	51,500.00
257	**DEMOLISHING AND DISMANTLING**				
258	**Brickwork**				
259	**Demolishing BRICKWORK** (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	1,750.00	17,500.00
260	**Demolishing BRICKWORK** (taking all necessary safety precautions) for all heights **above plinth level** including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	1,950.00	19,500.00
261	**RCC**				
262	**Demolishing RCC WORK** (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	1,450.00	14,500.00
263	**Demolishing RCC WORK** (taking all necessary safety precautions) for all heights **above plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	2,040.00	20,400.00

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
264	**PCC**				
265	**Demolishing PLAIN CEMENT CONCRETE** work (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc. disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation and backfilling shall be paid separately under relevant items)	10	cum	1,850.00	18,500.00
266	**MISCELLANEOUS ITEMS (REFER TE SPECIFICATION)**				
267	**Sand Filling**				
268	Supplying and filling approved SAND of specified quality under floors, in foundations, plinths, tank foundations etc. for all depths and heights including cost of sand,royalties,transportation to site for all leads and lifts, including loading, unloading, spreading in layers of loose thickness not exceeding 150 mm,watering,ramming,compacting with mechanical compactors and/or other equipment to the specified levels to achieve 85% relative density as per IS:2720 Part XIV,including preparation of subgrade to the required slope, providing testing apparatus and testing the degree of consolidation all complete as per drawings, specifications and direction of Engineer-in-charge. The rates shall be inclusive of the cost of all labour,material,equipments etc. all complete .	100	cum	1,005.00	1,00,500.00
269	**SAND GRAVEL MIX**				
270	Supplying and filling sand gravel mix (1:1) with approved aggregate below road, RCC pavement, manholes, pits, foundations, bedding of UG piping etc. in layers of 150 mm loose thickness (maximum) including watering, ramming, rolling, compacting to achieve 85% relative density as per IS 2720 Part-XIV, quarrying, royalties, transportation, handling, etc. all complete as per drawings, specifications and directions of Engineer-in- Charge. (The rate shall be inclusive of the cost of all labour, material, equipment etc. all complete)	105	cum	1,650.00	1,73,250.00
271	**GROUTING WITH NON-SHRINKABLE COMPOUND**				
272	Providing and laying manually or by pumping at all positions a ready mix non-shrink cementitious grout of compressive strength specified below for specified works e.g. pipe support, base grouting of rotating equipment and other installation complete in all respects as per scope of work, detailed construction drawings , technical specifications and directions of the Engineer-In-Charge.				
273	Having compressive strength of 30 N/mm2 , Per bag of 25 Kg	100	Bags	3,000.00	3,00,000.00
274	Having compressive strength 45 N/mm2 , Per bag of 25 Kg	20	Bags	3,500.00	70,000.00
275	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains, SS trench of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.	7.5	m2	925.00	6,937.50
276	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, leve and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	13.5	cum	1,050.00	14,175.00
277	Providing and fixing factory made precast RCC **perforated drain covers**, having concrete of strength not less than M-25, of size 1000x450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos. cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of the Engineer-In-Charge.	515	EACH	410.00	2,11,150.00
278	**Borewell and recharge well**				
279	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job all complete as per drawing, direction of Engineer -in-charge, in all types of soil :	130	M	3,500.00	4,55,000.00

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
280	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge.	130	M	275.00	35,750.00
281	Providing and fixing Bail plug/ Bottom plug of required diameter to the bottom of pipe assembly of tubewell as per IS:2800 (Part-I). :150mm dia	3	EACH	4,500.00	13,500.00
282	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	1,500.00	7,500.00
283	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	1,500.00	7,500.00
284	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	1,359.00	6,795.00
285	Gravel packing in tubewell construction in accordance with IS:4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of the Engineer-In-Charge.	3	cum	1,500.00	4,500.00
286	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS:4270, of reputed & approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size dia having minimum wall thickness 5.00 mm	5	M	3,500.00	17,500.00
287	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	60	M	275.00	16,500.00
288	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/ 3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS:8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	25	M	3,500.00	87,500.00
289	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of 150 mm diameter	1	Nos	2,450.00	2,450.00
290	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS:2800 (Part-I), including necessary bolts & nuts of required size complete 150 mm diameter.	1	Nos	250.00	250.00
291	Supply, Installation and commissioning of 1.5HP Borwell Submersible Pump	1	EACH	35,459.00	35,459.00
292	Supply and Installation of 3Cx10Sqmm Copper Flat Cable	200	M	125.00	25,000.00
293	**LANDSCAPING**				
294	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment).	335	cum	575.00	1,92,625.00
295	Fine dressing of the ground.	1105	M2	40.00	..200.00

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296	Providing & laying Selection no. 1 grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden and than rolling the surface with light roller make the surface smoothen and light watering the same maintenance for 30 days or more till the grass establish properly,as per direction of officer in charge	1105	M2	725.00	8,01,125.00
297	Conducting topographical ground/land survey in the specified area as shown in the tender drawings by conventional/GPS or any other standard method, covering details of physical features like Rivers, Nallahs, Lakes, Ponds, wells, pits, Forest, Trees, Roads, culverts, transmission lines, telegraph/ telephone and electric poles, underground or any other services, cross drainage works including cross sectional details of nallah etc. including establishing high flood level with source of information, identification of any monument, historical structure, wild life sanctuary in the vicinity, storm water disposal point with levels, cross-section details of nallah, recording spot levels, top level of nearest state highway or National Highway, including providing in tabulation girth wise no. of trees etc as specified, plotting and developing topographical contour maps, showing true north including establishing survey reference stations, key plan etc. including all equipment's, instruments, personnel's, clearing of bushes as per requirement for intervisibility to carry out survey work etc. , complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of drawings/map and supply of electronic files. Note: Survey work shall be carried out by survey agency approved by Contractor and sample spot witness of levels cordinates by PMC, and shall be submitted to PMC/Owner for review.Survey drawing will be provided in A0 size with clear visibility of all the spots/levels/ contoure and Bench marks. Permanaet bench mark will be stabished at site in a 450x450 mm size 600mm high bick masonry piller.	4220	M2	20.00	84,400.00
298	**GEO TECHNICAL INVESTIGATION (Z/02/0022)**				
299	Conducting soil investigation with boring including all field tests and laboratory tests, mobilization and demobilization of equipments & personnel etc. for soil investigation for each borehole location. complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of Reports & recommendations and supply of electronic files.	5	Nos	72,500.00	3,62,500.00
300	**ANTI-TERMITE TREATMENT**				
301	Supplying chemical emulsion in sealed containers including delivery as specified in the Technical Specifications.				
302	Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	200	LITRE	825.00	1,65,000.00
303	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
304	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc. as per Techinal specifications and direction of engineering in charge: With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	80	METRE	25.00	2,000.00
305	Treatment of soil under floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the floor:				
306	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	250	SQM	15,000.00	37,50,000.00
307	Supply and installation 60mm dia GI pipe for column support of gate	15	M	800.00	12,000.00
308	Supply and installation 100mm dia MS pipe	15	M	3,500.00	52,500.00
309	Supply and installation 50mm dia MS pipe	15	M	1,050.00	15,750.00
310	Supply and installation of U-PVC pipes (working pressure 4 kg / cm²) Single socketed pipe 75 mm dia for weep holes	200	M	258.00	51,600.00
311	**Sub-Total Section C**				**4,97,02,006.50**
312	**SECTION-D [CATHODIC PROTECTION WORKS]**				
313	**CATHODIC PROTECTION SYSTEM**				

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314	**Cathodic Protection system**				
315	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning & Monitoring of the temporary cathodic protection [TCP] system using galvanic anodes to protect the external surface of the pipeline against soil-side corrosion for minimum 2 year or till commissioning of permanent CP system whichever is later . All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard drawings and vendor list as attached with this tender and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	10,00,000.00	10,00,000.00
316	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning of permanent cathodic protection system for 40 years. The scope of work also includes post commssoning surveys and repair of coating/ rectification of cathodic protection system based on the post commissioning surveys. In additon to the same, AC Interference study on the pipelines to be performed and mitigation measures takes to the satisfaction of Owner/ CONSULTANT. All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard and vendor list attached and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	32,90,000.00	32,90,000.00
317	**Sub-Total Section D**				42,90,000.00
318	**SECTION-E [ELECTRICAL WORKS]**				
319	**ELECTRICAL**				
320	**SWITCH BOARDS / UPS SYSTEM/ PANEL**				
321	Supply , Installation, testing and commissioning of LT Switch-boards, AC UPS system with UPS Distribution board & Ni-Cd Battery banks , distribution boards, cubicles with electrical equipment, misc. electrical panels etc., including transportation from store/yard to site at the place of installation, unpacking, assembly, including mounting and wiring of loose parts supplied by equipment vendor, interconnection of shipping sections and requisite inter-panel wiring between shipping sections, including supply of all wiring materials, installation on foundations or fixing to wall or steel structures, aligning, levelling, grouting, including all labour and materials, as per approved drawings, specifications of this tender and directions of Engineer-in-Charge.				
322	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted MEDB	1	Nos	6,85,000.00	6,85,000.00
323	Supply , erection , termination , earthing and commissioning of wall mounted OLDB as per single line diagram of DT stations	1	Nos	1,35,000.00	1,35,000.00
324	Supply , erection , termination , earthing and commissioning of wall mounted ILDB as per Single line diagram of DT stations	1	Nos	1,34,000.00	1,34,000.00
325	Supply , erection , termination, earthing and commissioning of wall mounted SSDB as per Single line diagram of DT stations	1	Nos	85,000.00	85,000.00
326	Supply , erection , termination , earthing and commissioning of wall mounted AC DB as per Single line diagram of DT stations	1	Nos	85,000.00	85,000.00
327	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 6 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of DT stations	1	SET	15,00,000.00	15,00,000.00
328	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for DT stations.	1	SET	17,00,000.00	17,00,000.00

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329	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 1 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of RT stations	1	SET	3,50,000.00	3,50,000.00
330	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for RT stations.	1	SET	18,00,000.00	18,00,000.00
331	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted Emergency DB	1	Nos	85,000.00	85,000.00
332	Supply , erection , termination , earthing and commissioning of 32A, 4P, 25kA Auto Change-Over switch as per Single line diagram of DT station-JHARIA	1	Nos	1,45,000.00	1,45,000.00
333	**POWER AND CONTROL CABLE**				
334	Supply , laying , termination , erection and testing of 1.1 KV Power and control FRLS PVC Outersheath, XLPE insulated, armored Cables . Outdoor cable will be laid in buried cable trench and in Indoor cable will be laid in Cable trench by provision of Cable tray and supports inside the trench as per PTS - Electrical package P.017110 G 11077 E002				
335	3.5C x 95 sqmm AL FRLS XLPE	300	M	575.00	1,72,500.00
336	3.5C x 70 sqmm AL FRLS XLPE	300	M	475.00	1,42,500.00
337	3.5C x 50 sqmm AL FRLS XLPE	50	M	385.00	19,250.00
338	3.5C x 25 sqmm AL FRLS XLPE	100	M	325.00	32,500.00
339	4C x 16 sqmm CU FRLS XLPE	100	M	925.00	92,500.00
340	3C x 2.5 sqmm CU FRLS XLPE	170	M	235.00	39,950.00
341	3C x 6 sqmm CU FRLS XLPE	250	M	295.00	73,750.00
342	4C x 6 sqmm CU FRLS XLPE	350	M	365.00	1,27,750.00
343	2C x 6 sq.mm CU FRLS XLPE	100	M	255.00	25,500.00
344	2.5 sqmm Cu. Wire	1800	M	195.00	3,51,000.00
345	6 sqmm Cu. Wire	600	M	245.00	1,47,000.00
346	**Earthing & Lightning**				
347	Supply , Installation , testing and comissioning of GI Earth electrodes & Cu plate type earth pit complete with earth pit as per IS 3043, PTS-Electrical package and all necessary material including exacavation of earth pit , filling with charcol and salt , back filling, brick work , connections including all labour and materials as approved drawing and specification of this tender and direction of Engineer-In charge.				
348	GI Earth Electrodes				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
349	65mm dia x 3000 mm L GI pipe electrode type Earth pit	17	Nos	16,700.00	2,83,900.00
350	**Cu plate Earth Electrode**				
351	600x600x3mm Cu plate type Earth pit	8	Nos	19,500.00	1,56,000.00
352	**Earth strip and wire**				
353	50x 6 mm GI Flat strip	850	M	395.00	3,35,750.00
354	25 x 6 mm Cu Flat strip	50	M	350.00	17,500.00
355	2.5 Sqmm Cu wire	250	M	48.00	12,000.00
356	25 x 6 mm GI Flat strip	200	M	235.00	47,000.00
357	10 Sq.mm earthing cable	250	M	192.00	48,000.00
358	GI Earth Bus 50x 6 Sq.mm with all installation assesories	3	Nos	956.00	2,868.00
359	Cu. Earth Bus 50x 6 Sq.mm with all installation assesories (in control room)	4	Nos	1,595.00	6,380.00
360	25x3 mm GI Flat for Lightning as well as down conductors for DT station as per overall earthing layout and GGNG-E-20713-3007	80	M	235.00	18,800.00
361	Other lightning assesories like 20mm dia copper rod, hollosphere ,200x200x6mm ms plate ,anchor/fastner ,test links for DT station as per overall earthing layout and GGNG-E-20713-3007	1	LOT	95,000.00	95,000.00
362	**OUTDOOR Lighting**				
363	Supply , erection , Testing & commissioning of Outdoor area lighting system including with supply of flameproof / weather proof light fixture , pole , junction box and earthing including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender & Overall outdoor lighting layout of DT & RT station and directions of Engineer- In charge.				
364	100W FLP LED Fixture & FLP Junction box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	4	Nos	1,05,000.00	4,20,000.00
365	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	2	Nos	1,25,000.00	2,50,000.00
366	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in RT Stations.	7	Nos	1,25,000.00	8,75,000.00
367	1x160W FLOOD LED Fixture with weather proof junction box & 9 mtr high pole with all assesories for open area	6	Nos	35,700.00	2,14,200.00
368	1x70 W Solar type Street LED Fixture with weather proof junction box, VRLA Battery (72 hrs backup time) & 9 mtr high pole for street lighting	4	Nos	75,000.00	3,00,000.00
369	1x27 W Post Top Lantran LED Fixture for Gate with weather proof junction box for Gate lamp	2	Nos	13,800.00	27,600.00

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M/s. Oval Projects Engineering Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
370	1x36 W LED industrial fixture suitable to building parapet /wall with all assesories like weather proof junction box/clamp/reducer/	2	Nos	12,500.00	25,000.00
371	**INDOOR Lighting**				
372	Supply, erection, Testing & commissioning of Indoor building area lighting system including with supply of light fixture, point wiring including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender and directions of Engineer- In charge.				
373	2x20 W LED recessed decorative fixture for control room	5	Nos	8,750.00	43,750.00
374	2x20W LED Industrial Fixture for Electrical room	2	Nos	8,750.00	17,500.00
375	1x40W LED Flameproof Fixture for Battery room	1	Nos	7,250.00	7,250.00
376	2x18W LED Industrial Fixture for Varanda/Toilet/ water cooler area/ Guard room	6	Nos	5,200.00	31,200.00
377	1x36W LED Industrial Fixture	4	Nos	5,450.00	21,800.00
378	2x20 W LED recessed decorative fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) control room.	2	Nos	19500	39,000.00
379	2x20W LED Industrial Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Electrical room	2	Nos	19,500.00	39,000.00
380	1x40W LED Flameproof Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Battery room	1	Nos	18,450.00	18,450.00
381	**Switch socket**				
382	Supply and Installation of single/ three phase Switch socket as per Indoor Illumination layout for DT & RT and PTS-Electrical Package and directions of Engineer-In Charge				
383	5/15A surface type switch socket (1 Ph)	7	Nos	1,285.00	8,995.00
384	5A flush type switch socket (1 Ph)	4	Nos	1,005.00	4,020.00
385	16A Switch socket (I Ph)	3	Nos	1,350.00	4,050.00
386	20A Switch socket for AC (1 Ph)	4	Nos	3,850.00	15,400.00
387	Flame proof Junction box for Exhaust fan in Battery room	2	Nos	3,800.00	7,600.00
388	32A Switch socket for welding receptacles (3 Ph)	1	Nos	5,200.00	5,200.00
389	Modular switch board	12	Nos	1,850.00	22,200.00
390	**FANS and Exhaust FAN**				

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Oval Projects Engineering Pvt. Ltd.

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391	Supply ,Installation and testing of Ceiling Fan and Exhaust fan with louvers including all labours and materials as per Indoor Illumination layout for DT and PTS-Electrical Package and directions of Engineer-In Charge				
392	Ceiling Fan 230V AC 1200 mm sweep	3	Nos	3,500.00	10,500.00
393	450 mm FLP Exhaust Fan for Battery room	2	Nos	17,500.00	35,000.00
394	200 mm Exhaust Fan for Toilet	1	Nos	3,500.00	3,500.00
395	300 mm Exhaust Fan for Electrical room/ CO2 room	3	Nos	4,850.00	14,550.00
396	**Air conditioning unit**				
397	Supply ,Installation and testing of Five star 1.5 Ton Split AC with outdoor compressor unit including all labours and materials as per Typical Indoor Illumination layout for DT and directions of Engineer-In Charge				
398	Split Air condition Five star 1.5 Ton	4	Nos	49,500.00	1,98,000.00
399	**Hardware and other Accessories**				
400	Supply and Installation of Hardware and other accessories including all labours and materials as per Tender specification PTS-Electrical Package P.017110 G 11077 E002 and directions of Engineer-In Charge				
401	Rubber mat	15	M	1,690.00	25,350.00
402	Rubber hand gloves	1	PAIR	850.00	850.00
403	Warning Marker	1	Nos	1,150.00	1,150.00
404	PVC Conduit with bend ,tee and other required assesories	1	LOT	1,58,000.00	1,58,000.00
405	CAUTION Board & Sock treatment chart	1	Nos	2,500.00	2,500.00
406	Cable route marker as per Standard drawing TE-IN-STD-G-0327	1	LS	48,000.00	48,000.00
407	Fire extingusher and SAND Bucket with Stand	1	SET	26,000.00	26,000.00
408	Ladder type Cable tray - hot dip Galvanized Prefabricated 450 mm wide	55	MTR.	1,950.00	1,07,250.00
409	Perforated type Cable tray hot dip Galvanized Prefabricated 450 mm wide	35	MTR.	1,950.00	68,250.00
410	Cable Glands				
411	Cable Glands : Flame proof IIA/IIB double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
412	Cables with upto OD 20 mm & above OD 20 mm as per Single line diagram of DT & RT station	1	LOT	2,00,000.00	2,00,000.00
413	Cable Glands : Weather proof double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
414	Cables with upto OD 20 mm to 40 mm as per Single line diagram of DT & RT station	1	LOT	2,00,000.00	2,00,000.00
415	**Sub-Total Section E**				**1,24,47,513.00**
416	**SECTION-F [INSTRUMENTATION WORKS]**				
417	**INSTRUMENTATION**				
418	**SUPPLY**				
419	Supply of Pressure Transmitter along with 2 valve manifolds with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	48,500.00	2,42,500.00
420	Supply of Pressure gauge including high range along with 2 valve manifolds with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	18	Nos	18,500.00	3,33,000.00
421	Supply of Pressure gauge including Low Range along with 2 valve manifolds, gauge saver with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	3	Nos	16,500.00	49,500.00
422	Supply of temperature element (RTD) along with flanged thermowell mounted for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	21,500.00	1,07,500.00
423	Supply of Temperature Transmitter with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	7	Nos	38,500.00	2,69,500.00
424	Supply of skin type temperature element (RTD) for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I003), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	2	Nos	17,800.00	35,600.00

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425	Supply of Local control panel with all accessories as per Data sheet (P.017110 G 11087 I011), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, SAT of local control panel,supports/ frame fabrication, earthing and screwing plug for unused entries, painting and integration with RTU. Termination of all Other panel SCADA hard wired signal including RS-485 signals through LCP for RTU/SCADA by Bidder. 1. Digital Barriers 2. Analog Barries 3. Relays 4. three poisition selector switch 5. LED indication lamps 6. Push buttons 7. terminal blocks 8. internal wiring 9. MCBs 10. Door switches 11. cooling Fan 12. LED lights	2	Nos	6,10,000.00	12,20,000.00
426	Supply of Ex-proof junction box with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, iincluding Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.	4	Nos	25,800.00	1,03,200.00
427	Supply of Corrosion Monitoring system with corrosion coupon, Corrosion probe, transmitter and digital indicator (mounted in LCP) as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
428	Corrosion coupon along with accessories.	2	Nos	76,000.00	1,52,000.00
429	Corrosion probe along with transmitter, digital indicator, barriers and accessories.	2	Nos	9,50,000.00	19,00,000.00
430	Supply of Conventional Type Microprocessor based fire detection system along with smoke detector, heat detector, cabinet, manual call point, Independent 24 Hrs battery backup with 15 min in alarm state, repeater panel and Electrical Operated Siren, exit signs and cables fromsensor ,MCP, siren, hooter to controller as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
431	Controller along with cabinet along with cabling	1	Nos	1,39,000.00	1,39,000.00
432	Multisensor (smoke & heat)	10	Nos	4,800.00	48,000.00
433	WP IP 65 Manual call points	6	Nos	4,900.00	29,400.00
434	Ex Proof and WP IP 65 Manual call point	1	Nos	19,500.00	19,500.00
435	WP Hooter & Flasher	1	Nos	24,500.00	24,500.00
436	Repeater panel	1	Nos	75,000.00	75,000.00
437	Exist sign	6	Nos	14,500.00	87,000.00
438	Electrical siren Exd	1	Nos	42,500.00	500.00

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439	24 Hrs battery backup	1	Nos	2,400.00	2,400.00
440	Supply of Conventional type gas detection system along with controller, ex proof point gas detectors, beacon hooter, flasher, , cabinet, portable gas detector, calibration kit, alignment kit as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
441	Controller with cabinet	1	Nos	4,45,000.00	4,45,000.00
442	Point gas detectors	12	Nos	1,42,000.00	17,04,000.00
443	Panel Mounted hooter	2	Nos	26,000.00	52,000.00
444	Dual tone Hooter & Beacon Ex"d" with reset push button	2	Nos	26,000.00	52,000.00
445	Portable gas detecotrs	1	Nos	65,000.00	65,000.00
446	Calibration kit	1	Nos	2,85,000.00	2,85,000.00
447	Ex d Junction Box	2	Nos	23,500.00	47,000.00
448	Supply of Universal type Hand Held Configurators for transmitters with carrying case, rechargeable batteries (one working and one standby), and battery charger as per Data sheet,PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work	1	Nos	4,65,000.00	4,65,000.00
449	Supply of Instrumentation signal cable, control cable, communication cable/LAN cable, Power cables along with all sizes cable glands (WP & Exd), PVC hood, lug, ferrule, etc including Cable laying (buried as well as tray) along with termination, glanding, meggering and loop checking including supply of ferrule, lugs, cable tie, cable clamp, cable marker etc. as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.				
450	1Px 1.5mm2	500	MTRS.	148.00	74,000.00
451	12Px 0.5mm2	900	MTRS.	495.00	4,45,500.00
452	1Qx1.5mm2	30	MTRS.	198.00	5,940.00
453	12Tx1.5mm2	200	MTRS.	685.00	1,37,000.00
454	1Tx1.5mm2	180	MTRS.	215.00	38,700.00
455	6Px0.5mm2	200	MTRS.	298.00	59,600.00
456	2Px1.5mm2	200	MTRS.	195.00	39,000.00
457	Cat 5 (LAN)	160	MTRS.	135.00	21,600.00
458	3C x 2.5mm2	240	MTRS.	149.00	35,760.00

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459	Supply & laying of Instruments cable tray with tray cover (Branch Cable tray (50mm x 50mm), Main cable tray 900 mm, cable tray 300mm, cable tray 150 mm.) as per requirement, instruments/ PGD, CCTV/ mounting poles, instrument protection sun sheds, angles, channels, MS plates & all the erection materials and as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including installation of support, cable clamping, installation of tray cover and support painting.	1	LS	6,45,000.00	6,45,000.00
460	Supply , installation & laying of tubes and fittings as per requirement and as per PTS-Instrumentation with appendices and Scope of Work C&I. SS 316L TEE (1/2", Class 3000#, Screwed, NPTF, Seamless) ,SS316L GLOBE/BALL VALVE (1/2", Class 800#, Screwed, NPTF, Seamless), SS316L PLUG (1/2", Screwed, NPTM, Hex head, class 3000#), SS316L PIPE NIPPLE (½" NPTM, seamless, schedule #160) Length of the pipe nipple as per requirement, SS316L MALE CONNECTOR (1/2" OD x 1/2" NPTM), SS316L FEMALE CONNECTOR (1/2"OD x 1/2" NPTF), SS316L UNION (1/2" OD), SS316L TUBE (1/2" OD x 0.065" WT), SS316L TUBE (1/4" OD x 0.035" WT)	1	LS	9,95,000.00	9,95,000.00
461	Supply of mandatory spares as per Mandatory Spare (P.017110 G 11075 I001)	1	LS	2,25,000.00	2,25,000.00
462	AT Jharia - Installation of metering skids, metering cabinet under the supervision of skid supplier, cable laying and terminal of cable from skid junction box to metering system cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	1,35,000.00	1,35,000.00
463	At Jharia Installation of gas chromatograph skid, analyser & controller cabinet under the supervision of skid supplier, cable laying and terminal of cable from analyser cabinet to controller cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	1,25,000.00	1,25,000.00
464	At Jharia Installation of H2S & Moisture analyser skids, cabinet under the supervision of skid supplier, laying and terminal of cable from skid field mounted cabinet to LCP/RTU. Including supply of all the required erection, fabrication and civil materials.	1	LS	1,15,000.00	1,15,000.00
465	At SV 28 Spare Input output available in existing RTU, internal wiring at site, field connection, configuration and commissioning., interfacing with LCP and configuration of new parameters in existing RTU, as per Scope of Work.	1	LS	1,15,000.00	1,15,000.00
466	**Sub-Total Section F**				**1,12,07,200.00**
467	**SECTION-G [TELECOM WORKS]**				
468	Supply Telecommunication system, SDH equipment STM-4 Based SDH Cabinet of (2000H x 800W x 800W along with 100 mm base frame) as per below configuration: - 2*STM-4 + 2*STM-1 + 8FE ports as per PTS-Telecommunication system (P.017110 G 11077 I002), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including erection, testing, integration with existing NMS at Noida, Commissioning and integration with existing telecom system at SV 28 additional SFP of L4.2 for SV 28 connectivity	1	Nos	1,75,000.00	1,75,000.00
469	Supply of CCTV-IP based Fixed colour camera and PTZ colour camera along with power cable, communication cable at each station as per PTS-Telecommunication system (P.017110 G 11077 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work., including erection, testing, integration with existing VMS at Noida, Commissioning and integration with existing telecom system at SV 28				
470	Fixed Camera WP IP65	1	Nos	3,500.00	3,500.00
471	PTZ camera WP IP65	1	Nos	4,500.00	4,500.00
472	Supply of one Analog phones control room, one number in guard room and one number WP IP66 in field safe area as per PTS-Telecommunication system (P.017110 G 11077 I002) , PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work				
472	Analog Phone	2	Nos	2,500.00	00.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Oval Projects Engineering Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
474	Analog Phone Ex Proof WP IP 65	1	Nos	3,500.00	3,500.00
475	FXO cards	1	Nos	4,500.00	4,500.00
476	FXS	1	Nos	1,500.00	1,500.00
477	Five pair armoured telephone cable, size 0.5mm2	100	MTR.	125.00	12,500.00
478	AT Jharia- Free issue RTU by GAIL: Transportation from Gail store to site location, installation, cabling from LCP to RTU, commissioning etc. Erection, installation of RTU inside the station control room including supply of all the required erection materials, fabrication and civil works	1	LS	35,000.00	35,000.00
479	At SV 28 Spare Input output available in existing RTU, internal wiring at site, field connection, configuration and commissioning., interfacing with LCP , cable laying from LCP to RTU, and configuration of new parameters in existing RTU, as per Scope of Work.	1	LS	35,000.00	35,000.00
480	**Sub-Total Section G**				**2,80,000.00**
	Total of Section A + B + C + D + E + F + G				**12,69,96,689.50**
479	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Total of Section A + B + C + D + E + F + G above	18	percentage	18	2,28,59,404.11
480	Rate of Extended Stay Compensation per month beyond the time schedule and grace period mentioned in Bidding document for reasons solely attribute to Owner (exclusive of GST) Notes:- 1;- Extended Stay Compensation shall be loaded on the quoted price as per evaluation methodology. 2;- In case, no rate for extended stay compensation is stipulated, it will be considered that extended stay compensation is not required by the Bidder and the rates quoted by them shall be valid till completion of works in all respects.	1	Nos	1,50,000.00	1,50,000.00
481	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Extended Stay Compensation at Sl. No. 480 above	18	percentage	18.00	27,000.00
	Grand Total				15,00,33,093.61

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Potaliya Enterprises

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
				UNIT RATE	TOTAL RATE
1	**SECTION-A (MAIN LINE WORKS)**				
2	**CH.0.00 KM to CH.5.667 KM**				
3	**MAINLINE, PIPING AND MECHANICAL**				
4	PIPELINE LAYING / INSTALLATION Laying/ installation of coated line pipe, associated fittings and accessories, etc. as per specifications, drawings, other provisions of Contract and instructions of Engineer-in-Charge, including but not limited to carrying out the following: "Receiving and taking-over", handling, loading, transportation and unloading of Owner supplied coated and bare line pipes and other Free Issue Materials from Contractor's own stock-yard to Work site including stringing on the pipeline Right-of-Use (ROU), Arrangement of all additional land required for Contractor's storage, Performing the additional survey wherein survey data is not sufficient in the opinion of Contractor, arrangement of working RoU if RoU width is not sufficient for equipment/ vehicle movement etc., access for construction (other than Owner provided ROU; Developing necessary access way to the worksite, including earth filling, levelling, etc.; supply of all materials (except Owner supplied materials), supply of all materials, consumables, equipment, labour, etc.; fabrication, Staking and installation of construction markers, clearing, grubbing, grading (as required) of Right of Use; clearing and grading of ROU; Cutting/ uprooting of shrubs, plants, vegetation within ROU; , Trenching to all depths and to a width to accommodate the pipeline with optical fiber cable (inside HDPE Duct) by excavation in all types of soil (in case of hard rock, additional payment for hard rock breaking will be paid as per separate SOR line item), including additional trenching for seismic and other areas as specified,(Rate for laying of optical fibre cable and HDPE Duct not be included here and same to be quoted against separate SOR item); Carrying out repairs of pipe and coating defects not attributable to Owner; Thorough internal cleaning of all pipes by suitable methods to remove debris, shots, grits etc.; Stringing of line pipes along ROU including providing straw bags, soft padding/sand padding; Aligning, cold field bending, cutting and beveling (as required) of pipes for welding and field adjustments, NDT & NDT of re-beveled area, welding, carrying out destructive & non- destructive testing of welds required as per approved NDT specifications (including radiography) and providing all requisite equipment, labour, supervision, materials, films, consumables etc.; carrying out repairs of weld joints as required, carrying out re- radiography and other non-destructive tests on repaired joints, etc.; Installation of carrier pipe including concrete coated pipes (wherever required).				
5	(Concrete Coating on pipes, covered separately) at all crossings including roads/ canals/ nala/ water crossings etc. (supply and installation of casing pipe by open cut or by Jacking/ boaring method covered separately) including pre-testing as required; Carrying out installation of carrier pipe in the casing pipe at cased crossings; Coating of all field weld joints, long radius bends (fabrication of Cold field bends covered here and fabrication of 6D bends by induction heating covered separately), buried fittings etc.; Supply & Installation of warning tape along the entire length of Pipeline including Crossing. Lowering the pipelines in trench, providing required padding over and around the pipeline with sand/graded material (in rocky areas), backfilling with available approved excavated material and/or other suitable soil (supply and providing of soft soil for pre & post padding in Rocky area); Supply and installation of slope breaker as per specifications and drawings in steep slope areas, wherever required; Carrying out hydrostatic testing including air cleaning, flushing, filling, gauging, pressurization of complete pipeline in various test sections as approved by Engineer-In-Charge to the specified test pressure, providing all equipment, pumps, fittings, instruments, dead weight tester, all types of pigs etc., and services, supervision, labour, consumables, arranging water required for hydrostatic testing including supply of corrosion inhibitor, air, etc. as required, locating of leaks and rectification of defects attributable to Contractor, re-testing after rectification, successful completion of hydro-testing of pipeline (De-watering covered else where in the SOR); including all tie-in(s) with the pipeline/ piping installed by others including cutting of test header, re- beveling as required; Carrying out all temporary, ancillary, auxiliary works and all incidental works required to make the pipeline ready for pre- commissioning; Carrying out EGP for the entire stretch of completed pipeline, Repair of defects recorded during EGP/gauge plate run or otherwise including cutting, beveling, welding, NDT, field joint coating etc.; as applicable, Final clean-up and restoration of right of use including obtaining NOC from respective statutory authorities as required and disposal of debris and returning all surplus material to designated disposal areas/storage yard, as directed by Engineer-In-Charge; Restoration of land, facilities and boundary wall etc. at associated facilities dismantled/damaged by the Contractor during construction; Obtaining work permits/ NOC from various statutory authorities having jurisdiction and complying with all stipulation/conditions/recommendation of the said authorities; Preparation of as-built drawings, pipe-book and other records. SOR shall be read in conjunction with Project drawings, scope of work, specifications, standards and other provisions of contract document. The work includes the Survey data & site preparation, Stringing/Chainges in direction, Beveling of pipe element, Welding Procedure Qualification & Welders Qualification, Welding of pipe element, Inspection & testing of production welds, Field joint coating, controlled blasting, chiseling, etc., Material hand over & material handling, Lowering-in & ballasting, All crossings except HDD as mentioned in Crossing List (including installation of carrier pipe inside the Casing at cased crossing) Backfilling (for all depths in all types of soil, soft /hard rock) including trench padding with sand, graded earth in rocky areas & rock shield(if required as per specs) reinstatement				
6	All above works shall be executed in accordance with scope of work, GTS, PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. 1. Supply and Installation of OFC and HDPE Ducts along the entire pipeline route, adjacent to the new pipeline, along with all required accessories, fittings and associated items, is covered separately in the SOR. All above works for buried pipeline (including hook-up pipeline from Tap Off Point inside ONGC GCS, Jharia upto proposed plot for GAIL DT), as per following details :				
7	ND 8", API5L X60 - 6.4 mm	4250	M	2,500.00	1,06,25,000.00
8	ND 8", API5L X60 - 7.1 mm	1588	M	2,700.00	[illegible]500.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Potaliya Enterprises

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
9	Concrete slabs (Mechanical Protection) as per technical specifications Supply, fabrication and installation of reinforced concrete weights. Reinforced steel size should be 8 mm. top and bottom at a rate of 200 mm c/c of precasted RCC 1:2:4 on pipeline of wall thickness of 75 mm thick and size as per specifications & Standard drawings and instructions of Owner/ Owner's representative including supply of consumables, materials, equipment, labor, supervision, all associated civil works.	110	M	1,000.00	1,10,000.00
10	Continuous Concrete Coating Supply of all consumables and materials, equipments, manpower, submission of application procedure with calculations for anti-buoyancy, design mix procedure qualification and application of continuous concrete weight coating thickness mentioned below (higher also, in case design requirements) on pipeline of all thickness, concrete weight coating of the field joints thereof, and performing all works as per specifications and instructions of Owner/Owner's representative and other provisions of CONTRACT DOCUMENT.				
11	25 mm thick	12	M	2,200.00	26,400.00
12	30 mm thick	12	M	2,500.00	30,000.00
13	GEO TEXTILE BAGS FOR ANTI-BUOYANCY				
14	Additional works over and above item no. 4 to 8 for design, manufacture and supply of Non-biodegradable geo-textile bags and installation of geo-textile bags duly filled with gravel/ stone ballast on pipelines of all wall thicknesses for anti-buoyancy, drawings, scope of work and instructions of Engineer-in-Charge and other provisions of the Contract document.				
15	ND 8" (for all thicknesses)	12	M	2,000.00	24,000.00
16	Permanent Markers Supply, fabrication and installation of following types of permanent markers along the pipeline route including all associated civil works such as excavation in all types of soil, construction of pedestals and grouting with concrete, clearing, supply & application of approved color and quality of primer and paint, stencil letter cutting for numbers, direction, chainage, etc. restoration of area to original condition and performing all works as per drawings, specifications and instruction of Owner/Owner's Representative.				
17	Pipeline Warning Signs	14	Nos	8,000.00	1,12,000.00
18	Right-of-way boundary markers	22	Nos	1,500.00	33,000.00
19	Kilometer Markers	4	Nos	8,000.00	32,000.00
20	Aerial Markers	1	Nos	8,000.00	8,000.00
21	Directional Markers	69	Nos	8,000.00	5,52,000.00
22	Repair of Defects in Pipe Coating (Attributable to OWNER)				
23	Repair of Line Pipe Coating: Supply of all coating repair materials as per the requirements of the relevant specifications, supply of all consumables, utilities, equipment, and all manpower required, pipe cleaning and surface preparation, repairing of coating defects (resulting in holiday in coating) and testing including all handling, transportation, etc. for line pipes, performing all works necessary for the completion of the works strictly in accordance with the relevant specifications and instructions of OWNER.				
24	Repair of Holidays in Coating	20	Nos	5,000.00	1,00,000.00
25	Repair of Cosmetic Defects in Coating: Description of same as in item no 23 above, but for repair of cosmetic defects in coating.	30	m3	30,000.00	9,00,000.00
26	**Repair of Defects in Line Pipes**				
27	Repair of OWNER supplied pipes of all wall thicknesses, recorded at the time of taking-over by CONTRACTOR at all places of work.				
28	Cutting and rebevelling	15	Nos	500.00	7,500.00
29	Jack out method	15	Nos	500.00	7,500.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Potaliya Enterprises

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
30	All works for locating burst (occurred during hydrostatic testing and tightness test attributable to Owner issued materials) including detecting burst, necessary repairing/replacing defective pipe lengths, including cutting out and removing the defective pipe, pretesting the replacement pipe, welding of replacement pipe into mainline and NDT of welding, repair and re-testing of defective welds, coating of welded joints, cleanup, retesting including providing all labor, materials, consumables and inputs other than OWNER supplied materials and performing all works as per drawings, specifications and directions of Owner/ Owner's representative. In case of pinhole leaks not easily detectable all works for locating leak (occurred during mechanical resistance test and tightness test attributable to Owner issued materials) including detecting leak, The Payment will be made as per actual efforts and based on Equipment and manpower Rate provided in SCC . Further replacement & retesting will be paid as above.	2	Per burst	25,000.00	50,000.00
31	LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER) (FOR TERMINAL PIPING) LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER DUE TO FIM) All works for leak/burst (occurring during hydrostatic testing) by necessary repair/replacement of defective pipe length, including cutting and removing out defective pipes, welding, NDT of welds, repair and re-testing of defective welds, painting of welded joints, clean-up, re hydro testing of the pipe segment including providing all necessary equipment, labour, materials, consumables and inputs other than Owner supplied materials and performing all works as per drawings, scope of work, specifications, standards enclosed with the Contract and directions of Engineer-in-Charge. Note: 1. This rate shall be applicable for manufacturing defects in Company supplied materials only.	6	Inch-meter	30,000.00	1,80,000.00
32	IDLE TIME PRESERVATION OF PIPELINE Preservation of complete pipeline and associated facilities and its maintenance including supply of all consumables, all equipment, man- power, etc., complete as per the requirements of specifications, scope of work, standards, other provisions of Contract document and instructions of Engineer-in- Charge. By filling and pressurizing with nitrogen including supply and maintenance of nitrogen as per following details:				
33	Pipe OD - 8 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - 3 MONTH	6030	M	22.00	1,32,660.00
34	Pipe OD - 8 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - FOR EVERY ADDITIONAL MONTH BEYOND INITIAL 3 MONTHS	6030	M	10.00	60,300.00
35	**PRE-COMMISSIONING FOR NATURAL GAS PIPELINES SYSTEM, Carrying out pre-commissioning activities and pre-commissioning checks to the specified acceptance criteria, making the entire pipeline system ready for commissioning (It includes cleaning including magnetic cleaning, Electrical Geometrical Pigging survey, dewatering, swabbing,, pre-drying activity, Golden-tie ins connecting the stations),, supply of all equipment, man-power, consumables, including all type of pigs and required quantity of nitrogen, materials for all temporary works and performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.**				
36	Pipe OD - 8 INCH	6030	M	70.00	4,22,100.00
37	**Commissioning Assistance**				
38	OVERALL COMMISSIONING OF ENTIRE PIPELINE SYSTEM Overall commissioning including system checks, inertisation (as required) and charging of entire pipeline system, including all stations and all associated facilities including notifying the Company that the pipeline system is ready for commissioning; Review of status jointly with the Company and obtaining final clearance for start of commissioning; Development and submission of commissioning procedures, obtaining Company approval thereupon, carrying out overall commissioning of the total pipeline system including all facilities and all necessary coordination/ liaison with other Contractor(s) operations; Carrying out commissioning; Supply of all equipment like Nitrogen vapourisers (as required), along with all piping and instruments, temporary venting/ flaring/draining facilities as applicable, man-power, consumables including pigs and required quantity of Nitrogen (as required); Performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.				
39	Pipe OD - 8 INCH	6030	M	30.00	1,80,900.00
40	PIPELINE INFORMATION MANAGEMENT SYSTEM Providing pipeline information management system using web based software for monitoring pipeline construction progress and providing all "As Built" data & drawings for entire length of pipeline as per specifications enclosed with the tender document.	1	LS	5,00,000.00	5,00,000.00
41	VIDEO FILM & PHOTOGRAPHY OF CONSTRUCTION ACTIVITIES Preparation of high resolution video films with audio commentary and Industrial photography covering all aspects/activities of pipeline construction annotated as required, conversion of same to video DVD/Blue Ray format, submitting three (3) sets of the same as per details in scope of work document	1	LS	50,000.00	50,000.00
	FABRICATION OF LR BENDS :				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Potaliya Enterprises

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43	Fabrication of 6D bend / LR (Induction) bends as per the relevant standard & Specification attached with the tender document from free issue linepipes (mother pipe) including but not limited to the following: "Receiving and taking over of free issue linepipes" from GAIL Dump Yard location as mentioned in Scope of Work, carrying out inspection of line pipe at the time of receive taking over in the presence of Company representative, carrying out repair of pipe defects attributable to Contractor after taking over, including supply of consumables & equipments; handling, hauling, transportation and loading/unloading required to transport the mother pipes between place of issue, LR bend fabricator/ manufacturer, intermediate storage as required, and final delivery of fabricated LR Bends to the worksite(s), as per requirement, Manufacturing/ fabricating of LR Bends, as per project requirements and Specifications. LR bends exact angle(s) shall be as per pipeline alignment. Note:- 1. Rate for repairing of defects in linepipes identified and recorded at the time of receiving & taking over i.e. defects attributable to Company shall be quoted separately in the applicable items of the SOR. 2.Loading of Pipe into installation contractor trailer shall be carried out by the GAIL Dumpyard maintenance agency already engaged by the Company.				
44	Bare Pipe ND 8", API5L X60 - 6.4mm	8	Nos	30,000.00	2,40,000.00
45	Bare Pipe ND 8", API5L X60 -7.1 mm	15	Nos	35,000.00	5,25,000.00
46	**SUPPLY AND INSTALLATION OF CASING PIPE & 6 INCH CS CONDUIT:** Supply and installation of casing pipe and 6 inch CS conduit for OFC by jacking / boring or open cut for rail, road or canal crossings wherever required in all types of soils and terrain separately for carrier pipes and fibre optic cable inside HDPE duct, supply of casing pipes and all other Contractor supplied materials viz. casing insulators and casing end seals as per enclosed drawing, materials for casing vents and drains, etc. including transportation, supply of all other materials, equipments, consumables, man-power, welding including visual inspection of all weld joints, installation of casing insulators, end seals, vents and drain-off pipes, backfilling and restoration as original of the facility crossed and performing all works as per drawings, specifications including PTS and GTS and instructions of Engineer-in Charge and provisions of Contract document.				
47	Supply and installation of Casing pipe by Boring / Jacking as per item no. 46 (Railway crossing) Casing Pipe Details: (Pipe 14" , 8.7 mm Thick, API 5L GR.B)	200	M	46,000.00	92,00,000.00
48	Supply and installation of Casing pipe by Boring / Jacking as per item no. 46 (Other than Railway Crossings) Casing Pipe Details: (Pipe 14" , 6.4 mm Thick, API 5L GR.B)	12	M	42,000.00	5,04,000.00
49	Supply and installation of 6 inch CS Conduit by Boring/Jacking as per item no. 46 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	200	M	10,000.00	20,00,000.00
50	Supply and installation of Casing pipe by open cut as per item no. 46 Casing Pipe Details: (Pipe 14" , 6.4 mm Thick, API 5L GR.B)	12	M	12,000.00	1,44,000.00
51	Supply and installation of 6 inch CS Conduit by open cut as per item no. 46 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	12	M	6,000.00	72,000.00
52	**HDD CROSSING**				

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53	**Generalities**				
54	Topographic / Bathymetry, Geotech Investigation and Hydrological data collection				
55	Site preparation				
56	Design & stress calculations as per requirement				
57	Material hand-over and material handling				
58	Site reinstatement				
59	Final dossier including all notes & calculations as required in the specification				
60	***Installation of 6 inch CS Conduit***				
61	Teletransmission--Separate Drilling for 6 inch CS Conduit for OFC installation				
62	Installation of HDPE duct & OFC cable inside 6 inch CS conduit				
63	Drilling & Pulling of 6 inch CS Conduit shall be done before mainline HDD.				
64	***Pipeline string***				
65	Beveling & welding				
66	Inspection & testing of welds				
67	Field joint coating				
68	Temporary support (roller)				
69	Control of pipeline string				
70	Hydrotesting & leak test				
71	***Drilling operation***				
72	Earthwork entry / exit points including grading erection of embankment etc..				
73	Supply & clearing out of all material needed for drilling				

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74	Drilling of washer pipe, reaming & cleaning of drill opening, supply and preparation of bentonite				
75	Pull back of the pipe string				
76	Disposal of surplus of soil & bentonite				
77	Control of the integrity of the coating				
78	***Work at entry point***				
79	Changes in direction				
80	Beveling & welding				
81	Inspection & testing of welds				
82	Field joint coating & coating of all bare section of pipe				
83	Earthwork				
84	Lowering-in				
85	backfilling as required				
86	***Work at exit point***				
87	Changes in direction				
88	Beveling & welding				
89	Inspection & testing of welds				
90	Field joint coating & coating of all bare section of pipe				
91	Earthwork				
92	Lowering-in				
93	backfilling as required				

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M/s. Potaliya Enterprises

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
94	Complete work for the water/ Road/ Rail crossings, including taking over and handling of linepipes from Contractor Storage Yard to worksite, Arrangement of all additional land required for Contractor's storage, fabrication, access for construction; construction design calculation and engineering of the crossing, mobilization and demobilization at site(s), supply of all materials as per "Scope of Supply" and all consumables, equipment, manpower and other resources, and acquiring the required land for site preparations, and execution of, but not limited to, the following works in accordance with specifications, drawings, and as per provisions of the Contract document and instructions of the Company/ Engineer-in- Charge: Carry out all surveys required for collecting data relevant to design and construction of the crossing, preparation of all necessary construction drawings for Company's approval as per the provisions of the Contractor document, Preparation of detailed construction method statement and calculations including Scour Depth calculations for river/ canal crossings, Strings preparation including welding, 100% Radiography of welds, NDT of welds and re-beveled areas, radiography, weld repair and re-test, pre-testing of completed string, corrosion coating of field joints with Dirax or equivalent, inspection of corrosion coating and repair of defects, Preconstruction surveys and collection of all necessary data, Installation of pipeline and CS conduit (6 Inch CS Conduit shall be installed through Seperate Drilling) , horizontal directional drilling to the correct profile as per approved drawings and specification, Post-installation hydrotest including leaks and repair of defects and retesting, etc. for defects attributed to Contractor's faulty work, Supply, fabrication and construction of protective fencing as required, Hydrotesting, Supply, fabrication and erection of pipeline markers, Restoration and clean-up etc., Preparation of as-built drawings and other records etc., All other works not specifically listed herein, but required as per specifications, drawings, provision of contract document, calculations, and construction method statements, leading to successful completion of works.				
95	Linepipe details:- (Pipe 8" dia, Wall Thickness: 7.1 mm, Pipe Grade: API 5L GR.X-60 PSL 2, External Coating: 3LPE) CS Conduit details: (Pipe 6" dia, 6.4mm Thick, API 5L GR.B) Note: 1. CS Conduit shall be supplied by the Contractor. Radiography & Hydrostatic testing is not required to be done for CS Conduit. (6 Inch CS Conduit shall be installed through Seperate Drilling) Contractor shall quote accordingly. 2. The rate shall be applicable for the drilled length of the HDDs. All above works shall be executed in accordance with scope of work, GTS,PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. This line item is applicable for HDD crossing mentioned in the Crossing List with prior approval of Engineer - In-Charge during Construction.	192	M	30,000	57,60,000.00
96	**SUPPLY & INSTALLATION OF OPTICAL FIBBE CABLE AND HDPE DUCT**				
97	Suppy of 24 Fibre Composite armoured Optical Fibre Cable drum (6 fibre G-655 & 18 fibre G-652) of 4 km +/-5% Cable drum length with fiber terminal closure, inspection chamber, electronic route marker all along pipeline route, Two number electronic locater as per PTS-Optical Fibre cable and Scope of Work C&I along with all required accessories and fitments not mentioned seperately.	7000	M	100	7,00,000.00
98	Inspection/Jointing Chamber (fabricated or readymade)	3	Nos	16,000	48,000.00
99	Blowing Pit (fabricated or readymade)	7	Nos	14,000	98,000.00
100	Supply of jointing closure 24 Fiber, 2 way including all accessories (3M, Siemens, Reychem make only)	3	Nos	16,000	48,000.00
101	Supply of End to End OFC termination of wall mounted FTC with pig tails other accessories for termination of OFC - 24 Fibre in the Telecom Room at Jharia & SV28	2	Nos	1,50,000	3,00,000.00
102	Electronic marker	3	Nos	6,000	18,000.00
103	Electronic Locator	1	Nos	4,50,000	4,50,000.00
104	Supply of 50mm OD permanently lubricated HDPE telecom duct along with all the required accessories as per PTS-Optical Fibre cable and Scope of Work C&I	7000	M	100.00	)00.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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105	Laying of HDPE Duct : Laying of 50mm HDPE Ducts in same pipeline trench direct buried, or inside 6 inch CS conduit at various crossings as per Specification in all type of soil & terrain, excavated as required, padding, backfilling, etc. including supply of accessories required for HDPE Duct installation, including plastic couplers, end plugs, cable sealing plugs, end caps, etc. suitable & sufficient for above supplied ducts, cleaning and sealing of ducts at the end laid drum lengths, preparation and supply of cable blowing pit at each Km jointing of HDPE duct, testing of HDPE Duct and accessories after laying preparation of report and final drawing and documents as per specification, joint location marking, erection accessories, as-built, etc.	7000	M	300.00	21,00,000.00
106	Blowing of Optical Fibre Cable inside HDPE Duct : All activities pertaining to Blowing of Optical Fibre Cable in same pipeline trench directly (after testing drum at site), inside HDPE duct along the pipeline and at crossing, sealing using all materials required as per specification	7000	Nos	50.00	3,50,000.00
107	Installation of FTC & Wire mesh, termination of OFC on FTC / DDF inside telecom room, splicing with steet fibre, fibre test, OTDR test, power testing of laid OFC, identification of fault, rectification, earthing, final testing and commissioning, preparation of reports, etc. work complete in all respect with all necessary accessories for all location till final Handing Over and Taking Over by Owner of laid OFC.	1	LS	1,00,000.00	1,00,000.00
108	**TRANSPORTATION OF COATED AND BARE LINEPIPES FROM GAIL DUMPYARDS (ANY LOCATIONIN INDIA) TO CONTRACTOR STORAGE YARD:**				
109	"Receiving and taking over" of "free issue" Linepipes from GAIL Dump Yard location (any location in India); Carrying out inspection of Linepipes at the time of receiving and taking-over, recording of pipe & coating defects at the time of taking over in the presence of Company's representative, carrying out repair of coating defects & pipe defects attributable to Company; including supply of materials, consumables & equipments; handling, hauling and transportation from designated place of issue to Contractor Storage Yard; unloading and stacking of the linepipes at Contractor Storage Yard; including arranging all equipments, trailers, trucks & manpower; all works as per Scope of Work, drawings, PTS, GTS and other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, Provision of Contract & instructions of Engineer InCharge.				
110	Linepipe Details:- Coated and Bare Line Pipe 8" diameter API 5L Gr. X-60 PSL-2 Wall Thickness - 6,4mm / 7.1mm External Coating - 3LPE, Internal Coating - Liquid Epoxy 1) Loading of Pipes into Installation contractor's trailer shall be carried out by the contractor. 2) Development & Maintenance of Contractor Storage Yard adequate to store the linepipes including arrangement of all Lifting & Handling equipment at Contractor's Storage Yard shall be done by the Contractor. Rate for the same shall be quoted in applicable items. 3) Rate for repairing of coating defects in linepipes identified and recorded at the time of receiving & taking over i.e. coating-defects attributable to Company shall be included in this item. 4) Rate for repairing of pipe-defects identified and recorded at the time of receiving & taking over i.e. pipe-defects attributable to Company shall be quoted separately in the applicable items of the SOR. 5) Transportation of line pipe from Contractor's Storage Yard to work site is included in SOR item 1 above, No separate payment will be applicable for the same.	350000	Ton-Km	30.00	1,05,00,000.00
111	TRANSPORTATION OF FREE ISSUE PIPING ITEMS (OTHER THAN LINE PIPE) FROM GAIL STORAGE YARDS (ANY LOCATION IN INDIA) TO CONTRACTORS YARD / WORKSITE(S) : "Receiving and taking-over", handling, lifting, loading, transportation and unloading of Company supplied "free-issue materials" (Other than line pipe) viz. Metering Filtering and PRS Skid, Scrapper Launcher/ Receiver & accessories, Valves with or without Actuators, Insulation Joints, Flow Tee, Pig Signallers, fittings, flanges etc. from GAIL Storage yards location (any location in India) to Contractor's Storage Yard / work-site(s). Note:- 1) Location of GAIL Storage Yard shall be anywhere in India. Contractor shall quote accordingly. 2) Transportation of FIM from Contractor's Storage Yard to work site, is included in SOR item 119 below, No separate payment will be applicable for the same.	24000	Ton-Km	30.00	7,20,000.00
112	**DEVELOPMENT OF CONTRACTOR STORAGE YARD:**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL**	**Rev.00** **Date-11.02.2022**
		Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**

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113	Development of the Contractor Storage Yard including fencing, illumination etc., including deployment of all lifting and handling equipments, manpower required to stack, unload and load all Free Issue Material (FIM) including Line Pipes and all bought out items, as required; storage of all Free Issue Material and bought out items for the required duration as per project requirement, all works as per Scope of Work, drawings, other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, PTS, GTS and Provision of Contract & instructions of Engineer In-Charge. The storage yard shall be used for storage of all Free Issue Line pipes, all other Free Issure Material (FIM) and all bought out items required for the project. Notes:- 1) Development of contractor storage yard adequate to store all the material required for Project, including all Free Issue Material (FIM) and bought out items. (Rate for the same shall be captured in this item) 2) Maintenance of contractor storage yard for the entire project period is included in the scope of contractor. No separate payment shall be applicable for the same.	1	LS	10,00,000.00	10,00,000.00
114	Hard Rock breaking by controlled blasting / chiseling method (rate will be applicable in case when prior approval for rock breaking is obtained by the contractor from GAIL / PMC)	50	M3	3,500.00	1,75,000.00
115	Clean Agent Fire Supression System as per Scope of Work	1	LS	50,000.00	50,000.00
116	Restoration of underground utilities (pipes & cables) during excavation at ONGC, GCS Jharia and Receiving Station (which is inside SV-28 Premises)	5	Nos	10,000.00	50,000.00
117	**Sub-Total Section A**				**5,42,82,960.00**
118	**SECTION-B [MECHANICAL (PIPING & TERMINAL WORKS)]**				
119	**PIPING WORKS AT DESPATCH AND RECEIVING STATIONS AND HOOK-UP WITH ONGC GCS, JHARIA** All works for installation of all piping at all elevations for Despatch and Receiving Stations as indicated in Drawings, Scope document, including supply of all consumables, Gaskets, nuts, bolts Studs, manpower, materials and equipment (except Company supplied free-issue materials), aligning, grouting, tie-in with pipeline and carrying out all mechanical works of underground and above ground piping including fabrication, welding, installation of all pipes, valves (manual & actuated), flanges, fittings, flow tees, pig signalers, insulating joints, corrosion monitoring probes /corrosion coupons, installation of instruments (pressure/temperature gauges, vents, drains-off, safety relief valves, electro hydraulic valves etc.) as indicated in P& IDs and GADs. 100% Radiography of weld joints of piping above 1.5 inch, Magnetic particle & Die penetration test for piping 1.5 inch & below, all NDT of welds, weld repairs/retesting, hydrostatic testing, cleaning/flushing, functional testing, de-pressurizing , Drying and dewatering, cutting and re-beveling (as required), hookup of all pipeline/utilities at the battery limit with the pipeline/utilities installed by others, obtaining all statutory clearances, approvals and permissions for the work (wherever required), excavation and filling in all types of soils including soft/hard rock for installation of piping/ pipe supports; corrosion coating and external painting (as required), finishing, clean-up and restoration of site, preparation of as- built drawings, documents and project records and performing all works as per drawings, specifications, other provisions of Contract document and instructions of Engineer-in-Charge. Civil/ structural works for piping supports will be paid separately as per unit rate provided elsewhere in the contract. Cost of Transportation of all materials (Including FIM mentioned above) for station works, from Contractor's own stock-yard to Work site, to be included in this SOR item. No separate payment will				
120	Fabrication and Erection of piping as per item no.110, (For Pipe Size 2 Inch and above, 100% Radiography) Note: 1. Rate for Handling, Fabrication and erection of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item. Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor.Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes 2" & above, shall also be part of this item. Contractor shall quote accordingly.	1500	INCH DIA METER	1,000.00	15,00,000.00
121	Fabrication & Erection of Piping as per item no. 110 (For Pipe Size Below 2 inch, Magnetic particle & Dye Penetration Test as per the requirement of specification) Note: 1. Rate for Handling and installation of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item.Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor. Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes below 2", shall also be part of this item. Contractor shall quote accordingly.	50	INCH DIA METER	1,100.00	55,000.00
122	Painting of Piping (Pipe, Fittings, Flanges, Valves, Equipments, etc.) as per item no. 110	1550	ICH METER	190.00	2,94,500.00

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123	Hydrostatic testing, cleaning / flushing, functional testing, de-pressurizing, dewatering & drying of Piping as per item no. 110 (for all size upto 10").	1550	ICH METER	22.00	34,100.00
124	**INSTALLATION OF COMPANY SUPPLIED FIM (FML SKID AND PIG LAUNCHER/RECEIVER SYSTEM) AT DESPATCH TERMINAL AND RECEIVING TERMINAL**				
125	Installation of Company supplied Filtering, Metering and PRS Skid and Scrapper Launcher/ Receiver with accessories, at stations including all handling and installation works; as per drawings, specifications enclosed with the Contract and directions of Engineer-in-Charge. Cost of Transportation of above Free issue items, from Contractor's own stock-yard to Work site for station works, to be included in this SOR item. No separate payment will be applicable for the same.	1	LS	80,000.00	80,000.00
126	**CONTRACTOR SUPPLIED ITEMS:(Supply of Items as per attached PTS,GTS,Data Sheet,QAP and PMS)**				
127	**Station pipe -Seamless**				
128	1" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, PE, SEAMLESS	6	METER	1,000.00	6,000.00
129	2" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	90	METER	1,600.00	1,44,000.00
130	4" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	135	METER	3,200.00	4,32,000.00
131	8" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	50	METER	9,500.00	4,75,000.00
132	8" pipe, 6.4mm thk, ANSI B 36.10, API5L X 60, BE, HFERW/SEAMLESS	29	METER	10,000.00	2,90,000.00
133	10" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	12	METER	12,000.00	1,44,000.00
134	**Supply of Fitting & Flanges**				
135	1 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 350 LF2,CL1, BW, ANSI B16.25	4	Nos	600.00	2,400.00
136	2 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25.	3	Nos	1,500.00	4,500.00
137	1" WNRF FLANGES, 6C1, SCH. 160 / 600#, WNRF, B-16.5, ASTM A350 LF2, CL1, BW-ANSI B16.25 RF	4	Nos	700.00	2,800.00
138	8", WNRF FLANGES, 6C2, 6.4 thk/ 600#, WNRF, B-16.5, ASTM A694 F60 OR EQUIVALENT, CL1, BW-ANSI B16.25 RF.	5	Nos	10,000.00	50,000.00
139	1", BLIND FLANGES, 6C1, 600#, RF, B-16.5, ASTM A350 LF2, CL1, RF	4	Nos	700.00	2,800.00
140	3/4" EQUAL TEES, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25,	1	Nos	700.00	700.00
141	3/4", CUP THREADED 6C1, 6000#, ANSI B16-11, ASTM A 350 LF2, CL1 , BW - ANSI B16.25, ANSI B1.20.1,	3	Nos	700.00	2,100.00
142	**WELDOLETS (MAINLINE x BRANCH SIZE)**				
143	4" x 1", WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1 ,	2	Nos	1,000.00	2,000.00
144	8" x 2" WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 6.4 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 694 F60	13	Nos	1,000.00	13,000.00

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145	8" x 2", WELDOLETS (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	26	Nos	1,000.00	26,000.00
146	**GASKETS**				
147	GASKETS, 6C1, 600#, RF, ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 1"	12	Nos	200.00	2,400.00
148	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 2"	210	Nos	300.00	63,000.00
149	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 4"	30	Nos	500.00	15,000.00
150	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 8"	47	Nos	800.00	37,600.00
151	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 10"	2	Nos	1,100.00	2,200.00
152	**NIPPLES**				
153	NIPPLES, 6C1, Sch 160 /600#, ANSI B 36.10, ASTM A333 GR.6, BOTH ENDS PLAIN, SEAMLESS-LG=100mm, 3/4"	12	Nos	200.00	2,400.00
154	NIPPLES, 6C1, Sch 160 / 600#, ANSI B 36.11, ASTM A333 GR.7, ONE END THRD -MNPT SEAMLESS- LG=100mm, 3/4"	8	Nos	200.00	1,600.00
155	**INSULATING JOINT**				
156	INSULATING JOINT 6C,16.4 mm (X60) x 600# ,MANUFACTURER STANDARDS ,ASTM A694 F60 ,BW - ANSI B16-25, 8"	2	Nos	1,40,000.00	2,80,000.00
157	**Supply of following Valves as Per attached PTS,GTS,Data Sheet,QAP,PMS & MTO**				
158	1",BALL VALVE - FULL BORE (RF) (ABOVE GROUND),6C1	6	Nos	15,000.00	90,000.00
159	3/4", CHECK VALVE (RF) (AG), 6C1	2	Nos	13,000.00	26,000.00
160	3/4",NEEDLE VALVE, 6C1	5	Nos	14,000.00	70,000.00
161	**Note (Applicable for all items of SOR Item No 126 to 160):** **1. Before procurement of any of the above materials Contractor will take prior approval from GAIL / PMC.** **2. Payment will be made for actual quantity used.**				
162	**Sub-Total Section B**				**41,51,100.00**
163	**SECTION-C [CIVIL / STRUCTURAL & ARCHITECTURAL]**				
164	**CIVIL , STRUCTURAL & ARCHITECTURAL**				
165	**Earthwork excavation in soil**				
166	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	1770	cum	400.00	7,08,000.00

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167	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth beyond 1.5m and upto and inclusive of 3.0m including Removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	50	cum	500.00	25,000.00
168	**Earthwork excavation in soft rock**				
169	Earth work in EXCAVATION below ground level for all kinds of works in SOFT ROCK and HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as irected including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	130	cum	2,000.00	2,60,000.00
170	**Backfilling after execution of work**				
171	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps within a LEAD OF 100M,including re-excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/ mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	580	cum	200.00	1,16,000.00
172	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps beyond a LEAD OF 100M AND UPTO & INCLUSIVE OF 500M including re- excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	250	cum	250.00	62,500.00
173	**Transporting & Disposing the SURPLUS EARTH AND DEBRIS**				
174	Transporting and disposing the SURPLUS EARTH AND DEBRIS including shrubs and vegetations from construction areas to areas ANYWHERE OUTSIDE THE PLANT BOUNDARY, including re-excavating the deposited soil excavated earlier, loading, transportation, unloading, laying at all depths and heights, stacking,levelling and dressing both the area (viz. from where the earth is transported and where it is deposited) to required levels and slopes complete with all lifts as directed. For carting on the basis of truck measurements (volume of truck reduced by 30% for voids). DISPOSAL AREAS OUTSIDE PLANT BOUNDARY TO BE ARRANGED BY THE CONTRACTOR. Royalty as applicable for disposal outside plant limits to be borne by the Contractor	760	cum	200.00	1,52,000.00
175	**EARTH WORK FILLING BY EXCAVATION**				
176	EARTHWORK IN FILLING by excavating the earth from BORROW AREAS arranged by CONTRACTOR for all leads, transporting the earth from borrow area including cleaning & stripping the earth at borrow areas, breaking clods, loading, unloading and laying at all depths and heights in layers of thickness not exceeding 15 cms., watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% of the maximum laboratory dry density, ressing, trimming, levelling the top surface etc. in foundations, plinths, trenches etc. all complete.	4725	cum	600.00	28,35,000.00
177	**PLAIN & REINFORCED CEMENT CONCRETE: (REFER SPECIFICATION NO. (Z/02/0004)**				
178	**PLAIN CEMENT CONCRETE - PCC**				
179	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:4:8 (1 cement : 4 coarse sand (Zone-III) : 8 graded stone aggregate 40 mm nominal size)	105	cum	7,000.00	7,35,000.00
180	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:3:6 (1 cement : 3 coarse sand (Zone-III) : 6 graded stone aggregate 40 mm nominal size)	20	cum	8,000.00	1,60,000.00
181	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:2:4 (1 cement : 2 coarse sand (Zone-III) : 4 graded stone aggregate 20 mm nominal size)	120	cum	9,500.00	)00.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00
			Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Potaliya Enterprises

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
182	Providing and laying PLAIN CEMENT CONCRETE for all depths below and upto plinth level in foundations, drains, fillings, non-suspended floors, pavements & ramps or any other works etc. including shuttering, tamping, ramming, vibrating, curing, etc. all as specified in any shape, position, thickness and finishing the top surface rough or smooth as specified and directed all complete for concrete grade M20 with 20mm and down size graded crushed stone aggregates/Gravels. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR	110	cum	9,500.00	10,45,000.00
183	**RCC WORKS**				
184	**SUBSTRUCTURE**				
185	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUBSTRUCTURE INCLUDING CENTERING & SHUTTERING) e.g. foundations, raft, beams, pile caps, Retaining walls, counterforts, buttresses, pedestals, pipe sleepers, columns, suspended floors, staircases, landings, steps, brackets etc., including equipment/ machine foundations & pedestals viz. compressors, generators, etc. (including single pour concreting as specified on the drawing), applying cement wash on concrete surface (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering, etc., wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT)for all depths below and upto plinth level in any shape, position and thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	615	cum	11,000.00	67,65,000.00
186	**SUPER STRUCTURE - EXCLUDING CONTROL ROOM BUILDING, GUARD ROOM & BOUNDARY WALL**				
187	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUPER STRUCTURE INCLUDING CENTERING & SHUTTERING in suspended floors, slabs, beams, columns, walls including counterforts, staircases, landings, steps, facias, fins, mouldings, gutters, shelves, window sills, canopies, lintels, girders, ducts, brackets, chajjas with drip moulds, pedestals, posts, struts, equipment/ machine foundations, ramps etc. (including single pour concreting as specified on the drawing), providing cement wash (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT) FOR ALL HEIGHTS UPTO & INCLUSIVE OF 20 m ABOVE PLINTH LEVEL in any shape, position, thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	70	cum	11,000.00	7,70,000.00
188	**CONTROL ROOM BUILDING (SUPERSTRUCTURE)**				
189	Construction of Control Room Building as per drawings and specification. Building work for all Superstructure works INCLUDING CENTERING & SHUTTERING , Reinforcement , masonry work, partition wall, Plastering & pointing, flooring, Floor finishes, Door & windows, rolling shutter, false ceiling, all finishes, painting, roof treatment complete in all respect etc.)	215	m2	40,000.00	86,00,000.00
190	**GUARD ROOM (SUPERSTRUCTURE)**				
191	Guard Room as per drawings and specification. Building work for all superstructure works including (Reinforcement, masonry work Plastering & pointing, flooring, Floor finishes, Door & windows, painting, roof treatment, all finishes, water supply and sanitary work complete in all respect etc.)	17	m2	25,000.00	4,25,000.00
192	**HYD Bars / MS Bars**				
193	Supplying and placing in position HIGH YIELD STRENGTH DEFORMED STEEL BARS REINFORCEMENT of Grade Fe500D TMT conforming to IS:1786, for RCC work (excluding control room building & Guard room & boundary wall superstructure) including transporting the Steel, straightening, cleaning, decoiling, cutting, bending to required shapes and lengths as per details, binding with 18 SWG black soft annealed binding wire at every intersection, supplying and placing with proper cover blocks, supports, chairs, overlaps, welding, spacers, fanhooks etc. for all heights and depths etc. all complete as directed. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE	70	MT	1,50,000.00	1,05,00,000.00
194	**STRUCTURAL STEEL WORKS (REFER TE SPECIFICATION)**				

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Potaliya Enterprises

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
195	Supplying, fabricating and erecting of structural steel and applying COATING (Post-erection/ Field) of approved quality and shade as per TE Specification or Job Specifications, wherever applicable) over the coat of shop primer already applied, including storage, surface preparation, degreasing, cleaning, drying, providing necessary arrangement for access, testing etc. including touching up of shop for steel structures (Including Wicket Gate, Main Gate and emergency gate, excluding ladders, spiral stairways & hand rails) at all location & levels, all complete as specified, for UNIT (INLAND) areas considering environment classification as INDUSTRIAL. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE. (Unit rate based on Structural steel weight)	25.5	MT	1,50,000.00	38,25,000.00
196	**MISCELLANEOUS STEEL WORKS (REFER TE - SPECIFICATIONS)**				
197	MS Chequered Plates				
198	Supplying, fabricating and erecting in position at all levels and locations bolted, screwed and/or welded M.S. CHEQUERED PLATES of any thickness in walkways, platforms, stairtreads or any other place as directed, etc. cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing, welding, preparation and submission of fabrication drawings and preparing the surfaces for painting and applying shop primer as per TE Specification after fabrication and return of unused/ scrap/ unserviceable chequered plates to Owner's store and material reconciliation etc. all complete as specified and directed	1.5	MT	1,50,000.00	2,25,000.00
199	Anchor Bolts				
200	Supplying, fabricating, fixing and keeping in position at all levels and locations THREADED ANCHOR BOLTS of all diameters and nomenclature including nuts, washers, anchor plates, pipe sleeves etc. in foundations, columns, pedestals, slabs, beams, walls etc. or any other place as directed including handling & transporting, straightening if required, turning from relevant size M.S. rounds to required diameter, threading, welding, providing necessary templates and auxiliary dummy structures, if any, necessary tying and welding with reinforcement, adjustment of shuttering & reinforcement/any other fixture, greasing exposed metal surfaces, covering bolts and packing the sleeves with jute cloth etc. all complete as specified and directed.(SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.6	MT	2,00,000.00	3,20,000.00
201	MS Metal Inserts				
202	Supplying, transporting, storing, fabricating and fixing in position M.S. METAL INSERT (with lugs) of any shape made out of flats, plates, rolled sections, pipes etc. providing necessary templates, staging, cutting,straightening, if required, bolting, welding as required and embedding in position on both Plain and Reinforced Cement concrete members inclusive of adjusting shuttering & reinforcement/ any other fixture, welding where necessary, tying and holding to correct level, line and position, any auxiliary dummy structures to support the heavy inserts, painting exposed surfaces with a coat of primer as per TE Specification all complete for all depths and heights as specified and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	0.55	MT	2,00,000.00	1,10,000.00
203	MS Grating				
204	Supplying, fabricating and erecting in position at all levels and locations ELECTROFORGED GALVANISED GRATING (purchased from approved manufacturer by the Contractor) conforming to TE STANDARD (in walkways, platforms, stair treads etc.) including cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing with manufacturer's supplied galvanised clamps, preparation and submission of fabrication drawings, all complete as specified and directed (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.85	MT	2,50,000.00	4,62,500.00
205	Hand Railing 1000mm				
206	Supplying, fabricating and fixing in position at all locations 1000mm high INCLINED HAND RAILING (for staircases) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade M.S. Tubes conforming to IS:1239 including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE SPEC. preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	6,250.00	62,500.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Potaliya Enterprises

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
207	Supplying, fabricating and fixing in position at all locations 1000mm high HORIZONTAL HAND RAILING (for platforms, walkways, etc. or any other location as directed) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade MS Tubes conforming to IS:1239 and 100x5 MS Toe Plate confirming to IS:2062 (Grade A/B), including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE standard drawing & specification, preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	6,250.00	62,500.00
208	**CHAIN LINK FENCING**				
209	Supplying, fabricating and fixing G.I. chain link fencing with 3.5mm dia. wire, 50x50mm diamond mesh chain link fence fabric conforming to IS:2721 fixed to steel/RCC posts/struts above ground level, including supply of chain link fencing fabric in 1.9 metre wide rolls, stretcher bars, staples, etc. required for fixing the fencing, fixing of chain link fencing between straining posts, fixing of bottom of fencing in cement concrete 1:2:4 blocks and painting with synthetic enamel etc. , including supply and fixing line wires, complete as per drawings, specifications and directions of Engineer -in-Charge (All materials shall be supplied by Contractor). (The measurement of chain link fencing shall be on linear basis for 1.9 m wide fencing fabric)	10	M	5,100.00	51,000.00
210	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of the Engineer-in-Charge. Made of G.I. wire of dia. 4 mm, PVC coated to achieve outer dia not less than 5 mm in required colour and shade.	600	M2	1,000.00	6,00,000.00
211	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Star' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	200	M	3,000.00	6,00,000.00
212	**ROADS & FLEXIBLE PAVEMENT (UPTO WBM LAYER)**				
213	Preparation and consolidation of sub-grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth outside the property boundary in the un-disputed areas as directed by Engineer-In-Charge.	1500	M2	500.00	7,50,000.00
214	Supplying and laying of stone aggregate of 63mm down to 45mm size for WBM layer Base Course, tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 75mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding material of plasticity index upto 6%, including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts etc. complete as per drawings, specifications and directions of Engineer-in-Charge	4500	M2	2,000.00	90,00,000.00
215	**CONCRETE PAVEMENTS**				
216	Construction of dry lean cement concrete **(DLC) sub base** over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in- charge.	150	cum	10,000.00	15,00,000.00
217	Providing and laying Reinforced Cement Concrete with 20mm and down size graded crushed stone aggregates in flooring, pavements etc. including leaving pockets, if necessary, making recess/drains, laying in alternate panels, etc. for all depths including shuttering, tamping, curing, providing dowel bars with sleeves/tie bars etc where ever required at site. as specified in any shape, thickness, position and finishing the top surface smooth etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For RCC of M-30 grade concrete (all materials including cement but excluding cost of providing & fixing reinforcement and joint sealing shall be supplied by the contractor).	375	cum	11,000.00	41,25,000.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

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218	Providing 20mm wide Expansion Joints in pavement slabs as per general technical specification including cleaning the joints of all loose material, filling with 20mm thick impregnated fibre boards for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved Joint Sealing Compound as per IS:1834 Type-B etc. all complete as per drawings, specifications and directions of Engineer-in-Charge	720	M	2,000.00	14,40,000.00
219	Sealing joint around pedestal and column etc. 20mm wide x 150 mm deep including filling with 20mm thick impregnated fire board for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved joint sealing compound as per IS:1834 Type-B.	300	M	2,200.00	6,60,000.00
220	**RCC PIPE CULVERTS & ELECTRICAL ROAD CROSSINGS ETC. (as per drawing & TE specification)**				
221	Supplying and laying in position RCC pipes with collars conforming to IS:458 for pipe culverts, cable crossings etc. including cutting the pipe if necessary, lowering, laying in position to proper levels, slopes etc. caulking the joints with spun yarn soaked in neat cement slurry and finishing with cement mortar 1:2 (1 cement : 2 sand) curing etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For following Class and Internal PIPE DIA (MM). (Dia (internal) - 500 mm, Pipe Class - NP3)	20	M	10,000.00	2,00,000.00
222	**U/G AND A/G G.I. PIPELINE SYSTEM - WATER SERVICES tender specification**				
223	Supplying and laying mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ ASTM A105 (Galvanized) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, earthwork in excavation for trenches, valve pits, etc. in all types of soil excluding soft and hard rock including laying of pipes in trenches, joining the pipes and fittings with threaded connections, hydrostatic testing of the piping, backfilling the trenches with selected/approved earth fill material, cutting of roads wherever required, making good the road surface after laying, disposal of surplus earth within a lead of 500 m, etc. including supply of necessary fittings etc. complete as per specifications, drawings and directions of Engineer-in-Charge. For following Nom.Size in mm. (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	500.00	5,000.00
224	Supplying and laying above ground mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ASTM A 105 (GALVANISED) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, including laying of pipes on sleeper, walls, including erecting piping on columns, etc. for pump station, overhead tanks, etc. including joining the pipes and fittings with threaded connections, hydrostatic testing of the piping including supply of necessary fittings etc & pipe supports. complete as per specifications, drawings and instructions of Cement Supplied by contractor (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	600.00	6,000.00
225	**MISC. CIVIL AND STRUCTURAL WORKS FOR U/G PIPING AND OTHER CIVIL WORKS**				
226	Providing and laying brick masonry with locally available bricks of specified class (Brick of class lower than specified shall not be accepted) in cement mortar 1:4 (1 cement : 4 Coarse sand) in one or more brick thickness and in any shape in foundation and plinth for valve pits, drains, circular/square manholes, wing walls, etc. including providing recesses, openings, etc. including curing, finishing the joints flush below ground level and raking out joints in plinth with all labour and material, etc. complete as per drawings, specifications and direction of Engineering-Charge. For following Brick Class.	280	cum	9,000.00	25,20,000.00
227	Providing 13mm thick average cement plaster in cement mortar 1:3 (1 cement: 3 sand) on brick walls/stone masonry/pitching or on concrete surfaces for manholes, valves pits, culverts, wing walls, etc. including cleaning and preparation of the surface, scaffolding, curing etc. for all depths and heights complete as per drawings specifications and direction of Engineer-in-Charge. All materials including cement supplied by the Contractor.	750	M2	1,500.00	11,25,000.00
228	**UNDERGROUND SEWER SYSTEM - RCC PIPES**				
229	Supplying and laying underground R.C.C. pipes sewers with socket and spigot ends conforming to IS:458 of approved make, to proper grade and alignment, including earthwork in excavation in all types of soil except soft and hard rock for pipe trenches, etc. including dewatering, shoring and shuttering if necessary, dressing of sides, leveling, grading and ramming of bottoms, cutting the R.C.C. pipes to required lengths, lowering the pipes, jointing, including connecting the pipes to manholes and grouting the pipe body with manhole wall using cement mortar 1:2 (1 cement : 2 sand), testing, draining of water and cleaning of pipe after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness , watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, including cutting of roads wherever required and making good the same, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit etc. complete for all depths as per drawings, specifications and instructions of Engineer-in-Charge.(All material shall be supplied by contractor) For following Pipe size (mm) and Class(The following pipe sizes are all internal diameter of the pipes)				
230	(Dia (Internal) - 100 mm, Piping Material Class - NP2)	15	M	2,000.00	30,000.00
231	(Dia (Internal) - 150 mm, Piping Material Class - NP1)	15	M	2,500.00	500.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
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232	(Dia (Internal) - 450 mm, Piping Material Class - NP2)	70	M	7,000.00	4,90,000.00
233	**UNDERGROUND SEWER SYSTEM-HDPE PIPES**				
234	UNDERGROUND SEWER SYSTEM-HDPE PIPES :- Supplying and laying HDPE pipes conforming to IS:4984 of approved make to proper grade and alignment, including earthwork in excavation for trenches etc. in all types of soil except soft and hard rock including dewatering till completion of subsequent works, shoring and strutting, if necessary, dressing the sides, leveling, grading and ramming the bottom, jointing the pipes using hot plates as per manufacturer's recommendation, lowering, providing and laying 1:5:10 (1 cement : 5 sand : 10 aggregate) plain cement concrete of minimum 100mm thickness on bottom and side of pipe as directed, connecting the pipes to manholes and grouting the pipes to manhole/valve chamber walls, including supplying and fixing the specials and fittings, such as bends, reducers, tees, elbows, caps etc. conforming to IS:8008 or fabricated from pipes as per specification, supplying and fixing of flanges, fixing of online valves, including fixing of bolts, nuts and gaskets etc. as per specifications, testing, draining of water and cleaning of pipes after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness, watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit, cutting of road wherever required, making good the same etc. complete for all depths as per drawings, specification and instruction of Engineer-in- Charge. For the following nominal diameter (mm) Pressure Rating(Kg/Cm2). (Dia (Internal) - 80 mm, Pressure Rating - 2.5 Kg/sqcm)	50	M	1,000.00	50,000.00
235	**PLUMBING AND BUILDING DRAINAGE**				
236	Supplying and fixing approved quality Cast Iron soil/waste pipe conforming to IS:1729 below ground with necessary specials, bends such as Y-junction, T- junction (both single and double) including plugs, shoes, cowls, jointing with lead caulked joints and testing, cutting in floors, earth work in excavation, encasing the pipe in 50mm THK, PCC M20, backfilling and removal of surplus earth upto a lead of 50M etc. complete as per drawings, specifications and directions of Engineer-in-Complete				
237	100mm dia (All materials including cement supplied by contractor)	10	M	1,000.00	10,000.00
238	80mm dia (All materials including cement supplied by contractor)	10	M	950.00	9,500.00
239	**Supplying and fixing gun metal globe valve conforming to IS:778, complete as per specifications and directions of Engineer-in-Charge.**				
240	Dia - 50 mm	2	Nos	4,000.00	8,000.00
241	**Constructing of brick masonry valve chamber in 1:4 Cement mortar(1 cement: 4 sand) with CI frame & cover fixed on M-20 grade cement concrete , necessary excavation, M-20 grade foundation concrete, 13mm thick 1:3 cement plaster on inside & all exposed surfaces, backfilling, removal of surplus earth for all leads within the complex limit etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge. For following Valve size and Brick Class (All materials including Cement supplied by contractor)**				
242	Dia - 50 mm, Brick Class - 5)	2	EACH	30,000.00	60,000.00
243	Providing and fixing approved stone ware 100mmx100mm dia. gully trap as per tender specification, including grating with CI frame and cover 300mmx300mm including brick masonry (brick class shall be as mentioned below) chamber in 1:4 cement mortar(1 cement: 4 sand) on M-20 grade cement concrete foundation, plastered inside and outside surfaces with 1:3 cement mortar (1 cement: 3 sand) with 13mm average thickness including providing and fixing light duty CI frame and cover, painting CI frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat, earth work in excavation, backfilling, removal of surplus earth, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry etc. all complete as per drawings, specifications and directions of Engineer-in-Charge				
244	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	6,000.00	12,000.00
245	Construction as per(Design basis & general technical specification) of brick masonry (brick class shall be as mentioned below) inspection chambers/manholes of 750mmx750mm internal size 1000mm deep(Max.) in cement mortar 1:4 (1 cement: 4 sand) with CI frame and cover 500mm clear dia, (circular Medium duty of grade MD-10) conforming to IS:1726 fixed on RCC slab of M-30				
246	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	20,000.00	40,000.00
247	Construction, supplying, installation, testing and commissioning of septic tank as per standards and IS:2470 Part-I , with all necessary accessories like inlet, outlet vent pipes, manhole covers, rungs etc. including earthwork in excavation in all type of soil except soft and hard rock, backfilling and disposal of surplus earth for all leads etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Potaliya Enterprises

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
248	All material including cement supplied by contractor for (Users - 10 NOS)	1	Nos	2,00,000.00	2,00,000.00
249	**MISCELLANEOUS ITEMS**				
250	Supplying and fixing in position entrance gate in complex boundary wall fencing manufactured out of steel frame work and square MS bars of 20 mm at 100 c/c and horizontal name plate band at lock rail level suitably hinged with box type steel post embedded in cement concrete i.e. providing the tension bar for smooth operation and locking arrangement etc. complete as per tender specification, including painting with two coats of anti-corrosive paint and two coats of approved aluminium/synthetic enamel paint etc. complete as per drawings, specifications and directions of Engineer-in-Charge.				
251	4.0M clear opening width of gate in two panels.	3	Nos	85,000.00	2,55,000.00
252	Supplying & Laying interlocking Paver Blocks for roads, footpaths and any other place etc. including providing 50 mm thick sand filling below Paver Blocks including compaction of sand layer, filling the joints by dry sand, providing precast kerb stone of PCC M-20 at edges, including preparation of compacted sub-grade etc. all complete as per drawing, standard and directions of Engineer-in-Charge. (All material including cement supplied by contractor, paver blocks shall confirm to IS: 15658. cloour and shape of paver block shall be as per owner requirements for following thickness of paver blocks				
253	**(Thickness - 60 mm)**	285	M3	2,000.00	5,70,000.00
254	Supply and installation on terrace, high density polyethylene drinking water circular tank as per IS:12701 and ISI marked including supply and installation of all fittings, cover with suitable locking arrangement, float valve, making necessary holes for inlet, outlet and overflow connection and vent pipe etc. and the base supports for tank including supply of all necessary material all complete as per specifications and directions of Engineer-in-charge. (Sintex or equivalent having valid ISI license) for following capacities.				
255	**capacity - 500 litre**	2	Nos	16,000.00	32,000.00
256	Supplying, installation, testing and commissioning of Upflow Anaerobic Filter with bleaching tank as per TE Std. Drawing with all necessary accessories like, Upstream inlet CI piping from septic tank, Downstream outlet RCC NP2 class piping up to surface storm water drains, CI pipes for filter chamber, CI valve, RCC pre-cast pit covers, steps, perforated pre-cast slabs etc., inlet chamber, Filter chamber, deluding chamber including earthwork in excavation in all type of soil including soft rock, backfilling with murrum or approved soil arranged by the contractor, disposal of surplus earth etc. complete as per drawings, specification and direction of Engineering-Charge (All materials including cement shall be supplied by the contractor, Brick Class lower than 5.0 shall not be used).	1	Nos	50,000.00	50,000.00
257	**DEMOLISHING AND DISMANTLING**				
258	**Brickwork**				
259	**Demolishing BRICKWORK** (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	2,500.00	25,000.00
260	**Demolishing BRICKWORK** (taking all necessary safety precautions) for all heights **above plinth level** including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	2,500.00	25,000.00
261	**RCC**				
262	**Demolishing RCC WORK** (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	2,500.00	25,000.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
263	**Demolishing RCC WORK** (taking all necessary safety precautions) for all heights **above plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	2,500.00	25,000.00
264	**PCC**				
265	**Demolishing PLAIN CEMENT CONCRETE** work (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc. disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation and backfilling shall be paid separately under relevant items)	10	cum	1,000.00	10,000.00
266	**MISCELLANEOUS ITEMS (REFER TE SPECIFICATION)**				
267	**Sand Filling**				
268	Supplying and filling approved SAND of specified quality under floors, in foundations, plinths, tank foundations etc. for all depths and heights including cost of sand,royalties,transportation to site for all leads and lifts, including loading, unloading, spreading in layers of loose thickness not exceeding 150 mm,watering,ramming,compacting with mechanical compactors and/or other equipment to the specified levels to achieve 85% relative density as per IS:2720 Part XIV,including preparation of subgrade to the required slope, providing testing apparatus and testing the degree of consolidation all complete as per drawings, specifications and direction of Engineer-in-charge. The rates shall be inclusive of the cost of all labour,material,equipments etc. all complete .	100	cum	1,000.00	1,00,000.00
269	**SAND GRAVEL MIX**				
270	Supplying and filling sand gravel mix (1:1) with approved aggregate below road, RCC pavement, manholes, pits, foundations, bedding of UG piping etc. in layers of 150 mm loose thickness (maximum) including watering, ramming, rolling, compacting to achieve 85% relative density as per IS 2720 Part-XIV, quarrying, royalties, transportation, handling, etc. all complete as per drawings, specifications and directions of Engineer-in- Charge. (The rate shall be inclusive of the cost of all labour, material, equipment etc. all complete)	105	cum	2,200.00	2,31,000.00
271	**GROUTING WITH NON-SHRINKABLE COMPOUND**				
272	Providing and laying manually or by pumping at all positions a ready mix non-shrink cementitious grout of compressive strength specified below for specified works e.g. pipe support, base grouting of rotating equipment and other installation complete in all respects as per scope of work, detailed construction drawings , technical specifications and directions of the Engineer-In-Charge.				
273	Having compressive strength of 30 N/mm2 , Per bag of 25 Kg	100	Bags	700.00	70,000.00
274	Having compressive strength 45 N/mm2 , Per bag of 25 Kg	20	Bags	1,000.00	20,000.00
275	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains, SS trench of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.	7.5	m2	3,000.00	22,500.00
276	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, leve and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	13.5	cum	15,000.00	2,02,500.00
277	Providing and fixing factory made precast RCC **perforated drain covers**, having concrete of strength not less than M-25, of size 1000x450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos. cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of the Engineer-In-Charge.	515	EACH	12,000.00	61,80,000.00
278	**Borewell and recharge well**				

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
279	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job all complete as per drawing, direction of Engineer -in-charge, in all types of soil :	130	M	3,500.00	4,55,000.00
280	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge.	130	M	2,000.00	2,60,000.00
281	Providing and fixing Bail plug/ Bottom plug of required diameter to the bottom of pipe assembly of tubewell as per IS:2800 (Part-I). :150mm dia	3	EACH	20,000.00	60,000.00
282	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	6,000.00	30,000.00
283	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	6,500.00	32,500.00
284	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	1,500.00	7,500.00
285	Gravel packing in tubewell construction in accordance with IS:4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of the Engineer-In-Charge.	3	cum	2,000.00	6,000.00
286	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS:4270, of reputed & approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size dia having minimum wall thickness 5.00 mm	5	M	8,000.00	40,000.00
287	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	60	M	5,000.00	3,00,000.00
288	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/ 3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS:8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	25	M	7,000.00	1,75,000.00
289	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of 150 mm diameter	1	Nos	5,000.00	5,000.00
290	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS:2800 (Part-I), including necessary bolts & nuts of required size complete 150 mm diameter.	1	Nos	3,000.00	3,000.00
291	Supply, Installation and commissioning of 1.5HP Borwell Submersible Pump	1	EACH	1,00,000.00	1,00,000.00
292	Supply and Installation of 3Cx10Sqmm Copper Flat Cable	200	M	200.00	40,000.00
293	**LANDSCAPING**				

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294	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment).	335	cum	800.00	2,68,000.00
295	Fine dressing of the ground.	1105	M2	100.00	1,10,500.00
296	Providing & laying Selection no. 1 grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden and than rolling the surface with light roller make the surface smoothen and light watering the same maintenance for 30 days or more till the grass establish properly,as per direction of officer in charge	1105	M2	300.00	3,31,500.00
297	Conducting topographical ground/land survey in the specified area as shown in the tender drawings by conventional/GPS or any other standard method, covering details of physical features like Rivers, Nallahs, Lakes, Ponds, wells, pits, Forest, Trees, Roads, culverts, transmission lines, telegraph/ telephone and electric poles, underground or any other services, cross drainage works including cross sectional details of nallah etc. including establishing high flood level with source of information, identification of any monument, historical structure, wild life sanctuary in the vicinity, storm water disposal point with levels, cross-section details of nallah, recording spot levels, top level of nearest state highway or National Highway, including providing in tabulation girth wise no. of trees etc as specified, plotting and developing topographical contour maps, showing true north including establishing survey reference stations, key plan etc. including all equipment's, instruments, personnel's, clearing of bushes as per requirement for intervisibility to carry out survey work etc. , complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of drawings/map and supply of electronic files. Note: Survey work shall be carried out by survey agency approved by Contractor and sample spot witness of levels cordinates by PMC, and shall be submitted to PMC/Owner for review.Survey drawing will be provided in A0 size with clear visibility of all the spots/levels/ contoure and Bench marks. Permanaet bench mark will be stabished at site in a 450x450 mm size 600mm high bick masonry piller.	4220	M2	40.00	1,68,800.00
298	**GEO TECHNICAL INVESTIGATION (Z/02/0022)**				
299	Conducting soil investigation with boring including all field tests and laboratory tests, mobilization and demobilization of equipments & personnel etc. for soil investigation for each borehole location. complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of Reports & recommendations and supply of electronic files.	5	Nos	7,000.00	35,000.00
300	**ANTI-TERMITE TREATMENT**				
301	Supplying chemical emulsion in sealed containers including delivery as specified in the Technical Specifications.				
302	Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	200	LITRE	1,000.00	2,00,000.00
303	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
304	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc. as per Techinal specifications and direction of engineering in charge: With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	80	METRE	500.00	40,000.00
305	Treatment of soil under floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the floor:				
306	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	250	SQM	500.00	1,25,000.00
307	Supply and installation 60mm dia GI pipe for column support of gate	15	M	500.00	7,500.00
308	Supply and installation 100mm dia MS pipe	15	M	600.00	9,000.00
309	Supply and installation 50mm dia MS pipe	15	M	500.00	7,500.00
310	Supply and installation of U-PVC pipes (working pressure 4 kg / cm²) Single socketed pipe 75 mm dia for weep holes	200	M	600.00	1,20,000.00
311	**Sub-Total Section C**				**300.00**

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00
			Date-11.02.2022
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312	**SECTION-D [CATHODIC PROTECTION WORKS]**				
313	**CATHODIC PROTECTION SYSTEM**				
314	**Cathodic Protection system**				
315	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning & Monitoring of the temporary cathodic protection [TCP] system using galvanic anodes to protect the external surface of the pipeline against soil-side corrosion for minimum 2 year or till commissioning of permanent CP system whichever is later . All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard drawings and vendor list as attached with this tender and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	15,00,000.00	15,00,000.00
316	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning of permanent cathodic protection system for 40 years. The scope of work also includes post commssoning surveys and repair of coating/ rectification of cathodic protection system based on the post commissioning surveys. In additon to the same, AC Interference study on the pipelines to be performed and mitigation measures takes to the satisfaction of Owner/ CONSULTANT. All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard and vendor list attached and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	36,00,000.00	36,00,000.00
317	**Sub-Total Section D**				51,00,000.00
318	**SECTION-E [ELECTRICAL WORKS]**				
319	**ELECTRICAL**				
320	**SWITCH BOARDS / UPS SYSTEM/ PANEL**				
321	Supply , Installation, testing and commissioning of LT Switch-boards, AC UPS system with UPS Distribution board & Ni-Cd Battery banks , distribution boards, cubicles with electrical equipment, misc. electrical panels etc., including transportation from store/yard to site at the place of installation, unpacking, assembly, including mounting and wiring of loose parts supplied by equipment vendor, interconnection of shipping sections and requisite inter-panel wiring between shipping sections, including supply of all wiring materials, installation on foundations or fixing to wall or steel structures, aligning, levelling, grouting, including all labour and materials, as per approved drawings, specifications of this tender and directions of Engineer-in-Charge.				
322	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted MEDB	1	Nos	8,75,000.00	8,75,000.00
323	Supply , erection , termination , earthing and commissioning of wall mounted OLDB as per single line diagram of DT stations	1	Nos	1,16,000.00	1,16,000.00
324	Supply , erection , termination , earthing and commissioning of wall mounted ILDB as per Single line diagram of DT stations	1	Nos	1,05,000.00	1,05,000.00
325	Supply , erection , termination, earthing and commissioning of wall mounted SSDB as per Single line diagram of DT stations	1	Nos	1,05,000.00	1,05,000.00
326	Supply , erection , termination , earthing and commissioning of wall mounted AC DB as per Single line diagram of DT stations	1	Nos	92,000.00	92,000.00

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327	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 6 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of DT stations	1	SET	2,00,000.00	2,00,000.00
328	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for DT stations.	1	SET	4,00,000.00	4,00,000.00
329	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 1 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of RT stations	1	SET	30,000.00	30,000.00
330	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for RT stations.	1	SET	70,000.00	70,000.00
331	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted Emergency DB	1	Nos	98,000.00	98,000.00
332	Supply , erection , termination , earthing and commissioning of 32A, 4P, 25kA Auto Change-Over switch as per Single line diagram of DT station-JHARIA	1	Nos	98,000.00	98,000.00
333	**POWER AND CONTROL CABLE**				
334	Supply , laying , termination , erection and testing of 1.1 KV Power and control FRLS PVC Outersheath, XLPE insulated, armored Cables . Outdoor cable will be laid in buried cable trench and in Indoor cable will be laid in Cable trench by provision of Cable tray and supports inside the trench as per PTS - Electrical package P.017110 G 11077 E002				
335	3.5C x 95 sqmm AL FRLS XLPE	300	M	1,400.00	4,20,000.00
336	3.5C x 70 sqmm AL FRLS XLPE	300	M	1,120.00	3,36,000.00
337	3.5C x 50 sqmm AL FRLS XLPE	50	M	880.00	44,000.00
338	3.5C x 25 sqmm AL FRLS XLPE	100	M	710.00	71,000.00
339	4C x 16 sqmm CU FRLS XLPE	100	M	1,850.00	1,85,000.00
340	3C x 2.5 sqmm CU FRLS XLPE	170	M	320.00	54,400.00
341	3C x 6 sqmm CU FRLS XLPE	250	M	820.00	2,05,000.00
342	4C x 6 sqmm CU FRLS XLPE	350	M	830.00	2,90,500.00
343	2C x 6 sq.mm CU FRLS XLPE	100	M	760.00	76,000.00
344	2.5 sqmm Cu. Wire	1800	M	70.00	1,26,000.00
345	6 sqmm Cu. Wire	600	M	150.00	90,000.00
346	**Earthing & Lightning**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Potaliya Enterprises

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
347	Supply , Installation , testing and comissioning of GI Earth electrodes & Cu plate type earth pit complete with earth pit as per IS 3043, PTS-Electrical package and all necessary material including exacavation of earth pit , filling with charcol and salt , back filling, brick work , connections including all labour and materials as approved drawing and specification of this tender and direction of Engineer-In charge.				
348	GI Earth Electrodes				
349	65mm dia x 3000 mm L GI pipe electrode type Earth pit	17	Nos	29,000.00	4,93,000.00
350	**Cu plate Earth Electrode**				
351	600x600x3mm Cu plate type Earth pit	8	Nos	44,000.00	3,52,000.00
352	**Earth strip and wire**				
353	50x 6 mm GI Flat strip	850	M	440.00	3,74,000.00
354	25 x 6 mm Cu Flat strip	50	M	1,125.00	56,250.00
355	2.5 Sqmm Cu wire	250	M	80.00	20,000.00
356	25 x 6 mm GI Flat strip	200	M	250.00	50,000.00
357	10 Sq.mm earthing cable	250	M	260.00	65,000.00
358	GI Earth Bus 50x 6 Sq.mm with all installation assesories	3	Nos	670.00	2,010.00
359	Cu. Earth Bus 50x 6 Sq.mm with all installation assesories (in control room)	4	Nos	1,275.00	5,100.00
360	25x3 mm GI Flat for Lightning as well as down conductors for DT station as per overall earthing layout and GGNG-E-20713-3007	80	M	200.00	16,000.00
361	Other lightning assesories like 20mm dia copper rod, hollosphere ,200x200x6mm ms plate ,anchor/fastner ,test links for DT station as per overall earthing layout and GGNG-E-20713-3007	1	LOT	1,05,000.00	1,05,000.00
362	**OUTDOOR Lighting**				
363	Supply , erection , Testing & commissioning of Outdoor area lighting system including with supply of flameproof / weather proof light fixture , pole , junction box and earthing including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender & Overall outdoor lighting layout of DT & RT station and directions of Engineer- In charge.				
364	100W FLP LED Fixture & FLP Junction box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	4	Nos	58,000.00	2,32,000.00
365	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	2	Nos	3,70,000.00	7,40,000.00
366	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in RT Stations.	7	Nos	3,70,000.00	25,90,000.00
367	1x160W FLOOD LED Fixture with weather proof junction box & 9 mtr high pole with all assesories for open area	6	Nos	78,000.00	)00.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Potaliya Enterprises

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
368	1x70 W Solar type Street LED Fixture with weather proof junction box, VRLA Battery (72 hrs backup time) & 9 mtr high pole for street lighting	4	Nos	1,70,000.00	6,80,000.00
369	1x27 W Post Top Lantran LED Fixture for Gate with weather proof junction box for Gate lamp	2	Nos	20,000.00	40,000.00
370	1x36 W LED industrial fixture suitable to building parapet /wall with all assesories like weather proof junction box/clamp/reducer/	2	Nos	10,500.00	21,000.00
371	**INDOOR Lighting**				
372	Supply, erection, Testing & commissioning of Indoor building area lighting system including with supply of light fixture, point wiring including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender and directions of Engineer- In charge.				
373	2x20 W LED recessed decorative fixture for control room	5	Nos	8,700.00	43,500.00
374	2x20W LED Industrial Fixture for Electrical room	2	Nos	10,700.00	21,400.00
375	1x40W LED Flameproof Fixture for Battery room	1	Nos	16,800.00	16,800.00
376	2x18W LED Industrial Fixture for Varanda/Toilet/ water cooler area/ Guard room	6	Nos	8,800.00	52,800.00
377	1x36W LED Industrial Fixture	4	Nos	10,800.00	43,200.00
378	2x20 W LED recessed decorative fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) control room.	2	Nos	19500	39,000.00
379	2x20W LED Industrial Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Electrical room	2	Nos	22,000.00	44,000.00
380	1x40W LED Flameproof Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Battery room	1	Nos	26,500.00	26,500.00
381	**Switch socket**				
382	Supply and Installation of single/ three phase Switch socket as per Indoor Illumination layout for DT & RT and PTS-Electrical Package and directions of Engineer-In Charge				
383	5/15A surface type switch socket (1 Ph)	7	Nos	675.00	4,725.00
384	5A flush type switch socket (1 Ph)	4	Nos	370.00	1,480.00
385	16A Switch socket (I Ph)	3	Nos	500.00	1,500.00
386	20A Switch socket for AC (1 Ph)	4	Nos	2,900.00	11,600.00
387	Flame proof Junction box for Exhaust fan in Battery room	2	Nos	1,400.00	2,800.00
388	32A Switch socket for welding receptacles (3 Ph)	1	Nos	3,800.00	300.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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389	Modular switch board	12	Nos	575.00	6,900.00
390	**FANS and Exhaust FAN**				
391	Supply ,Installation and testing of Ceiling Fan and Exhaust fan with louvers including all labours and materials as per Indoor Illumination layout for DT and PTS-Electrical Package and directions of Engineer-In Charge				
392	Ceiling Fan 230V AC 1200 mm sweep	3	Nos	5,200.00	15,600.00
393	450 mm FLP Exhaust Fan for Battery room	2	Nos	19,500.00	39,000.00
394	200 mm Exhaust Fan for Toilet	1	Nos	4,400.00	4,400.00
395	300 mm Exhaust Fan for Electrical room/ CO2 room	3	Nos	5,700.00	17,100.00
396	**Air conditioning unit**				
397	Supply ,Installation and testing of Five star 1.5 Ton Split AC with outdoor compressor unit including all labours and materials as per Typical Indoor Illumination layout for DT and directions of Engineer-In Charge				
398	Split Air condition Five star 1.5 Ton	4	Nos	1,18,000.00	4,72,000.00
399	**Hardware and other Accessories**				
400	Supply and Installation of Hardware and other accessories including all labours and materials as per Tender specification PTS-Electrical Package P.017110 G 11077 E002 and directions of Engineer-In Charge				
401	Rubber mat	15	M	2,500.00	37,500.00
402	Rubber hand gloves	1	PAIR	3,400.00	3,400.00
403	Warning Marker	1	Nos	4,400.00	4,400.00
404	PVC Conduit with bend ,tee and other required assesories	1	LOT	92,500.00	92,500.00
405	CAUTION Board & Sock treatment chart	1	Nos	1,280.00	1,280.00
406	Cable route marker as per Standard drawing TE-IN-STD-G-0327	1	LS	62,500.00	62,500.00
407	Fire extingusher and SAND Bucket with Stand	1	SET	6,700.00	6,700.00
408	Ladder type Cable tray - hot dip Galvanized Prefabricated 450 mm wide	55	MTR.	1,480.00	81,400.00
409	Perforated type Cable tray hot dip Galvanized Prefabricated 450 mm wide	35	MTR.	1,650.00	57,750.00

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410	Cable Glands				
411	Cable Glands : Flame proof IIA/IIB double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
412	Cables with upto OD 20 mm & above OD 20 mm as per Single line diagram of DT & RT station	1	LOT	49,000.00	49,000.00
413	Cable Glands : Weather proof double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
414	Cables with upto OD 20 mm to 40 mm as per Single line diagram of DT & RT station	1	LOT	62,500.00	62,500.00
415	**Sub-Total Section E**				**1,17,23,295.00**
416	**SECTION-F [INSTRUMENTATION WORKS]**				
417	**INSTRUMENTATION**				
418	**SUPPLY**				
419	Supply of Pressure Transmitter along with 2 valve manifolds with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	85,500.00	4,27,500.00
420	Supply of Pressure gauge including high range along with 2 valve manifolds with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	18	Nos	28,000.00	5,04,000.00
421	Supply of Pressure gauge including Low Range along with 2 valve manifolds, gauge saver with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	3	Nos	30,500.00	91,500.00
422	Supply of temperature element (RTD) along with flanged thermowell mounted for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	27,000.00	1,35,000.00
423	Supply of Temperature Transmitter with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	7	Nos	53,000.00	3,71,000.00
424	Supply of skin type temperature element (RTD) for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I003), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	2	Nos	23,500.00	47,000.00

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425	Supply of Local control panel with all accessories as per Data sheet (P.017110 G 11087 I011), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, SAT of local control panel,supports/ frame fabrication, earthing and screwing plug for unused entries, painting and integration with RTU. Termination of all Other panel SCADA hard wired signal including RS-485 signals through LCP for RTU/SCADA by Bidder. 1. Digital Barriers 2. Analog Barries 3. Relays 4. three poisition selector switch 5. LED indication lamps 6. Push buttons 7. terminal blocks 8. internal wiring 9. MCBs 10. Door switches 11. cooling Fan 12. LED lights	2	Nos	10,35,000.00	20,70,000.00
426	Supply of Ex-proof junction box with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, iincluding Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.	4	Nos	30,500.00	1,22,000.00
427	Supply of Corrosion Monitoring system with corrosion coupon, Corrosion probe, transmitter and digital indicator (mounted in LCP) as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
428	Corrosion coupon along with accessories.	2	Nos	3,00,000.00	6,00,000.00
429	Corrosion probe along with transmitter, digital indicator, barriers and accessories.	2	Nos	76,000.00	1,52,000.00
430	Supply of Conventional Type Microprocessor based fire detection system along with smoke detector, heat detector, cabinet, manual call point, Independent 24 Hrs battery backup with 15 min in alarm state, repeater panel and Electrical Operated Siren, exit signs and cables fromsensor ,MCP, siren, hooter to controller as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
431	Controller along with cabinet along with cabling	1	Nos	2,35,000.00	2,35,000.00
432	Multisensor (smoke & heat)	10	Nos	6,000.00	60,000.00
433	WP IP 65 Manual call points	6	Nos	5,400.00	32,400.00
434	Ex Proof and WP IP 65 Manual call point	1	Nos	27,000.00	27,000.00
435	WP Hooter & Flasher	1	Nos	23,000.00	23,000.00
436	Repeater panel	1	Nos	1,23,000.00	1,23,000.00
437	Exist sign	6	Nos	15,500.00	93,000.00
438	Electrical siren Exd	1	Nos	40,500.00	500.00

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439	24 Hrs battery backup	1	Nos	10,000.00	10,000.00
440	Supply of Conventional type gas detection system along with controller, ex proof point gas detectors, beacon hooter, flasher, , cabinet, portable gas detector, calibration kit, alignment kit as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
441	Controller with cabinet	1	Nos	2,80,000.00	2,80,000.00
442	Point gas detectors	12	Nos	1,60,000.00	19,20,000.00
443	Panel Mounted hooter	2	Nos	20,500.00	41,000.00
444	Dual tone Hooter & Beacon Ex"d" with reset push button	2	Nos	26,800.00	53,600.00
445	Portable gas detecotrs	1	Nos	1,23,000.00	1,23,000.00
446	Calibration kit	1	Nos	1,09,000.00	1,09,000.00
447	Ex d Junction Box	2	Nos	26,800.00	53,600.00
448	Supply of Universal type Hand Held Configurators for transmitters with carrying case, rechargeable batteries (one working and one standby), and battery charger as per Data sheet,PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work	1	Nos	6,87,500.00	6,87,500.00
449	Supply of Instrumentation signal cable, control cable, communication cable/LAN cable, Power cables along with all sizes cable glands (WP & Exd), PVC hood, lug, ferrule, etc including Cable laying (buried as well as tray) along with termination, glanding, meggering and loop checking including supply of ferrule, lugs, cable tie, cable clamp, cable marker etc. as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.				
450	1Px 1.5mm2	500	MTRS.	140.00	70,000.00
451	12Px 0.5mm2	900	MTRS.	780.00	7,02,000.00
452	1Qx1.5mm2	30	MTRS.	220.00	6,600.00
453	12Tx1.5mm2	200	MTRS.	1,120.00	2,24,000.00
454	1Tx1.5mm2	180	MTRS.	200.00	36,000.00
455	6Px0.5mm2	200	MTRS.	530.00	1,06,000.00
456	2Px1.5mm2	200	MTRS.	210.00	42,000.00
457	Cat 5 (LAN)	160	MTRS.	220.00	35,200.00
458	3C x 2.5mm2	240	MTRS.	280.00	67,200.00

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Approved

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459	Supply & laying of Instruments cable tray with tray cover (Branch Cable tray (50mm x 50mm), Main cable tray 900 mm, cable tray 300mm, cable tray 150 mm.) as per requirement, instruments/ PGD, CCTV/ mounting poles, instrument protection sun sheds, angles, channels, MS plates & all the erection materials and as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including installation of support, cable clamping, installation of tray cover and support painting.	1	LS	5,23,000.00	5,23,000.00
460	Supply , installation & laying of tubes and fittings as per requirement and as per PTS-Instrumentation with appendices and Scope of Work C&I. SS 316L TEE (1/2", Class 3000#, Screwed, NPTF, Seamless) ,SS316L GLOBE/BALL VALVE (1/2", Class 800#, Screwed, NPTF, Seamless), SS316L PLUG (1/2", Screwed, NPTM, Hex head, class 3000#), SS316L PIPE NIPPLE (½" NPTM, seamless, schedule #160) Length of the pipe nipple as per requirement, SS316L MALE CONNECTOR (1/2" OD x 1/2" NPTM), SS316L FEMALE CONNECTOR (1/2"OD x 1/2" NPTF), SS316L UNION (1/2" OD), SS316L TUBE (1/2" OD x 0.065" WT), SS316L TUBE (1/4" OD x 0.035" WT)	1	LS	6,25,000.00	6,25,000.00
461	Supply of mandatory spares as per Mandatory Spare (P.017110 G 11075 I001)	1	LS	1,56,000.00	1,56,000.00
462	AT Jharia - Installation of metering skids, metering cabinet under the supervision of skid supplier, cable laying and terminal of cable from skid junction box to metering system cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	1,78,000.00	1,78,000.00
463	At Jharia Installation of gas chromatograph skid, analyser & controller cabinet under the supervision of skid supplier, cable laying and terminal of cable from analyser cabinet to controller cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	98,000.00	98,000.00
464	At Jharia Installation of H2S & Moisture analyser skids, cabinet under the supervision of skid supplier, laying and terminal of cable from skid field mounted cabinet to LCP/RTU. Including supply of all the required erection, fabrication and civil materials.	1	LS	98,000.00	98,000.00
465	At SV 28 Spare Input output available in existing RTU, internal wiring at site, field connection, configuration and commissioning., interfacing with LCP and configuration of new parameters in existing RTU, as per Scope of Work.	1	LS	3,40,000.00	3,40,000.00
466	**Sub-Total Section F**				**1,17,38,600.00**
467	**SECTION-G [TELECOM WORKS]**				
468	Supply Telecommunication system, SDH equipment STM-4 Based SDH Cabinet of (2000H x 800W x 800W along with 100 mm base frame) as per below configuration: - 2*STM-4 + 2*STM-1 + 8FE ports as per PTS-Telecommunication system (P.017110 G 11077 I002), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including erection, testing, integration with existing NMS at Noida, Commissioning and integration with existing telecom system at SV 28 additional SFP of L4.2 for SV 28 connectivity	1	Nos	1,00,000.00	1,00,000.00
469	Supply of CCTV-IP based Fixed colour camera and PTZ colour camera along with power cable, communication cable at each station as per PTS-Telecommunication system (P.017110 G 11077 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work., including erection, testing, integration with existing VMS at Noida, Commissioning and integration with existing telecom system at SV 28				
470	Fixed Camera WP IP65	1	Nos	25,000.00	25,000.00
471	PTZ camera WP IP65	1	Nos	35,000.00	35,000.00
472	Supply of one Analog phones control room, one number in guard room and one number WP IP66 in field safe area as per PTS-Telecommunication system (P.017110 G 11077 I002) , PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work				
472	Analog Phone	2	Nos	2,500.00	00.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Potaliya Enterprises

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
474	Analog Phone Ex Proof WP IP 65	1	Nos	5,000.00	5,000.00
475	FXO cards	1	Nos	10,000.00	10,000.00
476	FXS	1	Nos	10,000.00	10,000.00
477	Five pair armoured telephone cable, size 0.5mm2	100	MTR.	50.00	5,000.00
478	AT Jharia- Free issue RTU by GAIL: Transportation from Gail store to site location, installation, cabling from LCP to RTU, commissioning etc. Erection, installation of RTU inside the station control room including supply of all the required erection materials, fabrication and civil works	1	LS	1,00,000.00	1,00,000.00
479	At SV 28 Spare Input output available in existing RTU, internal wiring at site, field connection, configuration and commissioning., interfacing with LCP , cable laying from LCP to RTU, and configuration of new parameters in existing RTU, as per Scope of Work.	1	LS	1,00,000.00	1,00,000.00
480	**Sub-Total Section G**				**3,95,000.00**
	Total of Section A + B + C + D + E + F + G				**16,10,65,755.00**
479	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Total of Section A + B + C + D + E + F + G above	18	percentage	18	2,89,91,835.90
480	Rate of Extended Stay Compensation per month beyond the time schedule and grace period mentioned in Bidding document for reasons solely attribute to Owner (exclusive of GST) Notes:- 1;- Extended Stay Compensation shall be loaded on the quoted price as per evaluation methodology. 2;- In case, no rate for extended stay compensation is stipulated, it will be considered that extended stay compensation is not required by the Bidder and the rates quoted by them shall be valid till completion of works in all respects.	1	Nos	10,00,000.00	10,00,000.00
481	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Extended Stay Compensation at Sl. No. 480 above	18	percentage	18.00	1,80,000.00
	Grand Total				19,12,37,590.90

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Shakti Engineers

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
				UNIT RATE	TOTAL RATE
1	**SECTION-A (MAIN LINE WORKS)**				
2	**CH.0.00 KM to CH.5.667 KM**				
3	**MAINLINE, PIPING AND MECHANICAL**				
4	PIPELINE LAYING / INSTALLATION Laying/ installation of coated line pipe, associated fittings and accessories, etc. as per specifications, drawings, other provisions of Contract and instructions of Engineer-in-Charge, including but not limited to carrying out the following: "Receiving and taking-over", handling, loading, transportation and unloading of Owner supplied coated and bare line pipes and other Free Issue Materials from Contractor's own stock-yard to Work site including stringing on the pipeline Right-of-Use (ROU), Arrangement of all additional land required for Contractor's storage, Performing the additional survey wherein survey data is not sufficient in the opinion of Contractor, arrangement of working RoU if RoU width is not sufficient for equipment/ vehicle movement etc., access for construction (other than Owner provided ROU; Developing necessary access way to the worksite, including earth filling, levelling, etc.; supply of all materials (except Owner supplied materials), supply of all materials, consumables, equipment, labour, etc.; fabrication, Staking and installation of construction markers, clearing, grubbing, grading (as required) of Right of Use; clearing and grading of ROU; Cutting/ uprooting of shrubs, plants, vegetation within ROU; , Trenching to all depths and to a width to accommodate the pipeline with optical fiber cable (inside HDPE Duct) by excavation in all types of soil (in case of hard rock, additional payment for hard rock breaking will be paid as per separate SOR line item), including additional trenching for seismic and other areas as specified,(Rate for laying of optical fibre cable and HDPE Duct not be included here and same to be quoted against separate SOR item); Carrying out repairs of pipe and coating defects not attributable to Owner; Thorough internal cleaning of all pipes by suitable methods to remove debris, shots, grits etc.; Stringing of line pipes along ROU including providing straw bags, soft padding/sand padding; Aligning, cold field bending, cutting and beveling (as required) of pipes for welding and field adjustments, NDT & NDT of re-beveled area, welding, carrying out destructive & non- destructive testing of welds required as per approved NDT specifications (including radiography) and providing all requisite equipment, labour, supervision, materials, films, consumables etc.; carrying out repairs of weld joints as required, carrying out re- radiography and other non-destructive tests on repaired joints, etc.; Installation of carrier pipe including concrete coated pipes (wherever required).				
5	(Concrete Coating on pipes, covered separately) at all crossings including roads/ canals/ nala/ water crossings etc. (supply and installation of casing pipe by open cut or by Jacking/ boaring method covered separately) including pre-testing as required; Carrying out installation of carrier pipe in the casing pipe at cased crossings; Coating of all field weld joints, long radius bends (fabrication of Cold field bends covered here and fabrication of 6D bends by induction heating covered separately), buried fittings etc.; Supply & Installation of warning tape along the entire length of Pipeline including Crossing. Lowering the pipelines in trench, providing required padding over and around the pipeline with sand/graded material (in rocky areas), backfilling with available approved excavated material and/or other suitable soil (supply and providing of soft soil for pre & post padding in Rocky area); Supply and installation of slope breaker as per specifications and drawings in steep slope areas, wherever required; Carrying out hydrostatic testing including air cleaning, flushing, filling, gauging, pressurization of complete pipeline in various test sections as approved by Engineer-In-Charge to the specified test pressure, providing all equipment, pumps, fittings, instruments, dead weight tester, all types of pigs etc., and services, supervision, labour, consumables, arranging water required for hydrostatic testing including supply of corrosion inhibitor, air, etc. as required, locating of leaks and rectification of defects attributable to Contractor, re-testing after rectification, successful completion of hydro-testing of pipeline (De-watering covered else where in the SOR); including all tie-in(s) with the pipeline/ piping installed by others including cutting of test header, re- beveling as required; Carrying out all temporary, ancillary, auxiliary works and all incidental works required to make the pipeline ready for pre- commissioning; Carrying out EGP for the entire stretch of completed pipeline, Repair of defects recorded during EGP/gauge plate run or otherwise including cutting, beveling, welding, NDT, field joint coating etc.; as applicable, Final clean-up and restoration of right of use including obtaining NOC from respective statutory authorities as required and disposal of debris and returning all surplus material to designated disposal areas/storage yard, as directed by Engineer-In-Charge; Restoration of land, facilities and boundary wall etc. at associated facilities dismantled/damaged by the Contractor during construction; Obtaining work permits/ NOC from various statutory authorities having jurisdiction and complying with all stipulation/conditions/recommendation of the said authorities; Preparation of as-built drawings, pipe-book and other records. SOR shall be read in conjunction with Project drawings, scope of work, specifications, standards and other provisions of contract document. The work includes the Survey data & site preparation, Stringing/Chainges in direction, Beveling of pipe element, Welding Procedure Qualification & Welders Qualification, Welding of pipe element, Inspection & testing of production welds, Field joint coating, controlled blasting, chiseling, etc., Material hand over & material handling, Lowering-in & ballasting, All crossings except HDD as mentioned in Crossing List (including installation of carrier pipe inside the Casing at cased crossing) Backfilling (for all depths in all types of soil, soft /hard rock) including trench padding with sand, graded earth in rocky areas & rock shield(if required as per specs) reinstatement				
6	All above works shall be executed in accordance with scope of work, GTS, PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. 1. Supply and Installation of OFC and HDPE Ducts along the entire pipeline route, adjacent to the new pipeline, along with all required accessories, fittings and associated items, is covered separately in the SOR. All above works for buried pipeline (including hook-up pipeline from Tap Off Point inside ONGC GCS, Jharia upto proposed plot for GAIL DT), as per following details :				
7	ND 8", API5L X60 - 6.4 mm	4250	M	2,800.00	1,19,00,000.00
8	ND 8", API5L X60 - 7.1 mm	1588	M	3,000.00	)00.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Shakti Engineers

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
9	Concrete slabs (Mechanical Protection) as per technical specifications Supply, fabrication and installation of reinforced concrete weights. Reinforced steel size should be 8 mm. top and bottom at a rate of 200 mm c/c of precasted RCC 1:2:4 on pipeline of wall thickness of 75 mm thick and size as per specifications & Standard drawings and instructions of Owner/ Owner's representative including supply of consumables, materials, equipment, labor, supervision, all associated civil works.	110	M	2,500.00	2,75,000.00
10	Continuous Concrete Coating Supply of all consumables and materials, equipments, manpower, submission of application procedure with calculations for anti-buoyancy, design mix procedure qualification and application of continuous concrete weight coating thickness mentioned below (higher also, in case design requirements) on pipeline of all thickness, concrete weight coating of the field joints thereof, and performing all works as per specifications and instructions of Owner/Owner's representative and other provisions of CONTRACT DOCUMENT.				
11	25 mm thick	12	M	5,000.00	60,000.00
12	30 mm thick	12	M	6,000.00	72,000.00
13	GEO TEXTILE BAGS FOR ANTI-BUOYANCY				
14	Additional works over and above item no. 4 to 8 for design, manufacture and supply of Non-biodegradable geo-textile bags and installation of geo-textile bags duly filled with gravel/ stone ballast on pipelines of all wall thicknesses for anti-buoyancy, drawings, scope of work and instructions of Engineer-in-Charge and other provisions of the Contract document.				
15	ND 8" (for all thicknesses)	12	M	3,000.00	36,000.00
16	Permanent Markers Supply, fabrication and installation of following types of permanent markers along the pipeline route including all associated civil works such as excavation in all types of soil, construction of pedestals and grouting with concrete, clearing, supply & application of approved color and quality of primer and paint, stencil letter cutting for numbers, direction, chainage, etc. restoration of area to original condition and performing all works as per drawings, specifications and instruction of Owner/Owner's Representative.				
17	Pipeline Warning Signs	14	Nos	7,500.00	1,05,000.00
18	Right-of-way boundary markers	22	Nos	2,500.00	55,000.00
19	Kilometer Markers	4	Nos	1,000.00	4,000.00
20	Aerial Markers	1	Nos	12,000.00	12,000.00
21	Directional Markers	69	Nos	7,500.00	5,17,500.00
22	Repair of Defects in Pipe Coating (Attributable to OWNER)				
23	Repair of Line Pipe Coating: Supply of all coating repair materials as per the requirements of the relevant specifications, supply of all consumables, utilities, equipment, and all manpower required, pipe cleaning and surface preparation, repairing of coating defects (resulting in holiday in coating) and testing including all handling, transportation, etc. for line pipes, performing all works necessary for the completion of the works strictly in accordance with the relevant specifications and instructions of OWNER.				
24	Repair of Holidays in Coating	20	Nos	600.00	12,000.00
25	Repair of Cosmetic Defects in Coating: Description of same as in item no 23 above, but for repair of cosmetic defects in coating.	30	m3	700.00	21,000.00
26	**Repair of Defects in Line Pipes**				
27	Repair of OWNER supplied pipes of all wall thicknesses, recorded at the time of taking-over by CONTRACTOR at all places of work.				
28	Cutting and rebevelling	15	Nos	700.00	10,500.00
29	Jack out method	15	Nos	300.00	4,500.00

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30	All works for locating burst (occurred during hydrostatic testing and tightness test attributable to Owner issued materials) including detecting burst, necessary repairing/replacing defective pipe lengths, including cutting out and removing the defective pipe, pretesting the replacement pipe, welding of replacement pipe into mainline and NDT of welding, repair and re-testing of defective welds, coating of welded joints, cleanup, retesting including providing all labor, materials, consumables and inputs other than OWNER supplied materials and performing all works as per drawings, specifications and directions of Owner/ Owner's representative. In case of pinhole leaks not easily detectable all works for locating leak (occurred during mechanical resistance test and tightness test attributable to Owner issued materials) including detecting leak, The Payment will be made as per actual efforts and based on Equipment and manpower Rate provided in SCC . Further replacement & retesting will be paid as above.	2	Per burst	15,000.00	30,000.00
31	LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER) (FOR TERMINAL PIPING) LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER DUE TO FIM) All works for leak/burst (occurring during hydrostatic testing) by necessary repair/replacement of defective pipe length, including cutting and removing out defective pipes, welding, NDT of welds, repair and re-testing of defective welds, painting of welded joints, clean-up, re hydro testing of the pipe segment including providing all necessary equipment, labour, materials, consumables and inputs other than Owner supplied materials and performing all works as per drawings, scope of work, specifications, standards enclosed with the Contract and directions of Engineer-in-Charge. Note: 1. This rate shall be applicable for manufacturing defects in Company supplied materials only.	6	Inch-meter	1,000.00	6,000.00
32	IDLE TIME PRESERVATION OF PIPELINE Preservation of complete pipeline and associated facilities and its maintenance including supply of all consumables, all equipment, man- power, etc., complete as per the requirements of specifications, scope of work, standards, other provisions of Contract document and instructions of Engineer-in- Charge. By filling and pressurizing with nitrogen including supply and maintenance of nitrogen as per following details:				
33	Pipe OD - 8 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - 3 MONTH	6030	M	110.00	6,63,300.00
34	Pipe OD - 8 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - FOR EVERY ADDITIONAL MONTH BEYOND INITIAL 3 MONTHS	6030	M	125.00	7,53,750.00
35	**PRE-COMMISSIONING FOR NATURAL GAS PIPELINES SYSTEM, Carrying out pre-commissioning activities and pre-commissioning checks to the specified acceptance criteria, making the entire pipeline system ready for commissioning (It includes cleaning including magnetic cleaning, Electrical Geometrical Pigging survey, dewatering, swabbing,, pre-drying activity, Golden-tie ins connecting the stations),, supply of all equipment, man-power, consumables, including all type of pigs and required quantity of nitrogen, materials for all temporary works and performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.**				
36	Pipe OD - 8 INCH	6030	M	250.00	15,07,500.00
37	**Commissioning Assistance**				
38	OVERALL COMMISSIONING OF ENTIRE PIPELINE SYSTEM Overall commissioning including system checks, inertisation (as required) and charging of entire pipeline system, including all stations and all associated facilities including notifying the Company that the pipeline system is ready for commissioning; Review of status jointly with the Company and obtaining final clearance for start of commissioning; Development and submission of commissioning procedures, obtaining Company approval thereupon, carrying out overall commissioning of the total pipeline system including all facilities and all necessary coordination/ liaison with other Contractor(s) operations; Carrying out commissioning; Supply of all equipment like Nitrogen vapourisers (as required), along with all piping and instruments, temporary venting/ flaring/draining facilities as applicable, man-power, consumables including pigs and required quantity of Nitrogen (as required); Performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.				
39	Pipe OD - 8 INCH	6030	M	125.00	7,53,750.00
40	PIPELINE INFORMATION MANAGEMENT SYSTEM Providing pipeline information management system using web based software for monitoring pipeline construction progress and providing all "As Built" data & drawings for entire length of pipeline as per specifications enclosed with the tender document.	1	LS	7,50,000.00	7,50,000.00
41	VIDEO FILM & PHOTOGRAPHY OF CONSTRUCTION ACTIVITIES Preparation of high resolution video films with audio commentary and Industrial photography covering all aspects/activities of pipeline construction annotated as required, conversion of same to video DVD/Blue Ray format, submitting three (3) sets of the same as per details in scope of work document	1	LS	3,00,000.00	3,00,000.00
	FABRICATION OF LR BENDS :				

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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43	Fabrication of 6D bend / LR (Induction) bends as per the relevant standard & Specification attached with the tender document from free issue linepipes (mother pipe) including but not limited to the following: "Receiving and taking over of free issue linepipes" from GAIL Dump Yard location as mentioned in Scope of Work, carrying out inspection of line pipe at the time of receive taking over in the presence of Company representative, carrying out repair of pipe defects attributable to Contractor after taking over, including supply of consumables & equipments; handling, hauling, transportation and loading/unloading required to transport the mother pipes between place of issue, LR bend fabricator/ manufacturer, intermediate storage as required, and final delivery of fabricated LR Bends to the worksite(s), as per requirement, Manufacturing/ fabricating of LR Bends, as per project requirements and Specifications. LR bends exact angle(s) shall be as per pipeline alignment. Note:- 1. Rate for repairing of defects in linepipes identified and recorded at the time of receiving & taking over i.e. defects attributable to Company shall be quoted separately in the applicable items of the SOR. 2.Loading of Pipe into installation contractor trailer shall be carried out by the GAIL Dumpyard maintenance agency already engaged by the Company.				
44	Bare Pipe ND 8", API5L X60 - 6.4mm	8	Nos	25,000.00	2,00,000.00
45	Bare Pipe ND 8", API5L X60 -7.1 mm	15	Nos	30,000.00	4,50,000.00
46	**SUPPLY AND INSTALLATION OF CASING PIPE & 6 INCH CS CONDUIT:** Supply and installation of casing pipe and 6 inch CS conduit for OFC by jacking / boring or open cut for rail, road or canal crossings wherever required in all types of soils and terrain separately for carrier pipes and fibre optic cable inside HDPE duct, supply of casing pipes and all other Contractor supplied materials viz. casing insulators and casing end seals as per enclosed drawing, materials for casing vents and drains, etc. including transportation, supply of all other materials, equipments, consumables, man-power, welding including visual inspection of all weld joints, installation of casing insulators, end seals, vents and drain-off pipes, backfilling and restoration as original of the facility crossed and performing all works as per drawings, specifications including PTS and GTS and instructions of Engineer-in Charge and provisions of Contract document.				
47	Supply and installation of Casing pipe by Boring / Jacking as per item no. 46 (Railway crossing) Casing Pipe Details: (Pipe 14" , 8.7 mm Thick, API 5L GR.B)	200	M	25,000.00	50,00,000.00
48	Supply and installation of Casing pipe by Boring / Jacking as per item no. 46 (Other than Railway Crossings) Casing Pipe Details: (Pipe 14" , 6.4 mm Thick, API 5L GR.B)	12	M	22,000.00	2,64,000.00
49	Supply and installation of 6 inch CS Conduit by Boring/Jacking as per item no. 46 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	200	M	12,000.00	24,00,000.00
50	Supply and installation of Casing pipe by open cut as per item no. 46 Casing Pipe Details: (Pipe 14" , 6.4 mm Thick, API 5L GR.B)	12	M	18,000.00	2,16,000.00
51	Supply and installation of 6 inch CS Conduit by open cut as per item no. 46 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	12	M	15,000.00	1,80,000.00
52	**HDD CROSSING**				

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53	**Generalities**				
54	Topographic / Bathymetry, Geotech Investigation and Hydrological data collection				
55	Site preparation				
56	Design & stress calculations as per requirement				
57	Material hand-over and material handling				
58	Site reinstatement				
59	Final dossier including all notes & calculations as required in the specification				
60	***Installation of 6 inch CS Conduit***				
61	Teletransmission--Separate Drilling for 6 inch CS Conduit for OFC installation				
62	Installation of HDPE duct & OFC cable inside 6 inch CS conduit				
63	Drilling & Pulling of 6 inch CS Conduit shall be done before mainline HDD.				
64	***Pipeline string***				
65	Beveling & welding				
66	Inspection & testing of welds				
67	Field joint coating				
68	Temporary support (roller)				
69	Control of pipeline string				
70	Hydrotesting & leak test				
71	***Drilling operation***				
72	Earthwork entry / exit points including grading erection of embankment etc..				
73	Supply & clearing out of all material needed for drilling				

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74	Drilling of washer pipe, reaming & cleaning of drill opening, supply and preparation of bentonite				
75	Pull back of the pipe string				
76	Disposal of surplus of soil & bentonite				
77	Control of the integrity of the coating				
78	***Work at entry point***				
79	Changes in direction				
80	Beveling & welding				
81	Inspection & testing of welds				
82	Field joint coating & coating of all bare section of pipe				
83	Earthwork				
84	Lowering-in				
85	backfilling as required				
86	***Work at exit point***				
87	Changes in direction				
88	Beveling & welding				
89	Inspection & testing of welds				
90	Field joint coating & coating of all bare section of pipe				
91	Earthwork				
92	Lowering-in				
93	backfilling as required				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Shakti Engineers

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
94	Complete work for the water/ Road/ Rail crossings, including taking over and handling of linepipes from Contractor Storage Yard to worksite, Arrangement of all additional land required for Contractor's storage, fabrication, access for construction; construction design calculation and engineering of the crossing, mobilization and demobilization at site(s), supply of all materials as per "Scope of Supply" and all consumables, equipment, manpower and other resources, and acquiring the required land for site preparations, and execution of, but not limited to, the following works in accordance with specifications, drawings, and as per provisions of the Contract document and instructions of the Company/ Engineer-in- Charge: Carry out all surveys required for collecting data relevant to design and construction of the crossing, preparation of all necessary construction drawings for Company's approval as per the provisions of the Contractor document, Preparation of detailed construction method statement and calculations including Scour Depth calculations for river/ canal crossings, Strings preparation including welding, 100% Radiography of welds, NDT of welds and re-beveled areas, radiography, weld repair and re-test, pre-testing of completed string, corrosion coating of field joints with Dirax or equivalent, inspection of corrosion coating and repair of defects, Preconstruction surveys and collection of all necessary data, Installation of pipeline and CS conduit (6 Inch CS Conduit shall be installed through Seperate Drilling) , horizontal directional drilling to the correct profile as per approved drawings and specification, Post-installation hydrotest including leaks and repair of defects and retesting, etc. for defects attributed to Contractor's faulty work, Supply, fabrication and construction of protective fencing as required, Hydrotesting, Supply, fabrication and erection of pipeline markers, Restoration and clean-up etc., Preparation of as-built drawings and other records etc., All other works not specifically listed herein, but required as per specifications, drawings, provision of contract document, calculations, and construction method statements, leading to successful completion of works.				
95	Linepipe details:- (Pipe 8" dia, Wall Thickness: 7.1 mm, Pipe Grade: API 5L GR.X-60 PSL 2, External Coating: 3LPE) CS Conduit details: (Pipe 6" dia, 6.4mm Thick, API 5L GR.B) Note: 1. CS Conduit shall be supplied by the Contractor. Radiography & Hydrostatic testing is not required to be done for CS Conduit. (6 Inch CS Conduit shall be installed through Seperate Drilling) Contractor shall quote accordingly. 2. The rate shall be applicable for the drilled length of the HDDs. All above works shall be executed in accordance with scope of work, GTS,PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. This line item is applicable for HDD crossing mentioned in the Crossing List with prior approval of Engineer - In-Charge during Construction.	192	M	22,000	42,24,000.00
96	**SUPPLY & INSTALLATION OF OPTICAL FIBBE CABLE AND HDPE DUCT**				
97	Suppy of 24 Fibre Composite armoured Optical Fibre Cable drum (6 fibre G-655 & 18 fibre G-652) of 4 km +/-5% Cable drum length with fiber terminal closure, inspection chamber, electronic route marker all along pipeline route, Two number electronic locater as per PTS-Optical Fibre cable and Scope of Work C&I along with all required accessories and fitments not mentioned seperately.	7000	M	165	11,55,000.00
98	Inspection/Jointing Chamber (fabricated or readymade)	3	Nos	15,000	45,000.00
99	Blowing Pit (fabricated or readymade)	7	Nos	11,000	77,000.00
100	Supply of jointing closure 24 Fiber, 2 way including all accessories (3M, Siemens, Reychem make only)	3	Nos	8,000	24,000.00
101	Supply of End to End OFC termination of wall mounted FTC with pig tails other accessories for termination of OFC - 24 Fibre in the Telecom Room at Jharia & SV28	2	Nos	60,000	1,20,000.00
102	Electronic marker	3	Nos	15,000	45,000.00
103	Electronic Locator	1	Nos	2,50,000	2,50,000.00
104	Supply of 50mm OD permanently lubricated HDPE telecom duct along with all the required accessories as per PTS-Optical Fibre cable and Scope of Work C&I	7000	M	125.00	)00.00

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105	Laying of HDPE Duct : Laying of 50mm HDPE Ducts in same pipeline trench direct buried, or inside 6 inch CS conduit at various crossings as per Specification in all type of soil & terrain, excavated as required, padding, backfilling, etc. including supply of accessories required for HDPE Duct installation, including plastic couplers, end plugs, cable sealing plugs, end caps, etc. suitable & sufficient for above supplied ducts, cleaning and sealing of ducts at the end laid drum lengths, preparation and supply of cable blowing pit at each Km jointing of HDPE duct, testing of HDPE Duct and accessories after laying preparation of report and final drawing and documents as per specification, joint location marking, erection accessories, as-built, etc.	7000	M	95.00	6,65,000.00
106	Blowing of Optical Fibre Cable inside HDPE Duct : All activities pertaining to Blowing of Optical Fibre Cable in same pipeline trench directly (after testing drum at site), inside HDPE duct along the pipeline and at crossing, sealing using all materials required as per specification	7000	Nos	105.00	7,35,000.00
107	Installation of FTC & Wire mesh, termination of OFC on FTC / DDF inside telecom room, splicing with steet fibre, fibre test, OTDR test, power testing of laid OFC, identification of fault, rectification, earthing, final testing and commissioning, preparation of reports, etc. work complete in all respect with all necessary accessories for all location till final Handing Over and Taking Over by Owner of laid OFC.	1	LS	1,00,000.00	1,00,000.00
108	**TRANSPORTATION OF COATED AND BARE LINEPIPES FROM GAIL DUMPYARDS (ANY LOCATIONIN INDIA) TO CONTRACTOR STORAGE YARD:**				
109	"Receiving and taking over" of "free issue" Linepipes from GAIL Dump Yard location (any location in India); Carrying out inspection of Linepipes at the time of receiving and taking-over, recording of pipe & coating defects at the time of taking over in the presence of Company's representative, carrying out repair of coating defects & pipe defects attributable to Company; including supply of materials, consumables & equipments; handling, hauling and transportation from designated place of issue to Contractor Storage Yard; unloading and stacking of the linepipes at Contractor Storage Yard; including arranging all equipments, trailers, trucks & manpower; all works as per Scope of Work, drawings, PTS, GTS and other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, Provision of Contract & instructions of Engineer InCharge.				
110	Linepipe Details:- Coated and Bare Line Pipe 8" diameter API 5L Gr. X-60 PSL-2 Wall Thickness - 6,4mm / 7.1mm External Coating - 3LPE, Internal Coating - Liquid Epoxy 1) Loading of Pipes into Installation contractor's trailer shall be carried out by the contractor. 2) Development & Maintenance of Contractor Storage Yard adequate to store the linepipes including arrangement of all Lifting & Handling equipment at Contractor's Storage Yard shall be done by the Contractor. Rate for the same shall be quoted in applicable items. 3) Rate for repairing of coating defects in linepipes identified and recorded at the time of receiving & taking over i.e. coating-defects attributable to Company shall be included in this item. 4) Rate for repairing of pipe-defects identified and recorded at the time of receiving & taking over i.e. pipe-defects attributable to Company shall be quoted separately in the applicable items of the SOR. 5) Transportation of line pipe from Contractor's Storage Yard to work site is included in SOR item 1 above, No separate payment will be applicable for the same.	350000	Ton-Km	48.00	1,68,00,000.00
111	TRANSPORTATION OF FREE ISSUE PIPING ITEMS (OTHER THAN LINE PIPE) FROM GAIL STORAGE YARDS (ANY LOCATION IN INDIA) TO CONTRACTORS YARD / WORKSITE(S) : "Receiving and taking-over", handling, lifting, loading, transportation and unloading of Company supplied "free-issue materials" (Other than line pipe) viz. Metering Filtering and PRS Skid, Scrapper Launcher/ Receiver & accessories, Valves with or without Actuators, Insulation Joints, Flow Tee, Pig Signallers, fittings, flanges etc. from GAIL Storage yards location (any location in India) to Contractor's Storage Yard / work-site(s). Note:- 1) Location of GAIL Storage Yard shall be anywhere in India. Contractor shall quote accordingly. 2) Transportation of FIM from Contractor's Storage Yard to work site, is included in SOR item 119 below, No separate payment will be applicable for the same.	24000	Ton-Km	41.00	9,84,000.00
112	**DEVELOPMENT OF CONTRACTOR STORAGE YARD:**				

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113	Development of the Contractor Storage Yard including fencing, illumination etc., including deployment of all lifting and handling equipments, manpower required to stack, unload and load all Free Issue Material (FIM) including Line Pipes and all bought out items, as required; storage of all Free Issue Material and bought out items for the required duration as per project requirement, all works as per Scope of Work, drawings, other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, PTS, GTS and Provision of Contract & instructions of Engineer In-Charge. The storage yard shall be used for storage of all Free Issue Line pipes, all other Free Issure Material (FIM) and all bought out items required for the project. Notes:- 1) Development of contractor storage yard adequate to store all the material required for Project, including all Free Issue Material (FIM) and bought out items. (Rate for the same shall be captured in this item) 2) Maintenance of contractor storage yard for the entire project period is included in the scope of contractor. No separate payment shall be applicable for the same.	1	LS	3,00,000.00	3,00,000.00
114	Hard Rock breaking by controlled blasting / chiseling method (rate will be applicable in case when prior approval for rock breaking is obtained by the contractor from GAIL / PMC)	50	M3	2,500.00	1,25,000.00
115	Clean Agent Fire Supression System as per Scope of Work	1	LS	1,25,000.00	1,25,000.00
116	Restoration of underground utilities (pipes & cables) during excavation at ONGC, GCS Jharia and Receiving Station (which is inside SV-28 Premises)	5	Nos	50,000.00	2,50,000.00
117	**Sub-Total Section A**				**5,82,21,800.00**
118	**SECTION-B [MECHANICAL (PIPING & TERMINAL WORKS)]**				
119	**PIPING WORKS AT DESPATCH AND RECEIVING STATIONS AND HOOK-UP WITH ONGC GCS, JHARIA** All works for installation of all piping at all elevations for Despatch and Receiving Stations as indicated in Drawings, Scope document, including supply of all consumables, Gaskets, nuts, bolts Studs, manpower, materials and equipment (except Company supplied free-issue materials), aligning, grouting, tie-in with pipeline and carrying out all mechanical works of underground and above ground piping including fabrication, welding, installation of all pipes, valves (manual & actuated), flanges, fittings, flow tees, pig signalers, insulating joints, corrosion monitoring probes /corrosion coupons, installation of instruments (pressure/temperature gauges, vents, drains-off, safety relief valves, electro hydraulic valves etc.) as indicated in P& IDs and GADs. 100% Radiography of weld joints of piping above 1.5 inch, Magnetic particle & Die penetration test for piping 1.5 inch & below, all NDT of welds, weld repairs/retesting, hydrostatic testing, cleaning/flushing, functional testing, de-pressurizing , Drying and dewatering, cutting and re-beveling (as required), hookup of all pipeline/utilities at the battery limit with the pipeline/utilities installed by others, obtaining all statutory clearances, approvals and permissions for the work (wherever required), excavation and filling in all types of soils including soft/hard rock for installation of piping/ pipe supports; corrosion coating and external painting (as required), finishing, clean-up and restoration of site, preparation of as- built drawings, documents and project records and performing all works as per drawings, specifications, other provisions of Contract document and instructions of Engineer-in-Charge. Civil/ structural works for piping supports will be paid separately as per unit rate provided elsewhere in the contract. Cost of Transportation of all materials (Including FIM mentioned above) for station works, from Contractor's own stock-yard to Work site, to be included in this SOR item. No separate payment will				
120	Fabrication and Erection of piping as per item no.110, (For Pipe Size 2 Inch and above, 100% Radiography) Note: 1. Rate for Handling, Fabrication and erection of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item. Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor.Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes 2" & above, shall also be part of this item. Contractor shall quote accordingly.	1500	INCH DIA METER	1,500.00	22,50,000.00
121	Fabrication & Erection of Piping as per item no. 110 (For Pipe Size Below 2 inch, Magnetic particle & Dye Penetration Test as per the requirement of specification) Note: 1. Rate for Handling and installation of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item.Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor. Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes below 2", shall also be part of this item. Contractor shall quote accordingly.	50	INCH DIA METER	3,000.00	1,50,000.00
122	Painting of Piping (Pipe, Fittings, Flanges, Valves, Equipments, etc.) as per item no. 110	1550	ICH METER	300.00	[illegible]000.00

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123	Hydrostatic testing, cleaning / flushing, functional testing, de-pressurizing, dewatering & drying of Piping as per item no. 110 (for all size upto 10").	1550	ICH METER	80.00	1,24,000.00
124	**INSTALLATION OF COMPANY SUPPLIED FIM (FML SKID AND PIG LAUNCHER/RECEIVER SYSTEM) AT DESPATCH TERMINAL AND RECEIVING TERMINAL**				
125	Installation of Company supplied Filtering, Metering and PRS Skid and Scrapper Launcher/ Receiver with accessories, at stations including all handling and installation works; as per drawings, specifications enclosed with the Contract and directions of Engineer-in-Charge. Cost of Transportation of above Free issue items, from Contractor's own stock-yard to Work site for station works, to be included in this SOR item. No separate payment will be applicable for the same.	1	LS	2,00,000.00	2,00,000.00
126	**CONTRACTOR SUPPLIED ITEMS:(Supply of Items as per attached PTS,GTS,Data Sheet,QAP and PMS)**				
127	**Station pipe -Seamless**				
128	1" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, PE, SEAMLESS	6	METER	1,500.00	9,000.00
129	2" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	90	METER	2,500.00	2,25,000.00
130	4" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	135	METER	3,500.00	4,72,500.00
131	8" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	50	METER	10,000.00	5,00,000.00
132	8" pipe, 6.4mm thk, ANSI B 36.10, API5L X 60, BE, HFERW/SEAMLESS	29	METER	11,000.00	3,19,000.00
133	10" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	12	METER	12,000.00	1,44,000.00
134	**Supply of Fitting & Flanges**				
135	1 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 350 LF2,CL1, BW, ANSI B16.25	4	Nos	600.00	2,400.00
136	2 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25.	3	Nos	1,500.00	4,500.00
137	1" WNRF FLANGES, 6C1, SCH. 160 / 600#, WNRF, B-16.5, ASTM A350 LF2, CL1, BW-ANSI B16.25 RF	4	Nos	1,000.00	4,000.00
138	8", WNRF FLANGES, 6C2, 6.4 thk/ 600#, WNRF, B-16.5, ASTM A694 F60 OR EQUIVALENT, CL1, BW-ANSI B16.25 RF.	5	Nos	12,000.00	60,000.00
139	1", BLIND FLANGES, 6C1, 600#, RF, B-16.5, ASTM A350 LF2, CL1, RF	4	Nos	600.00	2,400.00
140	3/4" EQUAL TEES, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25,	1	Nos	400.00	400.00
141	3/4", CUP THREADED 6C1, 6000#, ANSI B16-11, ASTM A 350 LF2, CL1 , BW - ANSI B16.25, ANSI B1.20.1,	3	Nos	300.00	900.00
142	**WELDOLETS (MAINLINE x BRANCH SIZE)**				
143	4" x 1", WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1 ,	2	Nos	4,000.00	8,000.00
144	8" x 2" WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 6.4 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 694 F60	13	Nos	6,000.00	78,000.00

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145	8" x 2", WELDOLETS (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	26	Nos	6,000.00	1,56,000.00
146	**GASKETS**				
147	GASKETS, 6C1, 600#, RF, ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 1"	12	Nos	150.00	1,800.00
148	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 2"	210	Nos	350.00	73,500.00
149	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 4"	30	Nos	600.00	18,000.00
150	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 8"	47	Nos	800.00	37,600.00
151	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 10"	2	Nos	1,500.00	3,000.00
152	**NIPPLES**				
153	NIPPLES, 6C1, Sch 160 /600#, ANSI B 36.10, ASTM A333 GR.6, BOTH ENDS PLAIN, SEAMLESS-LG=100mm, 3/4"	12	Nos	600.00	7,200.00
154	NIPPLES, 6C1, Sch 160 / 600#, ANSI B 36.11, ASTM A333 GR.7, ONE END THRD -MNPT SEAMLESS- LG=100mm, 3/4"	8	Nos	400.00	3,200.00
155	**INSULATING JOINT**				
156	INSULATING JOINT 6C,16.4 mm (X60) x 600# ,MANUFACTURER STANDARDS ,ASTM A694 F60 ,BW - ANSI B16-25, 8"	2	Nos	1,200.00	2,400.00
157	**Supply of following Valves as Per attached PTS,GTS,Data Sheet,QAP,PMS & MTO**				
158	1",BALL VALVE - FULL BORE (RF) (ABOVE GROUND),6C1	6	Nos	12,000.00	72,000.00
159	3/4", CHECK VALVE (RF) (AG), 6C1	2	Nos	6,000.00	12,000.00
160	3/4",NEEDLE VALVE, 6C1	5	Nos	6,000.00	30,000.00
161	**Note (Applicable for all items of SOR Item No 126 to 160):** **1. Before procurement of any of the above materials Contractor will take prior approval from GAIL / PMC.** **2. Payment will be made for actual quantity used.**				
162	**Sub-Total Section B**				**54,35,800.00**
163	**SECTION-C [CIVIL / STRUCTURAL & ARCHITECTURAL]**				
164	**CIVIL , STRUCTURAL & ARCHITECTURAL**				
165	**Earthwork excavation in soil**				
166	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	1770	cum	600.00	10,62,000.00

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167	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth beyond 1.5m and upto and inclusive of 3.0m including Removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	50	cum	800.00	40,000.00
168	**Earthwork excavation in soft rock**				
169	Earth work in EXCAVATION below ground level for all kinds of works in SOFT ROCK and HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as irected including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	130	cum	1,500.00	1,95,000.00
170	**Backfilling after execution of work**				
171	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps within a LEAD OF 100M,including re-excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/ mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	580	cum	350.00	2,03,000.00
172	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps beyond a LEAD OF 100M AND UPTO & INCLUSIVE OF 500M including re- excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	250	cum	600.00	1,50,000.00
173	**Transporting & Disposing the SURPLUS EARTH AND DEBRIS**				
174	Transporting and disposing the SURPLUS EARTH AND DEBRIS including shrubs and vegetations from construction areas to areas ANYWHERE OUTSIDE THE PLANT BOUNDARY, including re-excavating the deposited soil excavated earlier, loading, transportation, unloading, laying at all depths and heights, stacking,levelling and dressing both the area (viz. from where the earth is transported and where it is deposited) to required levels and slopes complete with all lifts as directed. For carting on the basis of truck measurements (volume of truck reduced by 30% for voids). DISPOSAL AREAS OUTSIDE PLANT BOUNDARY TO BE ARRANGED BY THE CONTRACTOR. Royalty as applicable for disposal outside plant limits to be borne by the Contractor	760	cum	450.00	3,42,000.00
175	**EARTH WORK FILLING BY EXCAVATION**				
176	EARTHWORK IN FILLING by excavating the earth from BORROW AREAS arranged by CONTRACTOR for all leads, transporting the earth from borrow area including cleaning & stripping the earth at borrow areas, breaking clods, loading, unloading and laying at all depths and heights in layers of thickness not exceeding 15 cms., watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% of the maximum laboratory dry density, ressing, trimming, levelling the top surface etc. in foundations, plinths, trenches etc. all complete.	4725	cum	800.00	37,80,000.00
177	**PLAIN & REINFORCED CEMENT CONCRETE: (REFER SPECIFICATION NO. (Z/02/0004)**				
178	**PLAIN CEMENT CONCRETE - PCC**				
179	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:4:8 (1 cement : 4 coarse sand (Zone-III) : 8 graded stone aggregate 40 mm nominal size)	105	cum	7,000.00	7,35,000.00
180	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:3:6 (1 cement : 3 coarse sand (Zone-III) : 6 graded stone aggregate 40 mm nominal size)	20	cum	8,000.00	1,60,000.00
181	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:2:4 (1 cement : 2 coarse sand (Zone-III) : 4 graded stone aggregate 20 mm nominal size)	120	cum	8,500.00	)00.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Shakti Engineers

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
182	Providing and laying PLAIN CEMENT CONCRETE for all depths below and upto plinth level in foundations, drains, fillings, non-suspended floors, pavements & ramps or any other works etc. including shuttering, tamping, ramming, vibrating, curing, etc. all as specified in any shape, position, thickness and finishing the top surface rough or smooth as specified and directed all complete for concrete grade M20 with 20mm and down size graded crushed stone aggregates/Gravels. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR	110	cum	8,500.00	9,35,000.00
183	**RCC WORKS**				
184	**SUBSTRUCTURE**				
185	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUBSTRUCTURE INCLUDING CENTERING & SHUTTERING) e.g. foundations, raft, beams, pile caps, Retaining walls, counterforts, buttresses, pedestals, pipe sleepers, columns, suspended floors, staircases, landings, steps, brackets etc., including equipment/ machine foundations & pedestals viz. compressors, generators, etc. (including single pour concreting as specified on the drawing), applying cement wash on concrete surface (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering, etc., wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT)for all depths below and upto plinth level in any shape, position and thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	615	cum	11,000.00	67,65,000.00
186	**SUPER STRUCTURE - EXCLUDING CONTROL ROOM BUILDING, GUARD ROOM & BOUNDARY WALL**				
187	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUPER STRUCTURE INCLUDING CENTERING & SHUTTERING in suspended floors, slabs, beams, columns, walls including counterforts, staircases, landings, steps, facias, fins, mouldings, gutters, shelves, window sills, canopies, lintels, girders, ducts, brackets, chajjas with drip moulds, pedestals, posts, struts, equipment/ machine foundations, ramps etc. (including single pour concreting as specified on the drawing), providing cement wash (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT) FOR ALL HEIGHTS UPTO & INCLUSIVE OF 20 m ABOVE PLINTH LEVEL in any shape, position, thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	70	cum	13,000.00	9,10,000.00
188	**CONTROL ROOM BUILDING (SUPERSTRUCTURE)**				
189	Construction of Control Room Building as per drawings and specification. Building work for all Superstructure works INCLUDING CENTERING & SHUTTERING , Reinforcement , masonry work, partition wall, Plastering & pointing, flooring, Floor finishes, Door & windows, rolling shutter, false ceiling, all finishes, painting, roof treatment complete in all respect etc.)	215	m2	3,000.00	6,45,000.00
190	**GUARD ROOM (SUPERSTRUCTURE)**				
191	Guard Room as per drawings and specification. Building work for all superstructure works including (Reinforcement, masonry work Plastering & pointing, flooring, Floor finishes, Door & windows, painting, roof treatment, all finishes, water supply and sanitary work complete in all respect etc.)	17	m2	3,500.00	59,500.00
192	**HYD Bars / MS Bars**				
193	Supplying and placing in position HIGH YIELD STRENGTH DEFORMED STEEL BARS REINFORCEMENT of Grade Fe500D TMT conforming to IS:1786, for RCC work (excluding control room building & Guard room & boundary wall superstructure) including transporting the Steel, straightening, cleaning, decoiling, cutting, bending to required shapes and lengths as per details, binding with 18 SWG black soft annealed binding wire at every intersection, supplying and placing with proper cover blocks, supports, chairs, overlaps, welding, spacers, fanhooks etc. for all heights and depths etc. all complete as directed. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE	70	MT	95,000.00	66,50,000.00
194	**STRUCTURAL STEEL WORKS (REFER TE SPECIFICATION)**				

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M/s. Shakti Engineers

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
195	Supplying, fabricating and erecting of structural steel and applying COATING (Post-erection/ Field) of approved quality and shade as per TE Specification or Job Specifications, wherever applicable) over the coat of shop primer already applied, including storage, surface preparation, degreasing, cleaning, drying, providing necessary arrangement for access, testing etc. including touching up of shop for steel structures (Including Wicket Gate, Main Gate and emergency gate, excluding ladders, spiral stairways & hand rails) at all location & levels, all complete as specified, for UNIT (INLAND) areas considering environment classification as INDUSTRIAL. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE. (Unit rate based on Structural steel weight)	25.5	MT	98,000.00	24,99,000.00
196	**MISCELLANEOUS STEEL WORKS (REFER TE - SPECIFICATIONS)**				
197	MS Chequered Plates				
198	Supplying, fabricating and erecting in position at all levels and locations bolted, screwed and/or welded M.S. CHEQUERED PLATES of any thickness in walkways, platforms, staircases or any other place as directed, etc. cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing, welding, preparation and submission of fabrication drawings and preparing the surfaces for painting and applying shop primer as per TE Specification after fabrication and return of unused/ scrap/ unserviceable chequered plates to Owner's store and material reconciliation etc. all complete as specified and directed	1.5	MT	1,45,000.00	2,17,500.00
199	Anchor Bolts				
200	Supplying, fabricating, fixing and keeping in position at all levels and locations THREADED ANCHOR BOLTS of all diameters and nomenclature including nuts, washers, anchor plates, pipe sleeves etc. in foundations, columns, pedestals, slabs, beams, walls etc. or any other place as directed including handling & transporting, straightening if required, turning from relevant size M.S. rounds to required diameter, threading, welding, providing necessary templates and auxiliary dummy structures, if any, necessary tying and welding with reinforcement, adjustment of shuttering & reinforcement/any other fixture, greasing exposed metal surfaces, covering bolts and packing the sleeves with jute cloth etc. all complete as specified and directed.(SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.6	MT	1,45,000.00	2,32,000.00
201	MS Metal Inserts				
202	Supplying, transporting, storing, fabricating and fixing in position M.S. METAL INSERT (with lugs) of any shape made out of flats, plates, rolled sections, pipes etc. providing necessary templates, staging, cutting,straightening, if required, bolting, welding as required and embedding in position on both Plain and Reinforced Cement concrete members inclusive of adjusting shuttering & reinforcement/ any other fixture, welding where necessary, tying and holding to correct level, line and position, any auxiliary dummy structures to support the heavy inserts, painting exposed surfaces with a coat of primer as per TE Specification all complete for all depths and heights as specified and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	0.55	MT	1,60,000.00	88,000.00
203	MS Grating				
204	Supplying, fabricating and erecting in position at all levels and locations ELECTROFORGED GALVANISED GRATING (purchased from approved manufacturer by the Contractor) conforming to TE STANDARD (in walkways, platforms, stair treads etc.) including cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing with manufacturer's supplied galvanised clamps, preparation and submission of fabrication drawings, all complete as specified and directed (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.85	MT	1,45,000.00	2,68,250.00
205	Hand Railing 1000mm				
206	Supplying, fabricating and fixing in position at all locations 1000mm high INCLINED HAND RAILING (for staircases) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade M.S. Tubes conforming to IS:1239 including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE SPEC. preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	3,000.00	30,000.00

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		Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
207	Supplying, fabricating and fixing in position at all locations 1000mm high HORIZONTAL HAND RAILING (for platforms, walkways, etc. or any other location as directed) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade MS Tubes conforming to IS:1239 and 100x5 MS Toe Plate confirming to IS:2062 (Grade A/B), including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE standard drawing & specification, preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	3,500.00	35,000.00
208	**CHAIN LINK FENCING**				
209	Supplying, fabricating and fixing G.I. chain link fencing with 3.5mm dia. wire, 50x50mm diamond mesh chain link fence fabric conforming to IS:2721 fixed to steel/RCC posts/struts above ground level, including supply of chain link fencing fabric in 1.9 metre wide rolls, stretcher bars, staples, etc. required for fixing the fencing, fixing of chain link fencing between straining posts, fixing of bottom of fencing in cement concrete 1:2:4 blocks and painting with synthetic enamel etc. , including supply and fixing line wires, complete as per drawings, specifications and directions of Engineer -in-Charge (All materials shall be supplied by Contractor). (The measurement of chain link fencing shall be on linear basis for 1.9 m wide fencing fabric)	10	M	3,500.00	35,000.00
210	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of the Engineer-in-Charge. Made of G.I. wire of dia. 4 mm, PVC coated to achieve outer dia not less than 5 mm in required colour and shade.	600	M2	2,500.00	15,00,000.00
211	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Star' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	200	M	2,000.00	4,00,000.00
212	**ROADS & FLEXIBLE PAVEMENT (UPTO WBM LAYER)**				
213	Preparation and consolidation of sub-grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth outside the property boundary in the un-disputed areas as directed by Engineer-In-Charge.	1500	M2	450.00	6,75,000.00
214	Supplying and laying of stone aggregate of 63mm down to 45mm size for WBM layer Base Course, tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 75mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding material of plasticity index upto 6%, including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts etc. complete as per drawings, specifications and directions of Engineer-in-Charge	4500	M2	700.00	31,50,000.00
215	**CONCRETE PAVEMENTS**				
216	Construction of dry lean cement concrete **(DLC) sub base** over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in- charge.	150	cum	11,000.00	16,50,000.00
217	Providing and laying Reinforced Cement Concrete with 20mm and down size graded crushed stone aggregates in flooring, pavements etc. including leaving pockets, if necessary, making recess/drains, laying in alternate panels, etc. for all depths including shuttering, tamping, curing, providing dowel bars with sleeves/tie bars etc where ever required at site. as specified in any shape, thickness, position and finishing the top surface smooth etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For RCC of M-30 grade concrete (all materials including cement but excluding cost of providing & fixing reinforcement and joint sealing shall be supplied by the contractor).	375	cum	22,000.00	82,50,000.00

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218	Providing 20mm wide Expansion Joints in pavement slabs as per general technical specification including cleaning the joints of all loose material, filling with 20mm thick impregnated fibre boards for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved Joint Sealing Compound as per IS:1834 Type-B etc. all complete as per drawings, specifications and directions of Engineer-in-Charge	720	M	180.00	1,29,600.00
219	Sealing joint around pedestal and column etc. 20mm wide x 150 mm deep including filling with 20mm thick impregnated fire board for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved joint sealing compound as per IS:1834 Type-B.	300	M	220.00	66,000.00
220	**RCC PIPE CULVERTS & ELECTRICAL ROAD CROSSINGS ETC. (as per drawing & TE specification)**				
221	Supplying and laying in position RCC pipes with collars conforming to IS:458 for pipe culverts, cable crossings etc. including cutting the pipe if necessary, lowering, laying in position to proper levels, slopes etc. caulking the joints with spun yarn soaked in neat cement slurry and finishing with cement mortar 1:2 (1 cement : 2 sand) curing etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For following Class and Internal PIPE DIA (MM). (Dia (internal) - 500 mm, Pipe Class - NP3)	20	M	3,000.00	60,000.00
222	**U/G AND A/G G.I. PIPELINE SYSTEM - WATER SERVICES tender specification**				
223	Supplying and laying mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ ASTM A105 (Galvanized) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, earthwork in excavation for trenches, valve pits, etc. in all types of soil excluding soft and hard rock including laying of pipes in trenches, joining the pipes and fittings with threaded connections, hydrostatic testing of the piping, backfilling the trenches with selected/approved earth fill material, cutting of roads wherever required, making good the road surface after laying, disposal of surplus earth within a lead of 500 m, etc. including supply of necessary fittings etc. complete as per specifications, drawings and directions of Engineer-in-Charge. For following Nom.Size in mm. (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	600.00	6,000.00
224	Supplying and laying above ground mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ASTM A 105 (GALVANISED) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, including laying of pipes on sleeper, walls, including erecting piping on columns, etc. for pump station, overhead tanks, etc. including joining the pipes and fittings with threaded connections, hydrostatic testing of the piping including supply of necessary fittings etc & pipe supports. complete as per specifications, drawings and instructions of Cement Supplied by contractor (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	400.00	4,000.00
225	**MISC. CIVIL AND STRUCTURAL WORKS FOR U/G PIPING AND OTHER CIVIL WORKS**				
226	Providing and laying brick masonry with locally available bricks of specified class (Brick of class lower than specified shall not be accepted) in cement mortar 1:4 (1 cement : 4 Coarse sand) in one or more brick thickness and in any shape in foundation and plinth for valve pits, drains, circular/square manholes, wing walls, etc. including providing recesses, openings, etc. including curing, finishing the joints flush below ground level and raking out joints in plinth with all labour and material, etc. complete as per drawings, specifications and direction of Engineering-Charge. For following Brick Class.	280	cum	7,500.00	21,00,000.00
227	Providing 13mm thick average cement plaster in cement mortar 1:3 (1 cement: 3 sand) on brick walls/stone masonry/pitching or on concrete surfaces for manholes, valves pits, culverts, wing walls, etc. including cleaning and preparation of the surface, scaffolding, curing etc. for all depths and heights complete as per drawings specifications and direction of Engineer-in-Charge. All materials including cement supplied by the Contractor	750	M2	600.00	4,50,000.00
228	**UNDERGROUND SEWER SYSTEM - RCC PIPES**				
229	Supplying and laying underground R.C.C. pipes sewers with socket and spigot ends conforming to IS:458 of approved make, to proper grade and alignment, including earthwork in excavation in all types of soil except soft and hard rock for pipe trenches, etc. including dewatering, shoring and shuttering if necessary, dressing of sides, leveling, grading and ramming of bottoms, cutting the R.C.C. pipes to required lengths, lowering the pipes, jointing, including connecting the pipes to manholes and grouting the pipe body with manhole wall using cement mortar 1:2 (1 cement : 2 sand), testing, draining of water and cleaning of pipe after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness , watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, including cutting of roads wherever required and making good the same, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit etc. complete for all depths as per drawings, specifications and instructions of Engineer-in-Charge.(All material shall be supplied by contractor) For following Pipe size (mm) and Class(The following pipe sizes are all internal diameter of the pipes)				
230	(Dia (Internal) - 100 mm, Piping Material Class - NP2)	15	M	600.00	9,000.00
231	(Dia (Internal) - 150 mm, Piping Material Class - NP1)	15	M	800.00	)00.00

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232	(Dia (Internal) - 450 mm, Piping Material Class - NP2)	70	M	2,500.00	1,75,000.00
233	**UNDERGROUND SEWER SYSTEM-HDPE PIPES**				
234	UNDERGROUND SEWER SYSTEM-HDPE PIPES :- Supplying and laying HDPE pipes conforming to IS:4984 of approved make to proper grade and alignment, including earthwork in excavation for trenches etc. in all types of soil except soft and hard rock including dewatering till completion of subsequent works, shoring and strutting, if necessary, dressing the sides, leveling, grading and ramming the bottom, jointing the pipes using hot plates as per manufacturer's recommendation, lowering, providing and laying 1:5:10 (1 cement : 5 sand : 10 aggregate) plain cement concrete of minimum 100mm thickness on bottom and side of pipe as directed, connecting the pipes to manholes and grouting the pipes to manhole/valve chamber walls, including supplying and fixing the specials and fittings, such as bends, reducers, tees, elbows, caps etc. conforming to IS:8008 or fabricated from pipes as per specification, supplying and fixing of flanges, fixing of online valves, including fixing of bolts, nuts and gaskets etc. as per specifications, testing, draining of water and cleaning of pipes after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness, watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit, cutting of road wherever required, making good the same etc. complete for all depths as per drawings, specification and instruction of Engineer-in- Charge. For the following nominal diameter (mm) Pressure Rating(Kg/Cm2). (Dia (Internal) - 80 mm, Pressure Rating - 2.5 Kg/sqcm)	50	M	600.00	30,000.00
235	**PLUMBING AND BUILDING DRAINAGE**				
236	Supplying and fixing approved quality Cast Iron soil/waste pipe conforming to IS:1729 below ground with necessary specials, bends such as Y-junction, T- junction (both single and double) including plugs, shoes, cowls, jointing with lead caulked joints and testing, cutting in floors, earth work in excavation, encasing the pipe in 50mm THK, PCC M20, backfilling and removal of surplus earth upto a lead of 50M etc. complete as per drawings, specifications and directions of Engineer-in-Complete				
237	100mm dia (All materials including cement supplied by contractor)	10	M	450.00	4,500.00
238	80mm dia (All materials including cement supplied by contractor)	10	M	15,000.00	1,50,000.00
239	**Supplying and fixing gun metal globe valve conforming to IS:778, complete as per specifications and directions of Engineer-in-Charge.**				
240	Dia - 50 mm	2	Nos	15,000.00	30,000.00
241	**Constructing of brick masonry valve chamber in 1:4 Cement mortar(1 cement: 4 sand) with CI frame & cover fixed on M-20 grade cement concrete , necessary excavation, M-20 grade foundation concrete, 13mm thick 1:3 cement plaster on inside & all exposed surfaces, backfilling, removal of surplus earth for all leads within the complex limit etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge. For following Valve size and Brick Class (All materials including Cement supplied by contractor)**				
242	Dia - 50 mm, Brick Class - 5)	2	EACH	15,000.00	30,000.00
243	Providing and fixing approved stone ware 100mmx100mm dia. gully trap as per tender specification, including grating with CI frame and cover 300mmx300mm including brick masonry (brick class shall be as mentioned below) chamber in 1:4 cement mortar(1 cement: 4 sand) on M-20 grade cement concrete foundation, plastered inside and outside surfaces with 1:3 cement mortar (1 cement: 3 sand) with 13mm average thickness including providing and fixing light duty CI frame and cover, painting CI frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat, earth work in excavation, backfilling, removal of surplus earth, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry etc. all complete as per drawings, specifications and directions of Engineer-in-Charge				
244	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	25,000.00	50,000.00
245	Construction as per(Design basis & general technical specification) of brick masonry (brick class shall be as mentioned below) inspection chambers/manholes of 750mmx750mm internal size 1000mm deep(Max.) in cement mortar 1:4 (1 cement: 4 sand) with CI frame and cover 500mm clear dia, (circular Medium duty of grade MD-10) conforming to IS:1726 fixed on RCC slab of M-30				
246	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	20,000.00	40,000.00
247	Construction, supplying, installation, testing and commissioning of septic tank as per standards and IS:2470 Part-I , with all necessary accessories like inlet, outlet vent pipes, manhole covers, rungs etc. including earthwork in excavation in all type of soil except soft and hard rock, backfilling and disposal of surplus earth for all leads etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Shakti Engineers

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
248	All material including cement supplied by contractor for (Users - 10 NOS)	1	Nos	60,000.00	60,000.00
249	**MISCELLANEOUS ITEMS**				
250	Supplying and fixing in position entrance gate in complex boundary wall fencing manufactured out of steel frame work and square MS bars of 20 mm at 100 c/c and horizontal name plate band at lock rail level suitably hinged with box type steel post embedded in cement concrete i.e. providing the tension bar for smooth operation and locking arrangement etc. complete as per tender specification, including painting with two coats of anti-corrosive paint and two coats of approved aluminium/synthetic enamel paint etc. complete as per drawings, specifications and directions of Engineer-in-Charge.				
251	4.0M clear opening width of gate in two panels.	3	Nos	1,00,000.00	3,00,000.00
252	Supplying & Laying interlocking Paver Blocks for roads, footpaths and any other place etc. including providing 50 mm thick sand filling below Paver Blocks including compaction of sand layer, filling the joints by dry sand, providing precast kerb stone of PCC M-20 at edges, including preparation of compacted sub-grade etc. all complete as per drawing, standard and directions of Engineer-in-Charge. (All material including cement supplied by contractor, paver blocks shall confirm to IS: 15658. cloour and shape of paver block shall be as per owner requirements for following thickness of paver blocks				
253	**(Thickness - 60 mm)**	285	M3	2,500.00	7,12,500.00
254	Supply and installation on terrace, high density polyethylene drinking water circular tank as per IS:12701 and ISI marked including supply and installation of all fittings, cover with suitable locking arrangement, float valve, making necessary holes for inlet, outlet and overflow connection and vent pipe etc. and the base supports for tank including supply of all necessary material all complete as per specifications and directions of Engineer-in-charge. (Sintex or equivalent having valid ISI license) for following capacities.				
255	**capacity - 500 litre**	2	Nos	15,000.00	30,000.00
256	Supplying, installation, testing and commissioning of Upflow Anaerobic Filter with bleaching tank as per TE Std. Drawing with all necessary accessories like, Upstream inlet CI piping from septic tank, Downstream outlet RCC NP2 class piping up to surface storm water drains, CI pipes for filter chamber, CI valve, RCC pre-cast pit covers, steps, perforated pre-cast slabs etc., inlet chamber, Filter chamber, deluding chamber including earthwork in excavation in all type of soil including soft rock, backfilling with murrum or approved soil arranged by the contractor, disposal of surplus earth etc. complete as per drawings, specification and direction of Engineering-Charge (All materials including cement shall be supplied by the contractor, Brick Class lower than 5.0 shall not be used).	1	Nos	15,000.00	15,000.00
257	**DEMOLISHING AND DISMANTLING**				
258	**Brickwork**				
259	**Demolishing BRICKWORK** (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	2,000.00	20,000.00
260	**Demolishing BRICKWORK** (taking all necessary safety precautions) for all heights **above plinth level** including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	2,000.00	20,000.00
261	**RCC**				
262	**Demolishing RCC WORK** (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	3,000.00	30,000.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Shakti Engineers

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
263	**Demolishing RCC WORK** (taking all necessary safety precautions) for all heights **above plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	3,500.00	35,000.00
264	**PCC**				
265	**Demolishing PLAIN CEMENT CONCRETE** work (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc. disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation and backfilling shall be paid separately under relevant items)	10	cum	1,500.00	15,000.00
266	**MISCELLANEOUS ITEMS (REFER TE SPECIFICATION)**				
267	**Sand Filling**				
268	Supplying and filling approved SAND of specified quality under floors, in foundations, plinths, tank foundations etc. for all depths and heights including cost of sand,royalties,transportation to site for all leads and lifts, including loading, unloading, spreading in layers of loose thickness not exceeding 150 mm,watering,ramming,compacting with mechanical compactors and/or other equipment to the specified levels to achieve 85% relative density as per IS:2720 Part XIV,including preparation of subgrade to the required slope, providing testing apparatus and testing the degree of consolidation all complete as per drawings, specifications and direction of Engineer-in-charge. The rates shall be inclusive of the cost of all labour,material,equipments etc. all complete .	100	cum	3,500.00	3,50,000.00
269	**SAND GRAVEL MIX**				
270	Supplying and filling sand gravel mix (1:1) with approved aggregate below road, RCC pavement, manholes, pits, foundations, bedding of UG piping etc. in layers of 150 mm loose thickness (maximum) including watering, ramming, rolling, compacting to achieve 85% relative density as per IS 2720 Part-XIV, quarrying, royalties, transportation, handling, etc. all complete as per drawings, specifications and directions of Engineer-in- Charge. (The rate shall be inclusive of the cost of all labour, material, equipment etc. all complete)	105	cum	5,500.00	5,77,500.00
271	**GROUTING WITH NON-SHRINKABLE COMPOUND**				
272	Providing and laying manually or by pumping at all positions a ready mix non-shrink cementitious grout of compressive strength specified below for specified works e.g. pipe support, base grouting of rotating equipment and other installation complete in all respects as per scope of work, detailed construction drawings , technical specifications and directions of the Engineer-In-Charge.				
273	Having compressive strength of 30 N/mm2 , Per bag of 25 Kg	100	Bags	2,500.00	2,50,000.00
274	Having compressive strength 45 N/mm2 , Per bag of 25 Kg	20	Bags	3,500.00	70,000.00
275	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains, SS trench of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.	7.5	m2	2,500.00	18,750.00
276	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, leve and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	13.5	cum	6,000.00	81,000.00
277	Providing and fixing factory made precast RCC **perforated drain covers**, having concrete of strength not less than M-25, of size 1000x450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos. cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of the Engineer-In-Charge.	515	EACH	1,500.00	7,72,500.00
278	**Borewell and recharge well**				

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279	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job all complete as per drawing, direction of Engineer -in-charge, in all types of soil :	130	M	1,000.00	1,30,000.00
280	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge.	130	M	600.00	78,000.00
281	Providing and fixing Bail plug/ Bottom plug of required diameter to the bottom of pipe assembly of tubewell as per IS:2800 (Part-I). :150mm dia	3	EACH	800.00	2,400.00
282	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	4,000.00	20,000.00
283	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	4,500.00	22,500.00
284	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	5,000.00	25,000.00
285	Gravel packing in tubewell construction in accordance with IS:4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of the Engineer-In-Charge.	3	cum	4,500.00	13,500.00
286	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS:4270, of reputed & approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size dia having minimum wall thickness 5.00 mm	5	M	2,500.00	12,500.00
287	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	60	M	3,000.00	1,80,000.00
288	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/ 3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS:8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	25	M	3,200.00	80,000.00
289	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of 150 mm diameter	1	Nos	5,000.00	5,000.00
290	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS:2800 (Part-I), including necessary bolts & nuts of required size complete 150 mm diameter.	1	Nos	2,100.00	2,100.00
291	Supply, Installation and commissioning of 1.5HP Borwell Submersible Pump	1	EACH	5,000.00	5,000.00
292	Supply and Installation of 3Cx10Sqmm Copper Flat Cable	200	M	120.00	24,000.00
293	**LANDSCAPING**				

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294	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment).	335	cum	1,200.00	4,02,000.00
295	Fine dressing of the ground.	1105	M2	150.00	1,65,750.00
296	Providing & laying Selection no. 1 grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden and than rolling the surface with light roller make the surface smoothen and light watering the same maintenance for 30 days or more till the grass establish properly,as per direction of officer in charge	1105	M2	150.00	1,65,750.00
297	Conducting topographical ground/land survey in the specified area as shown in the tender drawings by conventional/GPS or any other standard method, covering details of physical features like Rivers, Nallahs, Lakes, Ponds, wells, pits, Forest, Trees, Roads, culverts, transmission lines, telegraph/ telephone and electric poles, underground or any other services, cross drainage works including cross sectional details of nallah etc. including establishing high flood level with source of information, identification of any monument, historical structure, wild life sanctuary in the vicinity, storm water disposal point with levels, cross-section details of nallah, recording spot levels, top level of nearest state highway or National Highway, including providing in tabulation girth wise no. of trees etc as specified, plotting and developing topographical contour maps, showing true north including establishing survey reference stations, key plan etc. including all equipment's, instruments, personnel's, clearing of bushes as per requirement for intervisibility to carry out survey work etc. , complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of drawings/map and supply of electronic files. Note: Survey work shall be carried out by survey agency approved by Contractor and sample spot witness of levels cordinates by PMC, and shall be submitted to PMC/Owner for review.Survey drawing will be provided in A0 size with clear visibility of all the spots/levels/ contoure and Bench marks. Permanaet bench mark will be stabished at site in a 450x450 mm size 600mm high bick masonry piller.	4220	M2	150.00	6,33,000.00
298	**GEO TECHNICAL INVESTIGATION (Z/02/0022)**				
299	Conducting soil investigation with boring including all field tests and laboratory tests, mobilization and demobilization of equipments & personnel etc. for soil investigation for each borehole location. complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of Reports & recommendations and supply of electronic files.	5	Nos	50,000.00	2,50,000.00
300	**ANTI-TERMITE TREATMENT**				
301	Supplying chemical emulsion in sealed containers including delivery as specified in the Technical Specifications.				
302	Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	200	LITRE	600.00	1,20,000.00
303	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
304	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc. as per Techinal specifications and direction of engineering in charge: With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	80	METRE	175.00	14,000.00
305	Treatment of soil under floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the floor:				
306	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	250	SQM	1,200.00	3,00,000.00
307	Supply and installation 60mm dia GI pipe for column support of gate	15	M	700.00	10,500.00
308	Supply and installation 100mm dia MS pipe	15	M	800.00	12,000.00
309	Supply and installation 50mm dia MS pipe	15	M	650.00	9,750.00
310	Supply and installation of U-PVC pipes (working pressure 4 kg / cm²) Single socketed pipe 75 mm dia for weep holes	200	M	400.00	80,000.00
311	**Sub-Total Section C**				**350.00**

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312	**SECTION-D [CATHODIC PROTECTION WORKS]**				
313	**CATHODIC PROTECTION SYSTEM**				
314	**Cathodic Protection system**				
315	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning & Monitoring of the temporary cathodic protection [TCP] system using galvanic anodes to protect the external surface of the pipeline against soil-side corrosion for minimum 2 year or till commissioning of permanent CP system whichever is later . All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard drawings and vendor list as attached with this tender and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	35,00,000.00	35,00,000.00
316	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning of permanent cathodic protection system for 40 years. The scope of work also includes post commssoning surveys and repair of coating/ rectification of cathodic protection system based on the post commissioning surveys. In additon to the same, AC Interference study on the pipelines to be performed and mitigation measures takes to the satisfaction of Owner/ CONSULTANT. All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard and vendor list attached and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	35,00,000.00	35,00,000.00
317	**Sub-Total Section D**				70,00,000.00
318	**SECTION-E [ELECTRICAL WORKS]**				
319	**ELECTRICAL**				
320	**SWITCH BOARDS / UPS SYSTEM/ PANEL**				
321	Supply , Installation, testing and commissioning of LT Switch-boards, AC UPS system with UPS Distribution board & Ni-Cd Battery banks , distribution boards, cubicles with electrical equipment, misc. electrical panels etc., including transportation from store/yard to site at the place of installation, unpacking, assembly, including mounting and wiring of loose parts supplied by equipment vendor, interconnection of shipping sections and requisite inter-panel wiring between shipping sections, including supply of all wiring materials, installation on foundations or fixing to wall or steel structures, aligning, levelling, grouting, including all labour and materials, as per approved drawings, specifications of this tender and directions of Engineer-in-Charge.				
322	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted MEDB	1	Nos	3,25,000.00	3,25,000.00
323	Supply , erection , termination , earthing and commissioning of wall mounted OLDB as per single line diagram of DT stations	1	Nos	1,50,000.00	1,50,000.00
324	Supply , erection , termination , earthing and commissioning of wall mounted ILDB as per Single line diagram of DT stations	1	Nos	2,00,000.00	2,00,000.00
325	Supply , erection , termination, earthing and commissioning of wall mounted SSDB as per Single line diagram of DT stations	1	Nos	1,35,000.00	1,35,000.00
326	Supply , erection , termination , earthing and commissioning of wall mounted AC DB as per Single line diagram of DT stations	1	Nos	2,20,000.00	2,20,000.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
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327	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 6 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of DT stations	1	SET	2,00,000.00	2,00,000.00
328	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for DT stations.	1	SET	60,000.00	60,000.00
329	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 1 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of RT stations	1	SET	2,25,000.00	2,25,000.00
330	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for RT stations.	1	SET	2,20,000.00	2,20,000.00
331	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted Emergency DB	1	Nos	2,00,000.00	2,00,000.00
332	Supply , erection , termination , earthing and commissioning of 32A, 4P, 25kA Auto Change-Over switch as per Single line diagram of DT station-JHARIA	1	Nos	1,50,000.00	1,50,000.00
333	**POWER AND CONTROL CABLE**				
334	Supply , laying , termination , erection and testing of 1.1 KV Power and control FRLS PVC Outersheath, XLPE insulated, armored Cables . Outdoor cable will be laid in buried cable trench and in Indoor cable will be laid in Cable trench by provision of Cable tray and supports inside the trench as per PTS - Electrical package P.017110 G 11077 E002				
335	3.5C x 95 sqmm AL FRLS XLPE	300	M	700.00	2,10,000.00
336	3.5C x 70 sqmm AL FRLS XLPE	300	M	750.00	2,25,000.00
337	3.5C x 50 sqmm AL FRLS XLPE	50	M	650.00	32,500.00
338	3.5C x 25 sqmm AL FRLS XLPE	100	M	600.00	60,000.00
339	4C x 16 sqmm CU FRLS XLPE	100	M	450.00	45,000.00
340	3C x 2.5 sqmm CU FRLS XLPE	170	M	350.00	59,500.00
341	3C x 6 sqmm CU FRLS XLPE	250	M	300.00	75,000.00
342	4C x 6 sqmm CU FRLS XLPE	350	M	325.00	1,13,750.00
343	2C x 6 sq.mm CU FRLS XLPE	100	M	300.00	30,000.00
344	2.5 sqmm Cu. Wire	1800	M	150.00	2,70,000.00
345	6 sqmm Cu. Wire	600	M	125.00	75,000.00
346	**Earthing & Lightning**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Shakti Engineers

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
347	Supply , Installation , testing and comissioning of GI Earth electrodes & Cu plate type earth pit complete with earth pit as per IS 3043, PTS-Electrical package and all necessary material including exacavation of earth pit , filling with charcol and salt , back filling, brick work , connections including all labour and materials as approved drawing and specification of this tender and direction of Engineer-In charge.				
348	GI Earth Electrodes				
349	65mm dia x 3000 mm L GI pipe electrode type Earth pit	17	Nos	25,000.00	4,25,000.00
350	**Cu plate Earth Electrode**				
351	600x600x3mm Cu plate type Earth pit	8	Nos	22,000.00	1,76,000.00
352	**Earth strip and wire**				
353	50x 6 mm GI Flat strip	850	M	325.00	2,76,250.00
354	25 x 6 mm Cu Flat strip	50	M	275.00	13,750.00
355	2.5 Sqmm Cu wire	250	M	175.00	43,750.00
356	25 x 6 mm GI Flat strip	200	M	235.00	47,000.00
357	10 Sq.mm earthing cable	250	M	675.00	1,68,750.00
358	GI Earth Bus 50x 6 Sq.mm with all installation assesories	3	Nos	3,000.00	9,000.00
359	Cu. Earth Bus 50x 6 Sq.mm with all installation assesories (in control room)	4	Nos	3,500.00	14,000.00
360	25x3 mm GI Flat for Lightning as well as down conductors for DT station as per overall earthing layout and GGNG-E-20713-3007	80	M	3,000.00	2,40,000.00
361	Other lightning assesories like 20mm dia copper rod, hollosphere ,200x200x6mm ms plate ,anchor/fastner ,test links for DT station as per overall earthing layout and GGNG-E-20713-3007	1	LOT	65,000.00	65,000.00
362	**OUTDOOR Lighting**				
363	Supply , erection , Testing & commissioning of Outdoor area lighting system including with supply of flameproof / weather proof light fixture , pole , junction box and earthing including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender & Overall outdoor lighting layout of DT & RT station and directions of Engineer- In charge.				
364	100W FLP LED Fixture & FLP Junction box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	4	Nos	35,000.00	1,40,000.00
365	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	2	Nos	30,000.00	60,000.00
366	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in RT Stations.	7	Nos	25,000.00	1,75,000.00
367	1x160W FLOOD LED Fixture with weather proof junction box & 9 mtr high pole with all assesories for open area	6	Nos	20,000.00	)00.00

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368	1x70 W Solar type Street LED Fixture with weather proof junction box, VRLA Battery (72 hrs backup time) & 9 mtr high pole for street lighting	4	Nos	1,25,000.00	5,00,000.00
369	1x27 W Post Top Lantran LED Fixture for Gate with weather proof junction box for Gate lamp	2	Nos	25,000.00	50,000.00
370	1x36 W LED industrial fixture suitable to building parapet /wall with all assesories like weather proof junction box/clamp/reducer/	2	Nos	25,000.00	50,000.00
371	**INDOOR Lighting**				
372	Supply, erection, Testing & commissioning of Indoor building area lighting system including with supply of light fixture, point wiring including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender and directions of Engineer- In charge.				
373	2x20 W LED recessed decorative fixture for control room	5	Nos	15,000.00	75,000.00
374	2x20W LED Industrial Fixture for Electrical room	2	Nos	15,000.00	30,000.00
375	1x40W LED Flameproof Fixture for Battery room	1	Nos	8,000.00	8,000.00
376	2x18W LED Industrial Fixture for Varanda/Toilet/ water cooler area/ Guard room	6	Nos	8,000.00	48,000.00
377	1x36W LED Industrial Fixture	4	Nos	6,000.00	24,000.00
378	2x20 W LED recessed decorative fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) control room.	2	Nos	80000	1,60,000.00
379	2x20W LED Industrial Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Electrical room	2	Nos	60,000.00	1,20,000.00
380	1x40W LED Flameproof Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Battery room	1	Nos	65,000.00	65,000.00
381	**Switch socket**				
382	Supply and Installation of single/ three phase Switch socket as per Indoor Illumination layout for DT & RT and PTS-Electrical Package and directions of Engineer-In Charge				
383	5/15A surface type switch socket (1 Ph)	7	Nos	25,000.00	1,75,000.00
384	5A flush type switch socket (1 Ph)	4	Nos	3,000.00	12,000.00
385	16A Switch socket (I Ph)	3	Nos	3,500.00	10,500.00
386	20A Switch socket for AC (1 Ph)	4	Nos	8,000.00	32,000.00
387	Flame proof Junction box for Exhaust fan in Battery room	2	Nos	25,000.00	50,000.00
388	32A Switch socket for welding receptacles (3 Ph)	1	Nos	12,000.00	)00.00

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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389	Modular switch board	12	Nos	8,000.00	96,000.00
390	**FANS and Exhaust FAN**				
391	Supply ,Installation and testing of Ceiling Fan and Exhaust fan with louvers including all labours and materials as per Indoor Illumination layout for DT and PTS-Electrical Package and directions of Engineer-In Charge				
392	Ceiling Fan 230V AC 1200 mm sweep	3	Nos	7,000.00	21,000.00
393	450 mm FLP Exhaust Fan for Battery room	2	Nos	12,000.00	24,000.00
394	200 mm Exhaust Fan for Toilet	1	Nos	8,000.00	8,000.00
395	300 mm Exhaust Fan for Electrical room/ CO2 room	3	Nos	20,000.00	60,000.00
396	**Air conditioning unit**				
397	Supply ,Installation and testing of Five star 1.5 Ton Split AC with outdoor compressor unit including all labours and materials as per Typical Indoor Illumination layout for DT and directions of Engineer-In Charge				
398	Split Air condition Five star 1.5 Ton	4	Nos	80,000.00	3,20,000.00
399	**Hardware and other Accessories**				
400	Supply and Installation of Hardware and other accessories including all labours and materials as per Tender specification PTS-Electrical Package P.017110 G 11077 E002 and directions of Engineer-In Charge				
401	Rubber mat	15	M	800.00	12,000.00
402	Rubber hand gloves	1	PAIR	300.00	300.00
403	Warning Marker	1	Nos	1,200.00	1,200.00
404	PVC Conduit with bend ,tee and other required assesories	1	LOT	1,500.00	1,500.00
405	CAUTION Board & Sock treatment chart	1	Nos	25,000.00	25,000.00
406	Cable route marker as per Standard drawing TE-IN-STD-G-0327	1	LS	50,000.00	50,000.00
407	Fire extingusher and SAND Bucket with Stand	1	SET	25,000.00	25,000.00
408	Ladder type Cable tray - hot dip Galvanized Prefabricated 450 mm wide	55	MTR.	1,500.00	82,500.00
409	Perforated type Cable tray hot dip Galvanized Prefabricated 450 mm wide	35	MTR.	1,700.00	59,500.00

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410	Cable Glands				
411	Cable Glands : Flame proof IIA/IIB double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
412	Cables with upto OD 20 mm & above OD 20 mm as per Single line diagram of DT & RT station	1	LOT	20,000.00	20,000.00
413	Cable Glands : Weather proof double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
414	Cables with upto OD 20 mm to 40 mm as per Single line diagram of DT & RT station	1	LOT	25,000.00	25,000.00
415	**Sub-Total Section E**				**75,06,750.00**
416	**SECTION-F [INSTRUMENTATION WORKS]**				
417	**INSTRUMENTATION**				
418	**SUPPLY**				
419	Supply of Pressure Transmitter along with 2 valve manifolds with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	25,000.00	1,25,000.00
420	Supply of Pressure gauge including high range along with 2 valve manifolds with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	18	Nos	30,000.00	5,40,000.00
421	Supply of Pressure gauge including Low Range along with 2 valve manifolds, gauge saver with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	3	Nos	28,000.00	84,000.00
422	Supply of temperature element (RTD) along with flanged thermowell mounted for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	15,000.00	75,000.00
423	Supply of Temperature Transmitter with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	7	Nos	20,000.00	1,40,000.00
424	Supply of skin type temperature element (RTD) for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I003), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	2	Nos	75,000.00	1,50,000.00

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425	Supply of Local control panel with all accessories as per Data sheet (P.017110 G 11087 I011), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, SAT of local control panel,supports/ frame fabrication, earthing and screwing plug for unused entries, painting and integration with RTU. Termination of all Other panel SCADA hard wired signal including RS-485 signals through LCP for RTU/SCADA by Bidder. 1. Digital Barriers 2. Analog Barries 3. Relays 4. three poisition selector switch 5. LED indication lamps 6. Push buttons 7. terminal blocks 8. internal wiring 9. MCBs 10. Door switches 11. cooling Fan 12. LED lights	2	Nos	1,25,000.00	2,50,000.00
426	Supply of Ex-proof junction box with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, iincluding Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.	4	Nos	50,000.00	2,00,000.00
427	Supply of Corrosion Monitoring system with corrosion coupon, Corrosion probe, transmitter and digital indicator (mounted in LCP) as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
428	Corrosion coupon along with accessories.	2	Nos	50,000.00	1,00,000.00
429	Corrosion probe along with transmitter, digital indicator, barriers and accessories.	2	Nos	75,000.00	1,50,000.00
430	Supply of Conventional Type Microprocessor based fire detection system along with smoke detector, heat detector, cabinet, manual call point, Independent 24 Hrs battery backup with 15 min in alarm state, repeater panel and Electrical Operated Siren, exit signs and cables fromsensor ,MCP, siren, hooter to controller as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
431	Controller along with cabinet along with cabling	1	Nos	75,000.00	75,000.00
432	Multisensor (smoke & heat)	10	Nos	60,000.00	6,00,000.00
433	WP IP 65 Manual call points	6	Nos	15,000.00	90,000.00
434	Ex Proof and WP IP 65 Manual call point	1	Nos	25,000.00	25,000.00
435	WP Hooter & Flasher	1	Nos	25,000.00	25,000.00
436	Repeater panel	1	Nos	60,000.00	60,000.00
437	Exist sign	6	Nos	15,000.00	90,000.00

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438	Electrical siren Exd	1	Nos	50,000.00	50,000.00
439	24 Hrs battery backup	1	Nos	75,000.00	75,000.00
440	Supply of Conventional type gas detection system along with controller, ex proof point gas detectors, beacon hooter, flasher, , cabinet, portable gas detector, calibration kit, alignment kit as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
441	Controller with cabinet	1	Nos	1,10,000.00	1,10,000.00
442	Point gas detectors	12	Nos	85,000.00	10,20,000.00
443	Panel Mounted hooter	2	Nos	35,000.00	70,000.00
444	Dual tone Hooter & Beacon Ex"d" with reset push button	2	Nos	45,000.00	90,000.00
445	Portable gas detecotrs	1	Nos	1,25,000.00	1,25,000.00
446	Calibration kit	1	Nos	60,000.00	60,000.00
447	Ex d Junction Box	2	Nos	35,000.00	70,000.00
448	Supply of Universal type Hand Held Configurators for transmitters with carrying case, rechargeable batteries (one working and one standby), and battery charger as per Data sheet,PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work	1	Nos	75,000.00	75,000.00
449	Supply of Instrumentation signal cable, control cable, communication cable/LAN cable, Power cables along with all sizes cable glands (WP & Exd), PVC hood, lug, ferrule, etc including Cable laying (buried as well as tray) along with termination, glanding, meggering and loop checking including supply of ferrule, lugs, cable tie, cable clamp, cable marker etc. as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.				
450	1Px 1.5mm2	500	MTRS.	250.00	1,25,000.00
451	12Px 0.5mm2	900	MTRS.	175.00	1,57,500.00
452	1Qx1.5mm2	30	MTRS.	600.00	18,000.00
453	12Tx1.5mm2	200	MTRS.	550.00	1,10,000.00
454	1Tx1.5mm2	180	MTRS.	400.00	72,000.00
455	6Px0.5mm2	200	MTRS.	125.00	25,000.00
456	2Px1.5mm2	200	MTRS.	110.00	22,000.00
457	Cat 5 (LAN)	160	MTRS.	110.00	17,600.00
458	3C x 2.5mm2	240	MTRS.	135.00	32,400.00

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459	Supply & laying of Instruments cable tray with tray cover (Branch Cable tray (50mm x 50mm), Main cable tray 900 mm, cable tray 300mm, cable tray 150 mm.) as per requirement, instruments/ PGD, CCTV/ mounting poles, instrument protection sun sheds, angles, channels, MS plates & all the erection materials and as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including installation of support, cable clamping, installation of tray cover and support painting.	1	LS	1,50,000.00	1,50,000.00
460	Supply , installation & laying of tubes and fittings as per requirement and as per PTS-Instrumentation with appendices and Scope of Work C&I. SS 316L TEE (1/2", Class 3000#, Screwed, NPTF, Seamless) ,SS316L GLOBE/BALL VALVE (1/2", Class 800#, Screwed, NPTF, Seamless), SS316L PLUG (1/2", Screwed, NPTM, Hex head, class 3000#), SS316L PIPE NIPPLE (½" NPTM, seamless, schedule #160) Length of the pipe nipple as per requirement, SS316L MALE CONNECTOR (1/2" OD x 1/2" NPTM), SS316L FEMALE CONNECTOR (1/2"OD x 1/2" NPTF), SS316L UNION (1/2" OD), SS316L TUBE (1/2" OD x 0.065" WT), SS316L TUBE (1/4" OD x 0.035" WT)	1	LS	75,000.00	75,000.00
461	Supply of mandatory spares as per Mandatory Spare (P.017110 G 11075 I001)	1	LS	1,25,000.00	1,25,000.00
462	AT Jharia - Installation of metering skids, metering cabinet under the supervision of skid supplier, cable laying and terminal of cable from skid junction box to metering system cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	1,50,000.00	1,50,000.00
463	At Jharia Installation of gas chromatograph skid, analyser & controller cabinet under the supervision of skid supplier, cable laying and terminal of cable from analyser cabinet to controller cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	2,50,000.00	2,50,000.00
464	At Jharia Installation of H2S & Moisture analyser skids, cabinet under the supervision of skid supplier, laying and terminal of cable from skid field mounted cabinet to LCP/RTU. Including supply of all the required erection, fabrication and civil materials.	1	LS	2,00,000.00	2,00,000.00
465	At SV 28 Spare Input output available in existing RTU, internal wiring at site, field connection, configuration and commissioning., interfacing with LCP and configuration of new parameters in existing RTU, as per Scope of Work.	1	LS	2,00,000.00	2,00,000.00
466	**Sub-Total Section F**				**62,53,500.00**
467	**SECTION-G [TELECOM WORKS]**				
468	Supply Telecommunication system, SDH equipment STM-4 Based SDH Cabinet of (2000H x 800W x 800W along with 100 mm base frame) as per below configuration: - 2*STM-4 + 2*STM-1 + 8FE ports as per PTS-Telecommunication system (P.017110 G 11077 I002), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including erection, testing, integration with existing NMS at Noida, Commissioning and integration with existing telecom system at SV 28 additional SFP of L4.2 for SV 28 connectivity	1	Nos	60,000.00	60,000.00
469	Supply of CCTV-IP based Fixed colour camera and PTZ colour camera along with power cable, communication cable at each station as per PTS-Telecommunication system (P.017110 G 11077 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work., including erection, testing, integration with existing VMS at Noida, Commissioning and integration with existing telecom system at SV 28				
470	Fixed Camera WP IP65	1	Nos	50,000.00	50,000.00
471	PTZ camera WP IP65	1	Nos	60,000.00	60,000.00
472	Supply of one Analog phones control room, one number in guard room and one number WP IP66 in field safe area as per PTS-Telecommunication system (P.017110 G 11077 I002) , PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Shakti Engineers

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
473	Analog Phone	2	Nos	35,000.00	70,000.00
474	Analog Phone Ex Proof WP IP 65	1	Nos	55,000.00	55,000.00
475	FXO cards	1	Nos	50,000.00	50,000.00
476	FXS	1	Nos	35,000.00	35,000.00
477	Five pair armoured telephone cable, size 0.5mm2	100	MTR.	600.00	60,000.00
478	AT Jharia- Free issue RTU by GAIL: Transportation from Gail store to site location, installation, cabling from LCP to RTU, commissioning etc. Erection, installation of RTU inside the station control room including supply of all the required erection materials, fabrication and civil works	1	LS	1,50,000.00	1,50,000.00
479	At SV 28 Spare Input output available in existing RTU, internal wiring at site, field connection, configuration and commissioning., interfacing with LCP , cable laying from LCP to RTU, and configuration of new parameters in existing RTU, as per Scope of Work.	1	LS	15,000.00	15,000.00
480	**Sub-Total Section G**				**6,05,000.00**
	Total of Section A + B + C + D + E + F + G				**13,71,70,200.00**
479	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Total of Section A + B + C + D + E + F + G above	18	percentage	18	2,46,90,636.00
480	Rate of Extended Stay Compensation per month beyond the time schedule and grace period mentioned in Bidding document for reasons solely attribute to Owner (exclusive of GST) Notes:- 1;- Extended Stay Compensation shall be loaded on the quoted price as per evaluation methodology. 2;- In case, no rate for extended stay compensation is stipulated, it will be considered that extended stay compensation is not required by the Bidder and the rates quoted by them shall be valid till completion of works in all respects.	1	Nos	7,00,000.00	7,00,000.00
481	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Extended Stay Compensation at Sl. No. 480 above	18	percentage	18.00	1,26,000.00
	Grand Total				16,26,86,836.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Shree Balaji Engineering Services

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
				UNIT RATE	TOTAL RATE
1	**SECTION-A (MAIN LINE WORKS)**				
2	**CH.0.00 KM to CH.5.667 KM**				
3	**MAINLINE, PIPING AND MECHANICAL**				
4	PIPELINE LAYING / INSTALLATION Laying/ installation of coated line pipe, associated fittings and accessories, etc. as per specifications, drawings, other provisions of Contract and instructions of Engineer-in-Charge, including but not limited to carrying out the following: "Receiving and taking-over", handling, loading, transportation and unloading of Owner supplied coated and bare line pipes and other Free Issue Materials from Contractor's own stock-yard to Work site including stringing on the pipeline Right-of-Use (ROU), Arrangement of all additional land required for Contractor's storage, Performing the additional survey wherein survey data is not sufficient in the opinion of Contractor, arrangement of working RoU if RoU width is not sufficient for equipment/ vehicle movement etc., access for construction (other than Owner provided ROU; Developing necessary access way to the worksite, including earth filling, levelling, etc.; supply of all materials (except Owner supplied materials), supply of all materials, consumables, equipment, labour, etc.; fabrication, Staking and installation of construction markers, clearing, grubbing, grading (as required) of Right of Use; clearing and grading of ROU; Cutting/ uprooting of shrubs, plants, vegetation within ROU; , Trenching to all depths and to a width to accommodate the pipeline with optical fiber cable (inside HDPE Duct) by excavation in all types of soil (in case of hard rock, additional payment for hard rock breaking will be paid as per separate SOR line item), including additional trenching for seismic and other areas as specified,(Rate for laying of optical fibre cable and HDPE Duct not be included here and same to be quoted against separate SOR item); Carrying out repairs of pipe and coating defects not attributable to Owner; Thorough internal cleaning of all pipes by suitable methods to remove debris, shots, grits etc.; Stringing of line pipes along ROU including providing straw bags, soft padding/sand padding; Aligning, cold field bending, cutting and beveling (as required) of pipes for welding and field adjustments, NDT & NDT of re-beveled area, welding, carrying out destructive & non- destructive testing of welds required as per approved NDT specifications (including radiography) and providing all requisite equipment, labour, supervision, materials, films, consumables etc.; carrying out repairs of weld joints as required, carrying out re- radiography and other non-destructive tests on repaired joints, etc.; Installation of carrier pipe including concrete coated pipes (wherever required),				
5	(Concrete Coating on pipes, covered separately) at all crossings including roads/ canals/ nala/ water crossings etc. (supply and installation of casing pipe by open cut or by Jacking/ boaring method covered separately) including pre-testing as required; Carrying out installation of carrier pipe in the casing pipe at cased crossings; Coating of all field weld joints, long radius bends (fabrication of Cold field bends covered here and fabrication of 6D bends by induction heating covered separately), buried fittings etc.; Supply & Installation of warning tape along the entire length of Pipeline including Crossing. Lowering the pipelines in trench, providing required padding over and around the pipeline with sand/graded material (in rocky areas), backfilling with available approved excavated material and/or other suitable soil (supply and providing of soft soil for pre & post padding in Rocky area); Supply and installation of slope breaker as per specifications and drawings in steep slope areas, wherever required; Carrying out hydrostatic testing including air cleaning, flushing, filling, gauging, pressurization of complete pipeline in various test sections as approved by Engineer-In-Charge to the specified test pressure, providing all equipment, pumps, fittings, instruments, dead weight tester, all types of pigs etc., and services, supervision, labour, consumables, arranging water required for hydrostatic testing including supply of corrosion inhibitor, air, etc. as required, locating of leaks and rectification of defects attributable to Contractor, re-testing after rectification, successful completion of hydro-testing of pipeline (De-watering covered else where in the SOR); including all tie-in(s) with the pipeline/ piping installed by others including cutting of test header, re- beveling as required; Carrying out all temporary, ancillary, auxiliary works and all incidental works required to make the pipeline ready for pre- commissioning; Carrying out EGP for the entire stretch of completed pipeline, Repair of defects recorded during EGP/gauge plate run or otherwise including cutting, beveling, welding, NDT, field joint coating etc.; as applicable, Final clean-up and restoration of right of use including obtaining NOC from respective statutory authorities as required and disposal of debris and returning all surplus material to designated disposal areas/storage yard, as directed by Engineer-In-Charge; Restoration of land, facilities and boundary wall etc. at associated facilities dismantled/damaged by the Contractor during construction; Obtaining work permits/ NOC from various statutory authorities having jurisdiction and complying with all stipulation/conditions/recommendation of the said authorities; Preparation of as-built drawings, pipe-book and other records. SOR shall be read in conjunction with Project drawings, scope of work, specifications, standards and other provisions of contract document. The work includes the Survey data & site preparation, Stringing/Chainges in direction, Beveling of pipe element, Welding Procedure Qualification & Welders Qualification, Welding of pipe element, Inspection & testing of production welds, Field joint coating, controlled blasting, chiseling, etc., Material hand over & material handling, Lowering-in & ballasting, All crossings except HDD as mentioned in Crossing List (including installation of carrier pipe inside the Casing at cased crossing) , Backfilling (for all depths in all types of soil, soft /hard rock) , including trench padding with sand, graded earth in rocky areas & rock shield(if required as per specs) reinstatement (restoration) and preparation of As-built Alignment & Crossing drawings.				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Shree Balaji Engineering Services

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
6	All above works shall be executed in accordance with scope of work, GTS, PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. 1. Supply and Installation of OFC and HDPE Ducts along the entire pipeline route, adjacent to the new pipeline, along with all required accessories, fittings and associated items, is covered separately in the SOR. All above works for buried pipeline (including hook-up pipeline from Tap Off Point inside ONGC GCS, Jharia upto proposed plot for GAIL DT), as per following details :				
7	ND 8", API5L X60 - 6.4 mm	4250	M	2,800.00	1,19,00,000.00
8	ND 8", API5L X60 - 7.1 mm	1588	M	2,800.00	44,46,400.00
9	Concrete slabs (Mechanical Protection) as per technical specifications Supply, fabrication and installation of reinforced concrete weights. Reinforced steel size should be 8 mm. top and bottom at a rate of 200 mm c/c of precasted RCC 1:2:4 on pipeline of wall thickness of 75 mm thick and size as per specifications & Standard drawings and instructions of Owner/ Owner's representative including supply of consumables, materials, equipment, labor, supervision, all associated civil works.	110	M	5,000.00	5,50,000.00
10	Continuous Concrete Coating Supply of all consumables and materials, equipments, manpower, submission of application procedure with calculations for anti-buoyancy, design mix procedure qualification and application of continuous concrete weight coating thickness mentioned below (higher also, in case design requirements) on pipeline of all thickness, concrete weight coating of the field joints thereof, and performing all works as per specifications and instructions of Owner/Owner's representative and other provisions of CONTRACT DOCUMENT.				
11	25 mm thick	12	M	2,000.00	24,000.00
12	30 mm thick	12	M	2,000.00	24,000.00
13	GEO TEXTILE BAGS FOR ANTI-BUOYANCY				
14	Additional works over and above item no. 4 to 8 for design, manufacture and supply of Non-biodegradable geo-textile bags and installation of geo-textile bags duly filled with gravel/ stone ballast on pipelines of all wall thicknesses for anti-buoyancy, drawings, scope of work and instructions of Engineer-in-Charge and other provisions of the Contract document.				
15	ND 8" (for all thicknesses)	12	M	2,000.00	24,000.00
16	Permanent Markers Supply, fabrication and installation of following types of permanent markers along the pipeline route including all associated civil works such as excavation in all types of soil, construction of pedestals and grouting with concrete, clearing, supply & application of approved color and quality of primer and paint, stencil letter cutting for numbers, direction, chainage, etc. restoration of area to original condition and performing all works as per drawings, specifications and instruction of Owner/Owner's Representative.				
17	Pipeline Warning Signs	14	Nos	15,000.00	2,10,000.00
18	Right-of-way boundary markers	22	Nos	2,500.00	55,000.00
19	Kilometer Markers	4	Nos	15,000.00	60,000.00
20	Aerial Markers	1	Nos	15,000.00	15,000.00
21	Directional Markers	69	Nos	100.00	6,900.00
22	Repair of Defects in Pipe Coating (Attributable to OWNER)				
23	Repair of Line Pipe Coating: Supply of all coating repair materials as per the requirements of the relevant specifications, supply of all consumables, utilities, equipment, and all manpower required, pipe cleaning and surface preparation, repairing of coating defects (resulting in holiday in coating) and testing including all handling, transportation, etc. for line pipes, performing all works necessary for the completion of the works strictly in accordance with the relevant specifications and instructions of OWNER.				
24	Repair of Holidays in Coating	20	Nos	100.00	)00.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Shree Balaji Engineering Services

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
25	Repair of Cosmetic Defects in Coating: Description of same as in item no 23 above, but for repair of cosmetic defects in coating.	30	m3	100.00	3,000.00
26	**Repair of Defects in Line Pipes**				
27	Repair of OWNER supplied pipes of all wall thicknesses, recorded at the time of taking-over by CONTRACTOR at all places of work.				
28	Cutting and rebevelling	15	Nos	100.00	1,500.00
29	Jack out method	15	Nos	100.00	1,500.00
30	All works for locating burst (occurred during hydrostatic testing and tightness test attributable to Owner issued materials) including detecting burst, necessary repairing/replacing defective pipe lengths, including cutting out and removing the defective pipe, pretesting the replacement pipe, welding of replacement pipe into mainline and NDT of welding, repair and re-testing of defective welds, coating of welded joints, cleanup, retesting including providing all labor, materials, consumables and inputs other than OWNER supplied materials and performing all works as per drawings, specifications and directions of Owner/ Owner's representative. In case of pinhole leaks not easily detectable all works for locating leak (occurred during mechanical resistance test and tightness test attributable to Owner issued materials) including detecting leak, The Payment will be made as per actual efforts and based on Equipment and manpower Rate provided in SCC . Further replacement & retesting will be paid as above.	2	Per burst	100.00	200.00
31	LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER) (FOR TERMINAL PIPING) LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER DUE TO FIM) All works for leak/burst (occurring during hydrostatic testing) by necessary repair/replacement of defective pipe length, including cutting and removing out defective pipes, welding, NDT of welds, repair and re-testing of defective welds, painting of welded joints, clean-up, re hydro testing of the pipe segment including providing all necessary equipment, labour, materials, consumables and inputs other than Owner supplied materials and performing all works as per drawings, scope of work, specifications, standards enclosed with the Contract and directions of Engineer-in-Charge. Note: 1. This rate shall be applicable for manufacturing defects in Company supplied materials only.	6	Inch-meter	100.00	600.00
32	IDLE TIME PRESERVATION OF PIPELINE Preservation of complete pipeline and associated facilities and its maintenance including supply of all consumables, all equipment, man- power, etc., complete as per the requirements of specifications, scope of work, standards, other provisions of Contract document and instructions of Engineer-in- Charge. By filling and pressurizing with nitrogen including supply and maintenance of nitrogen as per following details:				
33	Pipe OD - 8 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - 3 MONTH	6030	M	10.00	60,300.00
34	Pipe OD - 8 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - FOR EVERY ADDITIONAL MONTH BEYOND INITIAL 3 MONTHS	6030	M	10.00	60,300.00
35	**PRE-COMMISSIONING FOR NATURAL GAS PIPELINES SYSTEM, Carrying out pre-commissioning activities and pre-commissioning checks to the specified acceptance criteria, making the entire pipeline system ready for commissioning (It includes cleaning including magnetic cleaning, Electrical Geometrical Pigging survey, dewatering, swabbing,, pre-drying activity, Golden-tie ins connecting the stations),, supply of all equipment, man-power, consumables, including all type of pigs and required quantity of nitrogen, materials for all temporary works and performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.**				
36	Pipe OD - 8 INCH	6030	M	100.00	6,03,000.00
37	**Commissioning Assistance**				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Shree Balaji Engineering Services

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
38	OVERALL COMMISSIONING OF ENTIRE PIPELINE SYSTEM Overall commissioning including system checks, inertisation (as required) and charging of entire pipeline system, including all stations and all associated facilities including notifying the Company that the pipeline system is ready for commissioning; Review of status jointly with the Company and obtaining final clearance for start of commissioning; Development and submission of commissioning procedures, obtaining Company approval thereupon, carrying out overall commissioning of the total pipeline system including all facilities and all necessary coordination/ liaison with other Contractor(s) operations; Carrying out commissioning; Supply of all equipment like Nitrogen vapourisers (as required), along with all piping and instruments, temporary venting/ flaring/draining facilities as applicable, man-power, consumables including pigs and required quantity of Nitrogen (as required); Performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.				
39	Pipe OD - 8 INCH	6030	M	50.00	3,01,500.00
40	PIPELINE INFORMATION MANAGEMENT SYSTEM Providing pipeline information management system using web based software for monitoring pipeline construction progress and providing all "As Built" data & drawings for entire length of pipeline as per specifications enclosed with the tender document.	1	LS	5,00,000.00	5,00,000.00
41	VIDEO FILM & PHOTOGRAPHY OF CONSTRUCTION ACTIVITIES Preparation of high resolution video films with audio commentary and Industrial photography covering all aspects/activities of pipeline construction annotated as required, conversion of same to video DVD/Blue Ray format, submitting three (3) sets of the same as per details in scope of work document	1	LS	1,50,000.00	1,50,000.00
42	**FABRICATION OF LR BENDS :**				
43	Fabrication of 6D bend / LR (Induction) bends as per the relevant standard & Specification attached with the tender document from free issue linepipes (mother pipe) including but not limited to the following: "Receiving and taking over of free issue linepipes" from GAIL Dump Yard location as mentioned in Scope of Work, carrying out inspection of line pipe at the time of receive taking over in the presence of Company representative, carrying out repair of pipe defects attributable to Contractor after taking over, including supply of consumables & equipments; handling, hauling, transportation and loading/unloading required to transport the mother pipes between place of issue, LR bend fabricator/ manufacturer, intermediate storage as required, and final delivery of fabricated LR Bends to the worksite(s), as per requirement, Manufacturing/ fabricating of LR Bends, as per project requirements and Specifications. LR bends exact angle(s) shall be as per pipeline alignment. Note:- 1. Rate for repairing of defects in linepipes identified and recorded at the time of receiving & taking over i.e. defects attributable to Company shall be quoted separately in the applicable items of the SOR. 2.Loading of Pipe into installation contractor trailer shall be carried out by the GAIL Dumpyard maintenance agency already engaged by the Company.				
44	Bare Pipe ND 8", API5L X60 - 6.4mm	8	Nos	50,000.00	4,00,000.00
45	Bare Pipe ND 8", API5L X60 -7.1 mm	15	Nos	50,000.00	7,50,000.00
46	**SUPPLY AND INSTALLATION OF CASING PIPE & 6 INCH CS CONDUIT:** Supply and installation of casing pipe and 6 inch CS conduit for OFC by jacking / boring or open cut for rail, road or canal crossings wherever required in all types of soils and terrain separately for carrier pipes and fibre optic cable inside HDPE duct, supply of casing pipes and all other Contractor supplied materials viz. casing insulators and casing end seals as per enclosed drawing, materials for casing vents and drains, etc. including transportation, supply of all other materials, equipments, consumables, man-power, welding including visual inspection of all weld joints, installation of casing insulators, end seals, vents and drain-off pipes, backfilling and restoration as original of the facility crossed and performing all works as per drawings, specifications including PTS and GTS and instructions of Engineer-in Charge and provisions of Contract document.				
47	Supply and installation of Casing pipe by Boring / Jacking as per item no. 46 (Railway crossing) Casing Pipe Details: (Pipe 14" , 8.7 mm Thick, API 5L GR.B)	200	M	12,000.00	24,00,000.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Shree Balaji Engineering Services

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48	Supply and installation of Casing pipe by Boring / Jacking as per item no. 46 (Other than Railway Crossings) Casing Pipe Details: (Pipe 14" , 6.4 mm Thick, API 5L GR.B)	12	M	12,000.00	1,44,000.00
49	Supply and installation of 6 inch CS Conduit by Boring/Jacking as per item no. 46 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	200	M	12,000.00	24,00,000.00
50	Supply and installation of Casing pipe by open cut as per item no. 46 Casing Pipe Details: (Pipe 14" , 6.4 mm Thick, API 5L GR.B)	12	M	12,000.00	1,44,000.00
51	Supply and installation of 6 inch CS Conduit by open cut as per item no. 46 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	12	M	12,000.00	1,44,000.00
52	**HDD CROSSING**				
53	**Generalities**				
54	Topographic / Bathymetry, Geotech Investigation and Hydrological data collection				
55	Site preparation				
56	Design & stress calculations as per requirement				
57	Material hand-over and material handling				
58	Site reinstatement				
59	Final dossier including all notes & calculations as required in the specification				
60	***Installation of 6 inch CS Conduit***				
61	Teletransmission--Separate Drilling for 6 inch CS Conduit for OFC installation				
62	Installation of HDPE duct & OFC cable inside 6 inch CS conduit				
63	Drilling & Pulling of 6 inch CS Conduit shall be done before mainline HDD.				
64	***Pipeline string***				
65	Beveling & welding				

Prepared Checked Approved

TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Shree Balaji Engineering Services

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66	Inspection & testing of welds				
67	Field joint coating				
68	Temporary support (roller)				
69	Control of pipeline string				
70	Hydrotesting & leak test				
71	***Drilling operation***				
72	Earthwork entry / exit points including grading erection of embankment etc..				
73	Supply & clearing out of all material needed for drilling				
74	Drilling of washer pipe, reaming & cleaning of drill opening, supply and preparation of bentonite				
75	Pull back of the pipe string				
76	Disposal of surplus of soil & bentonite				
77	Control of the integrity of the coating				
78	***Work at entry point***				
79	Changes in direction				
80	Beveling & welding				
81	Inspection & testing of welds				
82	Field joint coating & coating of all bare section of pipe				
83	Earthwork				
84	Lowering-in				
85	backfilling as required				
86	***Work at exit point***				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Shree Balaji Engineering Services

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
87	Changes in direction				
88	Beveling & welding				
89	Inspection & testing of welds				
90	Field joint coating & coating of all bare section of pipe				
91	Earthwork				
92	Lowering-in				
93	backfilling as required				
94	Complete work for the water/ Road/ Rail crossings, including taking over and handling of linepipes from Contractor Storage Yard to worksite, Arrangement of all additional land required for Contractor's storage, fabrication, access for construction; construction design calculation and engineering of the crossing, mobilization and demobilization at site(s), supply of all materials as per "Scope of Supply" and all consumables, equipment, manpower and other resources, and acquiring the required land for site preparations, and execution of, but not limited to, the following works in accordance with specifications, drawings, and as per provisions of the Contract document and instructions of the Company/ Engineer-in- Charge: Carry out all surveys required for collecting data relevant to design and construction of the crossing, preparation of all necessary construction drawings for Company's approval as per the provisions of the Contractor document, Preparation of detailed construction method statement and calculations including Scour Depth calculations for river/ canal crossings, Strings preparation including welding, 100% Radiography of welds, NDT of welds and re-beveled areas, radiography, weld repair and re-test, pre-testing of completed string, corrosion coating of field joints with Dirax or equivalent, inspection of corrosion coating and repair of defects, Preconstruction surveys and collection of all necessary data, Installation of pipeline and CS conduit (6 Inch CS Conduit shall be installed through Seperate Drilling) , horizontal directional drilling to the correct profile as per approved drawings and specification, Post-installation hydrotest including leaks and repair of defects and retesting, etc. for defects attributed to Contractor's faulty work, Supply, fabrication and construction of protective fencing as required, Hydrotesting, Supply, fabrication and erection of pipeline markers, Restoration and clean-up etc., Preparation of as-built drawings and other records etc., All other works not specifically listed herein, but required as per specifications, drawings, provision of contract document, calculations, and construction method statements, leading to successful completion of works.				
95	Linepipe details:- (Pipe 8" dia, Wall Thickness: 7.1 mm, Pipe Grade: API 5L GR.X-60 PSL 2, External Coating: 3LPE) CS Conduit details: (Pipe 6" dia, 6.4mm Thick, API 5L GR.B) Note: 1. CS Conduit shall be supplied by the Contractor. Radiography & Hydrostatic testing is not required to be done for CS Conduit. (6 Inch CS Conduit shall be installed through Seperate Drilling) Contractor shall quote accordingly. 2. The rate shall be applicable for the drilled length of the HDDs. All above works shall be executed in accordance with scope of work, GTS,PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. This line item is applicable for HDD crossing mentioned in the Crossing List with prior approval of Engineer - In-Charge during Construction.	192	M	7,500	14,40,000.00
96	**SUPPLY & INSTALLATION OF OPTICAL FIBBE CABLE AND HDPE DUCT**				
97	Suppy of 24 Fibre Composite armoured Optical Fibre Cable drum (6 fibre G-655 & 18 fibre G-652) of 4 km +/-5% Cable drum length with fiber terminal closure, inspection chamber, electronic route marker all along pipeline route, Two number electronic locater as per PTS-Optical Fibre cable and Scope of Work C&I along with all required accessories and fitments not mentioned seperately.	7000	M	100	)00.00

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98	Inspection/Jointing Chamber (fabricated or readymade)	3	Nos	25,000	75,000.00
99	Blowing Pit (fabricated or readymade)	7	Nos	25,000	1,75,000.00
100	Supply of jointing closure 24 Fiber, 2 way including all accessories (3M, Siemens, Reychem make only)	3	Nos	15,000	45,000.00
101	Supply of End to End OFC termination of wall mounted FTC with pig tails other accessories for termination of OFC - 24 Fibre in the Telecom Room at Jharia & SV28	2	Nos	25,000	50,000.00
102	Electronic marker	3	Nos	15,000	45,000.00
103	Electronic Locator	1	Nos	15,000	15,000.00
104	Supply of 50mm OD permanently lubricated HDPE telecom duct along with all the required accessories as per PTS-Optical Fibre cable and Scope of Work C&I	7000	M	100.00	7,00,000.00
105	Laying of HDPE Duct : Laying of 50mm HDPE Ducts in same pipeline trench direct buried, or inside 6 inch CS conduit at various crossings as per Specification in all type of soil & terrain, excavated as required, padding, backfilling, etc. including supply of accessories required for HDPE Duct installation, including plastic couplers, end plugs, cable sealing plugs, end caps, etc. suitable & sufficient for above supplied ducts, cleaning and sealing of ducts at the end laid drum lengths, preparation and supply of cable blowing pit at each Km jointing of HDPE duct, testing of HDPE Duct and accessories after laying preparation of report and final drawing and documents as per specification, joint location marking, erection accessories, as-built, etc.	7000	M	50.00	3,50,000.00
106	Blowing of Optical Fibre Cable inside HDPE Duct : All activities pertaining to Blowing of Optical Fibre Cable in same pipeline trench directly (after testing drum at site), inside HDPE duct along the pipeline and at crossing, sealing using all materials required as per specification	7000	Nos	50.00	3,50,000.00
107	Installation of FTC & Wire mesh, termination of OFC on FTC / DDF inside telecom room, splicing with steet fibre, fibre test, OTDR test, power testing of laid OFC, identification of fault, rectification, earthing, final testing and commissioning, preparation of reports, etc. work complete in all respect with all necessary accessories for all location till final Handing Over and Taking Over by Owner of laid OFC.	1	LS	1,00,000.00	1,00,000.00
108	**TRANSPORTATION OF COATED AND BARE LINEPIPES FROM GAIL DUMPYARDS (ANY LOCATIONIN INDIA) TO CONTRACTOR STORAGE YARD:**				
109	"Receiving and taking over" of "free issue" Linepipes from GAIL Dump Yard location (any location in India); Carrying out inspection of Linepipes at the time of receiving and taking-over, recording of pipe & coating defects at the time of taking over in the presence of Company's representative, carrying out repair of coating defects & pipe defects attributable to Company; including supply of materials, consumables & equipments; handling, hauling and transportation from designated place of issue to Contractor Storage Yard; unloading and stacking of the linepipes at Contractor Storage Yard; including arranging all equipments, trailers, trucks & manpower; all works as per Scope of Work, drawings, PTS, GTS and other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, Provision of Contract & instructions of Engineer InCharge.				

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110	Linepipe Details:- Coated and Bare Line Pipe 8" diameter API 5L Gr. X-60 PSL-2 Wall Thickness - 6,4mm / 7.1mm External Coating - 3LPE, Internal Coating - Liquid Epoxy 1) Loading of Pipes into Installation contractor's trailer shall be carried out by the contractor. 2) Development & Maintenance of Contractor Storage Yard adequate to store the linepipes including arrangement of all Lifting & Handling equipment at Contractor's Storage Yard shall be done by the Contractor. Rate for the same shall be quoted in applicable items. 3) Rate for repairing of coating defects in linepipes identified and recorded at the time of receiving & taking over i.e. coating-defects attributable to Company shall be included in this item. 4) Rate for repairing of pipe-defects identified and recorded at the time of receiving & taking over i.e. pipe-defects attributable to Company shall be quoted separately in the applicable items of the SOR. 5) Transportation of line pipe from Contractor's Storage Yard to work site is included in SOR item 1 above, No separate payment will be applicable for the same.	350000	Ton-Km	10.00	35,00,000.00
111	TRANSPORTATION OF FREE ISSUE PIPING ITEMS (OTHER THAN LINE PIPE) FROM GAIL STORAGE YARDS (ANY LOCATION IN INDIA) TO CONTRACTORS YARD / WORKSITE(S) : "Receiving and taking-over", handling, lifting, loading, transportation and unloading of Company supplied "free-issue materials" (Other than line pipe) viz. Metering Filtering and PRS Skid, Scrapper Launcher/ Receiver & accessories, Valves with or without Actuators, Insulation Joints, Flow Tee, Pig Signallers, fittings, flanges etc. from GAIL Storage yards location (any location in India) to Contractor's Storage Yard / work-site(s). Note:- 1) Location of GAIL Storage Yard shall be anywhere in India. Contractor shall quote accordingly. 2) Transportation of FIM from Contractor's Storage Yard to work site, is included in SOR item 119 below, No separate payment will be applicable for the same.	24000	Ton-Km	15.00	3,60,000.00
112	**DEVELOPMENT OF CONTRACTOR STORAGE YARD:**				
113	Development of the Contractor Storage Yard including fencing, illumination etc., including deployment of all lifting and handling equipments, manpower required to stack, unload and load all Free Issue Material (FIM) including Line Pipes and all bought out items, as required; storage of all Free Issue Material and bought out items for the required duration as per project requirement, all works as per Scope of Work, drawings, other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, PTS, GTS and Provision of Contract & instructions of Engineer In-Charge. The storage yard shall be used for storage of all Free Issue Line pipes, all other Free Issure Material (FIM) and all bought out items required for the project. Notes:- 1) Development of contractor storage yard adequate to store all the material required for Project, including all Free Issue Material (FIM) and bought out items. (Rate for the same shall be captured in this item) 2) Maintenance of contractor storage yard for the entire project period is included in the scope of contractor. No separate payment shall be applicable for the same.	1	LS	10,00,000.00	10,00,000.00
114	Hard Rock breaking by controlled blasting / chiseling method (rate will be applicable in case when prior approval for rock breaking is obtained by the contractor from GAIL / PMC)	50	M3	2,500.00	1,25,000.00
115	Clean Agent Fire Supression System as per Scope of Work	1	LS	1,00,000.00	1,00,000.00
116	Restoration of underground utilities (pipes & cables) during excavation at ONGC, GCS Jharia and Receiving Station (which is inside SV-28 Premises)	5	Nos	50,000.00	2,50,000.00
117	**Sub-Total Section A**				**3,47,61,200.00**
118	**SECTION-B [MECHANICAL (PIPING & TERMINAL WORKS)]**				

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119	**PIPING WORKS AT DESPATCH AND RECEIVING STATIONS AND HOOK-UP WITH ONGC GCS, JHARIA** All works for installation of all piping at all elevations for Despatch and Receiving Stations as indicated in Drawings, Scope document, including supply of all consumables, Gaskets, nuts, bolts Studs, manpower, materials and equipment (except Company supplied free-issue materials), aligning, grouting, tie-in with pipeline and carrying out all mechanical works of underground and above ground piping including fabrication, welding, installation of all pipes, valves (manual & actuated), flanges, fittings, flow tees, pig signalers, insulating joints, corrosion monitoring probes /corrosion coupons, installation of instruments (pressure/temperature gauges, vents, drains-off, safety relief valves, electro hydraulic valves etc.) as indicated in P& IDs and GADs. 100% Radiography of weld joints of piping above 1.5 inch, Magnetic particle & Die penetration test for piping 1.5 inch & below, all NDT of welds, weld repairs/retesting, hydrostatic testing, cleaning/flushing, functional testing, de-pressurizing , Drying and dewatering, cutting and re-beveling (as required), hookup of all pipeline/utilities at the battery limit with the pipeline/utilities installed by others, obtaining all statutory clearances, approvals and permissions for the work (wherever required), excavation and filling in all types of soils including soft/hard rock for installation of piping/ pipe supports; corrosion coating and external painting (as required), finishing, clean-up and restoration of site, preparation of as- built drawings, documents and project records and performing all works as per drawings, specifications, other provisions of Contract document and instructions of Engineer-in-Charge. Civil/ structural works for piping supports will be paid separately as per unit rate provided elsewhere in the contract. Cost of Transportation of all materials (Including FIM mentioned above) for station works, from Contractor's own stock-yard to Work site, to be included in this SOR item. No separate payment will				
120	Fabrication and Erection of piping as per item no.110, (For Pipe Size 2 Inch and above, 100% Radiography) Note: 1. Rate for Handling, Fabrication and erection of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item. Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor.Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes 2" & above, shall also be part of this item. Contractor shall quote accordingly.	1500	INCH DIA METER	1,200.00	18,00,000.00
121	Fabrication & Erection of Piping as per item no. 110 (For Pipe Size Below 2 inch, Magnetic particle & Dye Penetration Test as per the requirement of specification) Note: 1. Rate for Handling and installation of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item.Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor. Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes below 2", shall also be part of this item. Contractor shall quote accordingly.	50	INCH DIA METER	1,200.00	60,000.00
122	Painting of Piping (Pipe, Fittings, Flanges, Valves, Equipments, etc.) as per item no. 110	1550	ICH METER	200.00	3,10,000.00
123	Hydrostatic testing, cleaning / flushing, functional testing, de-pressurizing, dewatering & drying of Piping as per item no. 110 (for all size upto 10").	1550	ICH METER	200.00	3,10,000.00
124	**INSTALLATION OF COMPANY SUPPLIED FIM (FML SKID AND PIG LAUNCHER/RECEIVER SYSTEM) AT DESPATCH TERMINAL AND RECEIVING TERMINAL**				
125	Installation of Company supplied Filtering, Metering and PRS Skid and Scrapper Launcher/ Receiver with accessories, at stations including all handling and installation works; as per drawings, specifications enclosed with the Contract and directions of Engineer-in-Charge. Cost of Transportation of above Free issue items, from Contractor's own stock-yard to Work site for station works, to be included in this SOR item. No separate payment will be applicable for the same.	1	LS	5,00,000.00	5,00,000.00
126	**CONTRACTOR SUPPLIED ITEMS:(Supply of Items as per attached PTS,GTS,Data Sheet,QAP and PMS)**				
127	**Station pipe -Seamless**				
128	1" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, PE, SEAMLESS	6	METER	5,000.00	30,000.00
129	2" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	90	METER	5,000.00	4,50,000.00
130	4" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	135	METER	5,000.00	)00.00

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131	8" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	50	METER	12,000.00	6,00,000.00
132	8" pipe, 6.4mm thk, ANSI B 36.10, API5L X 60, BE, HFERW/SEAMLESS	29	METER	12,000.00	3,48,000.00
133	10" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	12	METER	14,000.00	1,68,000.00
134	**Supply of Fitting & Flanges**				
135	1 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 350 LF2,CL1, BW, ANSI B16.25	4	Nos	7,500.00	30,000.00
136	2 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25.	3	Nos	7,500.00	22,500.00
137	1" WNRF FLANGES, 6C1, SCH. 160 / 600#, WNRF, B-16.5, ASTM A350 LF2, CL1, BW-ANSI B16.25 RF	4	Nos	4,000.00	16,000.00
138	8", WNRF FLANGES, 6C2, 6.4 thk/ 600#, WNRF, B-16.5, ASTM A694 F60 OR EQUIVALENT, CL1, BW-ANSI B16.25 RF.	5	Nos	8,500.00	42,500.00
139	1", BLIND FLANGES, 6C1, 600#, RF, B-16.5, ASTM A350 LF2, CL1, RF	4	Nos	4,000.00	16,000.00
140	3/4" EQUAL TEES, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25,	1	Nos	3,500.00	3,500.00
141	3/4", CUP THREADED 6C1, 6000#, ANSI B16-11, ASTM A 350 LF2, CL1 , BW - ANSI B16.25, ANSI B1.20.1,	3	Nos	3,500.00	10,500.00
142	**WELDOLETS (MAINLINE x BRANCH SIZE)**				
143	4" x 1", WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1 ,	2	Nos	10,000.00	20,000.00
144	8" x 2" WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 6.4 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 694 F60	13	Nos	15,000.00	1,95,000.00
145	8" x 2", WELDOLETS (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	26	Nos	25,000.00	6,50,000.00
146	**GASKETS**				
147	GASKETS, 6C1, 600#, RF, ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 1"	12	Nos	4,000.00	48,000.00
148	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 2"	210	Nos	2,000.00	4,20,000.00
149	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 4"	30	Nos	2,000.00	60,000.00
150	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 8"	47	Nos	2,000.00	94,000.00
151	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 10"	2	Nos	2,000.00	4,000.00
152	**NIPPLES**				
153	NIPPLES, 6C1, Sch 160 /600#, ANSI B 36.10, ASTM A333 GR.6, BOTH ENDS PLAIN, SEAMLESS-LG=100mm, 3/4"	12	Nos	8,500.00	1,02,000.00

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154	NIPPLES, 6C1, Sch 160 / 600#, ANSI B 36.11, ASTM A333 GR.7, ONE END THRD -MNPT SEAMLESS- LG=100mm, 3/4"	8	Nos	8,500.00	68,000.00
155	**INSULATING JOINT**				
156	INSULATING JOINT 6C,16.4 mm (X60) x 600# ,MANUFACTURER STANDARDS ,ASTM A694 F60 ,BW - ANSI B16-25, 8"	2	Nos	3,00,000.00	6,00,000.00
157	**Supply of following Valves as Per attached PTS,GTS,Data Sheet,QAP,PMS & MTO**				
158	1",BALL VALVE - FULL BORE (RF) (ABOVE GROUND),6C1	6	Nos	50,000.00	3,00,000.00
159	3/4", CHECK VALVE (RF) (AG), 6C1	2	Nos	50,000.00	1,00,000.00
160	3/4",NEEDLE VALVE, 6C1	5	Nos	50,000.00	2,50,000.00
161	**Note (Applicable for all items of SOR Item No 126 to 160):** **1. Before procurement of any of the above materials Contractor will take prior approval from GAIL / PMC.** **2. Payment will be made for actual quantity used.**				
162	**Sub-Total Section B**				**83,03,000.00**
163	**SECTION-C [CIVIL / STRUCTURAL & ARCHITECTURAL]**				
164	**CIVIL , STRUCTURAL & ARCHITECTURAL**				
165	**Earthwork excavation in soil**				
166	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	1770	cum	400.00	7,08,000.00
167	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth beyond 1.5m and upto and inclusive of 3.0m including Removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	50	cum	800.00	40,000.00
168	**Earthwork excavation in soft rock**				
169	Earth work in EXCAVATION below ground level for all kinds of works in SOFT ROCK and HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as irected including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	130	cum	800.00	1,04,000.00
170	**Backfilling after execution of work**				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Shree Balaji Engineering Services

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
171	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps within a LEAD OF 100M,including re-excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/ mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	580	cum	200.00	1,16,000.00
172	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps beyond a LEAD OF 100M AND UPTO & INCLUSIVE OF 500M including re- excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	250	cum	200.00	50,000.00
173	**Transporting & Disposing the SURPLUS EARTH AND DEBRIS**				
174	Transporting and disposing the SURPLUS EARTH AND DEBRIS including shrubs and vegetations from construction areas to areas ANYWHERE OUTSIDE THE PLANT BOUNDARY, including re-excavating the deposited soil excavated earlier, loading, transportation, unloading, laying at all depths and heights, stacking,levelling and dressing both the area (viz. from where the earth is transported and where it is deposited) to required levels and slopes complete with all lifts as directed. For carting on the basis of truck measurements (volume of truck reduced by 30% for voids). DISPOSAL AREAS OUTSIDE PLANT BOUNDARY TO BE ARRANGED BY THE CONTRACTOR. Royalty as applicable for disposal outside plant limits to be borne by the Contractor	760	cum	200.00	1,52,000.00
175	**EARTH WORK FILLING BY EXCAVATION**				
176	EARTHWORK IN FILLING by excavating the earth from BORROW AREAS arranged by CONTRACTOR for all leads, transporting the earth from borrow area including cleaning & stripping the earth at borrow areas, breaking clods, loading, unloading and laying at all depths and heights in layers of thickness not exceeding 15 cms., watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% of the maximum laboratory dry density, ressing, trimming, levelling the top surface etc. in foundations, plinths, trenches etc. all complete.	4725	cum	300.00	14,17,500.00
177	**PLAIN & REINFORCED CEMENT CONCRETE: (REFER SPECIFICATION NO. (Z/02/0004)**				
178	**PLAIN CEMENT CONCRETE - PCC**				
179	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:4:8 (1 cement : 4 coarse sand (Zone-III) : 8 graded stone aggregate 40 mm nominal size)	105	cum	4,500.00	4,72,500.00
180	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:3:6 (1 cement : 3 coarse sand (Zone-III) : 6 graded stone aggregate 40 mm nominal size)	20	cum	4,500.00	90,000.00
181	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:2:4 (1 cement : 2 coarse sand (Zone-III) : 4 graded stone aggregate 20 mm nominal size)	120	cum	5,500.00	6,60,000.00
182	Providing and laying PLAIN CEMENT CONCRETE for all depths below and upto plinth level in foundations, drains, fillings, non-suspended floors, pavements & ramps or any other works etc. including shuttering, tamping, ramming, vibrating, curing, etc. all as specified in any shape, position, thickness and finishing the top surface rough or smooth as specified and directed all complete for concrete grade M20 with 20mm and down size graded crushed stone aggregates/Gravels. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR	110	cum	5,500.00	6,05,000.00
183	**RCC WORKS**				
184	**SUBSTRUCTURE**				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
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185	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUBSTRUCTURE INCLUDING CENTERING & SHUTTERING) e.g. foundations, raft, beams, pile caps, Retaining walls, counterforts, buttresses, pedestals, pipe sleepers, columns, suspended floors, staircases, landings, steps, brackets etc., including equipment/ machine foundations & pedestals viz. compressors, generators, etc. (including single pour concreting as specified on the drawing), applying cement wash on concrete surface (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering, etc., wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT)for all depths below and upto plinth level in any shape, position and thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	615	cum	7,500.00	46,12,500.00
186	**SUPER STRUCTURE - EXCLUDING CONTROL ROOM BUILDING, GUARD ROOM & BOUNDARY WALL**				
187	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUPER STRUCTURE INCLUDING CENTERING & SHUTTERING in suspended floors, slabs, beams, columns, walls including counterforts, staircases, landings, steps, facias, fins, mouldings, gutters, shelves, window sills, canopies, lintels, girders, ducts, brackets, chajjas with drip moulds, pedestals, posts, struts, equipment/ machine foundations, ramps etc. (including single pour concreting as specified on the drawing), providing cement wash (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT) FOR ALL HEIGHTS UPTO & INCLUSIVE OF 20 m ABOVE PLINTH LEVEL in any shape, position, thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	70	cum	10,000.00	7,00,000.00
188	**CONTROL ROOM BUILDING (SUPERSTRUCTURE)**				
189	Construction of Control Room Building as per drawings and specification. Building work for all Superstructure works INCLUDING CENTERING & SHUTTERING , Reinforcement , masonry work, partition wall, Plastering & pointing, flooring, Floor finishes, Door & windows, rolling shutter, false ceiling, all finishes, painting, roof treatment complete in all respect etc.)	215	m2	10,000.00	21,50,000.00
190	**GUARD ROOM (SUPERSTRUCTURE)**				
191	Guard Room as per drawings and specification. Building work for all superstructure works including (Reinforcement, masonry work Plastering & pointing, flooring, Floor finishes, Door & windows, painting, roof treatment, all finishes, water supply and sanitary work complete in all respect etc.)	17	m2	10,000.00	1,70,000.00
192	**HYD Bars / MS Bars**				
193	Supplying and placing in position HIGH YIELD STRENGTH DEFORMED STEEL BARS REINFORCEMENT of Grade Fe500D TMT conforming to IS:1786, for RCC work (excluding control room building & Guard room & boundary wall superstructure) including transporting the Steel, straightening, cleaning, decoiling, cutting, bending to required shapes and lengths as per details, binding with 18 SWG black soft annealed binding wire at every intersection, supplying and placing with proper cover blocks, supports, chairs, overlaps, welding, spacers, fanhooks etc. for all heights and depths etc. all complete as directed. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE	70	MT	1,20,000.00	84,00,000.00
194	**STRUCTURAL STEEL WORKS (REFER TE SPECIFICATION)**				
195	Supplying, fabricating and erecting of structural steel and applying COATING (Post-erection/ Field) of approved quality and shade as per TE Specification or Job Specifications, wherever applicable) over the coat of shop primer already applied, including storage, surface preparation, degreasing, cleaning, drying, providing necessary arrangement for access, testing etc. including touching up of shop for steel structures (Including Wicket Gate, Main Gate and emergency gate, excluding ladders, spiral stairways & hand rails) at all location & levels, all complete as specified, for UNIT (INLAND) areas considering environment classification as INDUSTRIAL. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE. (Unit rate based on Structural steel weight)	25.5	MT	1,25,000.00	31,87,500.00
196	**MISCELLANEOUS STEEL WORKS (REFER TE - SPECIFICATIONS)**				
197	MS Chequered Plates				

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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198	Supplying, fabricating and erecting in position at all levels and locations bolted, screwed and/or welded M.S. CHEQUERED PLATES of any thickness in walkways, platforms, stairtreads or any other place as directed, etc. cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing, welding, preparation and submission of fabrication drawings and preparing the surfaces for painting and applying shop primer as per TE Specification after fabrication and return of unused/ scrap/ unserviceable chequered plates to Owner's store and material reconciliation etc. all complete as specified and directed	1.5	MT	1,25,000.00	1,87,500.00
199	Anchor Bolts				
200	Supplying, fabricating, fixing and keeping in position at all levels and locations THREADED ANCHOR BOLTS of all diameters and nomenclature including nuts, washers, anchor plates, pipe sleeves etc. in foundations, columns, pedestals, slabs, beams, walls etc. or any other place as directed including handling & transporting, straightening if required, turning from relevant size M.S. rounds to required diameter, threading, welding, providing necessary templates and auxiliary dummy structures, if any, necessary tying and welding with reinforcement, adjustment of shuttering & reinforcement/any other fixture, greasing exposed metal surfaces, covering bolts and packing the sleeves with jute cloth etc. all complete as specified and directed.(SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.6	MT	1,25,000.00	2,00,000.00
201	MS Metal Inserts				
202	Supplying, transporting, storing, fabricating and fixing in position M.S. METAL INSERT (with lugs) of any shape made out of flats, plates, rolled sections, pipes etc. providing necessary templates, staging, cutting,straightening, if required, bolting, welding as required and embedding in position on both Plain and Reinforced Cement concrete members inclusive of adjusting shuttering & reinforcement/ any other fixture, welding where necessary, tying and holding to correct level, line and position, any auxiliary dummy structures to support the heavy inserts, painting exposed surfaces with a coat of primer as per TE Specification all complete for all depths and heights as specified and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	0.55	MT	1,25,000.00	68,750.00
203	MS Grating				
204	Supplying, fabricating and erecting in position at all levels and locations ELECTROFORGED GALVANISED GRATING (purchased from approved manufacturer by the Contractor) conforming to TE STANDARD (in walkways, platforms, stair treads etc.) including cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing with manufacturer's supplied galvanised clamps, preparation and submission of fabrication drawings, all complete as specified and directed (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.85	MT	1,25,000.00	2,31,250.00
205	Hand Railing 1000mm				
206	Supplying, fabricating and fixing in position at all locations 1000mm high INCLINED HAND RAILING (for staircases) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade M.S. Tubes conforming to IS:1239 including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE SPEC. preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	7,500.00	75,000.00
207	Supplying, fabricating and fixing in position at all locations 1000mm high HORIZONTAL HAND RAILING (for platforms, walkways, etc. or any other location as directed) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade MS Tubes conforming to IS:1239 and 100x5 MS Toe Plate confirming to IS:2062 (Grade A/B), including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE standard drawing & specification, preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	7,500.00	75,000.00
208	**CHAIN LINK FENCING**				

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209	Supplying, fabricating and fixing G.I. chain link fencing with 3.5mm dia. wire, 50x50mm diamond mesh chain link fence fabric conforming to IS:2721 fixed to steel/RCC posts/struts above ground level, including supply of chain link fencing fabric in 1.9 metre wide rolls, stretcher bars, staples, etc. required for fixing the fencing, fixing of chain link fencing between straining posts, fixing of bottom of fencing in cement concrete 1:2:4 blocks and painting with synthetic enamel etc. , including supply and fixing line wires, complete as per drawings, specifications and directions of Engineer -in-Charge (All materials shall be supplied by Contractor). (The measurement of chain link fencing shall be on linear basis for 1.9 m wide fencing fabric)	10	M	15,000.00	1,50,000.00
210	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of the Engineer-in-Charge. Made of G.I. wire of dia. 4 mm, PVC coated to achieve outer dia not less than 5 mm in required colour and shade.	600	M2	15,000.00	90,00,000.00
211	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Star' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	200	M	15,000.00	30,00,000.00
212	**ROADS & FLEXIBLE PAVEMENT (UPTO WBM LAYER)**				
213	Preparation and consolidation of sub-grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth outside the property boundary in the un-disputed areas as directed by Engineer-In-Charge.	1500	M2	5,500.00	82,50,000.00
214	Supplying and laying of stone aggregate of 63mm down to 45mm size for WBM layer Base Course, tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 75mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding material of plasticity index upto 6%, including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts etc. complete as per drawings, specifications and directions of Engineer-in-Charge	4500	M2	5,500.00	2,47,50,000.00
215	**CONCRETE PAVEMENTS**				
216	Construction of dry lean cement concrete **(DLC) sub base** over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in- charge.	150	cum	5,500.00	8,25,000.00
217	Providing and laying Reinforced Cement Concrete with 20mm and down size graded crushed stone aggregates in flooring, pavements etc. including leaving pockets, if necessary, making recess/drains, laying in alternate panels, etc. for all depths including shuttering, tamping, curing, providing dowel bars with sleeves/tie bars etc where ever required at site. as specified in any shape, thickness, position and finishing the top surface smooth etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For RCC of M-30 grade concrete (all materials including cement but excluding cost of providing & fixing reinforcement and joint sealing shall be supplied by the contractor).	375	cum	12,000.00	45,00,000.00
218	Providing 20mm wide Expansion Joints in pavement slabs as per general technical specification including cleaning the joints of all loose material, filling with 20mm thick impregnated fibre boards for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved Joint Sealing Compound as per IS:1834 Type-B etc. all complete as per drawings, specifications and directions of Engineer-in-Charge	720	M	1,200.00	8,64,000.00
219	Sealing joint around pedestal and column etc. 20mm wide x 150 mm deep including filling with 20mm thick impregnated fire board for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved joint sealing compound as per IS:1834 Type-B.	300	M	1,200.00	3,60,000.00
220	**RCC PIPE CULVERTS & ELECTRICAL ROAD CROSSINGS ETC. (as per drawing & TE specification)**				

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221	Supplying and laying in position RCC pipes with collars conforming to IS:458 for pipe culverts, cable crossings etc. including cutting the pipe if necessary, lowering, laying in position to proper levels, slopes etc. caulking the joints with spun yarn soaked in neat cement slurry and finishing with cement mortar 1:2 (1 cement : 2 sand) curing etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For following Class and Internal PIPE DIA (MM). (Dia (internal) - 500 mm, Pipe Class - NP3)	20	M	3,000.00	60,000.00
222	**U/G AND A/G G.I. PIPELINE SYSTEM - WATER SERVICES tender specification**				
223	Supplying and laying mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ ASTM A105 (Galvanized) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, earthwork in excavation for trenches, valve pits, etc. in all types of soil excluding soft and hard rock including laying of pipes in trenches, joining the pipes and fittings with threaded connections, hydrostatic testing of the piping, backfilling the trenches with selected/approved earth fill material, cutting of roads wherever required, making good the road surface after laying, disposal of surplus earth within a lead of 500 m, etc. including supply of necessary fittings etc. complete as per specifications, drawings and directions of Engineer-in-Charge. For following Nom.Size in mm. (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	1,000.00	10,000.00
224	Supplying and laying above ground mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ASTM A 105 (GALVANISED) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, including laying of pipes on sleeper, walls, including erecting piping on columns, etc. for pump station, overhead tanks, etc. including joining the pipes and fittings with threaded connections, hydrostatic testing of the piping including supply of necessary fittings etc & pipe supports. complete as per specifications, drawings and instructions of Cement Supplied by contractor (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	1,000.00	10,000.00
225	**MISC. CIVIL AND STRUCTURAL WORKS FOR U/G PIPING AND OTHER CIVIL WORKS**				
226	Providing and laying brick masonry with locally available bricks of specified class (Brick of class lower than specified shall not be accepted) in cement mortar 1:4 (1 cement : 4 Coarse sand) in one or more brick thickness and in any shape in foundation and plinth for valve pits, drains, circular/square manholes, wing walls, etc. including providing recesses, openings, etc. including curing, finishing the joints flush below ground level and raking out joints in plinth with all labour and material, etc. complete as per drawings, specifications and direction of Engineering-Charge. For following Brick Class.	280	cum	5,500.00	15,40,000.00
227	Providing 13mm thick average cement plaster in cement mortar 1:3 (1 cement: 3 sand) on brick walls/stone masonry/pitching or on concrete surfaces for manholes, valves pits, culverts, wing walls, etc. including cleaning and preparation of the surface, scaffolding, curing etc. for all depths and heights complete as per drawings specifications and direction of Engineer-in-Charge. All materials including cement supplied by the Contractor.	750	M2	750.00	5,62,500.00
228	**UNDERGROUND SEWER SYSTEM - RCC PIPES**				
229	Supplying and laying underground R.C.C. pipes sewers with socket and spigot ends conforming to IS:458 of approved make, to proper grade and alignment, including earthwork in excavation in all types of soil except soft and hard rock for pipe trenches, etc. including dewatering, shoring and shuttering if necessary, dressing of sides, leveling, grading and ramming of bottoms, cutting the R.C.C. pipes to required lengths, lowering the pipes, jointing, including connecting the pipes to manholes and grouting the pipe body with manhole wall using cement mortar 1:2 (1 cement : 2 sand), testing, draining of water and cleaning of pipe after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness , watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, including cutting of roads wherever required and making good the same, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit etc. complete for all depths as per drawings, specifications and instructions of Engineer-in-Charge.(All material shall be supplied by contractor) For following Pipe size (mm) and Class(The following pipe sizes are all internal diameter of the pipes)				
230	(Dia (Internal) - 100 mm, Piping Material Class - NP2)	15	M	750.00	11,250.00
231	(Dia (Internal) - 150 mm, Piping Material Class - NP1)	15	M	1,250.00	18,750.00
232	(Dia (Internal) - 450 mm, Piping Material Class - NP2)	70	M	2,500.00	1,75,000.00
233	**UNDERGROUND SEWER SYSTEM-HDPE PIPES**				

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234	UNDERGROUND SEWER SYSTEM-HDPE PIPES :- Supplying and laying HDPE pipes conforming to IS:4984 of approved make to proper grade and alignment, including earthwork in excavation for trenches etc. in all types of soil except soft and hard rock including dewatering till completion of subsequent works, shoring and strutting, if necessary, dressing the sides, leveling, grading and ramming the bottom, jointing the pipes using hot plates as per manufacturer's recommendation, lowering, providing and laying 1:5:10 (1 cement : 5 sand : 10 aggregate) plain cement concrete of minimum 100mm thickness on bottom and side of pipe as directed, connecting the pipes to manholes and grouting the pipes to manhole/valve chamber walls, including supplying and fixing the specials and fittings, such as bends, reducers, tees, elbows, caps etc. conforming to IS:8008 or fabricated from pipes as per specification, supplying and fixing of flanges, fixing of online valves, including fixing of bolts, nuts and gaskets etc. as per specifications, testing, draining of water and cleaning of pipes after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness, watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit, cutting of road wherever required, making good the same etc. complete for all depths as per drawings, specification and instruction of Engineer-in- Charge. For the following nominal diameter (mm) Pressure Rating(Kg/Cm2). (Dia (Internal) - 80 mm, Pressure Rating - 2.5 Kg/sqcm)	50	M	2,000.00	1,00,000.00
235	**PLUMBING AND BUILDING DRAINAGE**				
236	Supplying and fixing approved quality Cast Iron soil/waste pipe conforming to IS:1729 below ground with necessary specials, bends such as Y-junction, T- junction (both single and double) including plugs, shoes, cowls, jointing with lead caulked joints and testing, cutting in floors, earth work in excavation, encasing the pipe in 50mm THK, PCC M20, backfilling and removal of surplus earth upto a lead of 50M etc. complete as per drawings, specifications and directions of Engineer-in-Complete				
237	100mm dia (All materials including cement supplied by contractor)	10	M	5,000.00	50,000.00
238	80mm dia (All materials including cement supplied by contractor)	10	M	5,000.00	50,000.00
239	**Supplying and fixing gun metal globe valve conforming to IS:778, complete as per specifications and directions of Engineer-in-Charge.**				
240	Dia - 50 mm	2	Nos	35,000.00	70,000.00
241	**Constructing of brick masonry valve chamber in 1:4 Cement mortar(1 cement: 4 sand) with CI frame & cover fixed on M-20 grade cement concrete , necessary excavation, M-20 grade foundation concrete, 13mm thick 1:3 cement plaster on inside & all exposed surfaces, backfilling, removal of surplus earth for all leads within the complex limit etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge. For following Valve size and Brick Class (All materials including Cement supplied by contractor)**				
242	Dia - 50 mm, Brick Class - 5)	2	EACH	35,000.00	70,000.00
243	Providing and fixing approved stone ware 100mmx100mm dia. gully trap as per tender specification, including grating with CI frame and cover 300mmx300mm including brick masonry (brick class shall be as mentioned below) chamber in 1:4 cement mortar(1 cement: 4 sand) on M-20 grade cement concrete foundation, plastered inside and outside surfaces with 1:3 cement mortar (1 cement: 3 sand) with 13mm average thickness including providing and fixing light duty CI frame and cover, painting CI frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat, earth work in excavation, backfilling, removal of surplus earth, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry etc. all complete as per drawings, specifications and directions of Engineer-in-Charge				
244	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	35,000.00	70,000.00
245	Construction as per(Design basis & general technical specification) of brick masonry (brick class shall be as mentioned below) inspection chambers/manholes of 750mmx750mm internal size 1000mm deep(Max.) in cement mortar 1:4 (1 cement: 4 sand) with CI frame and cover 500mm clear dia, (circular Medium duty of grade MD-10) conforming to IS:1726 fixed on RCC slab of M-30				
246	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	50,000.00	1,00,000.00
247	Construction, supplying, installation, testing and commissioning of septic tank as per standards and IS:2470 Part-I , with all necessary accessories like inlet, outlet vent pipes, manhole covers, rungs etc. including earthwork in excavation in all type of soil except soft and hard rock, backfilling and disposal of surplus earth for all leads etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge				
248	All material including cement supplied by contractor for (Users - 10 NOS)	1	Nos	50,000.00	50,000.00
249	**MISCELLANEOUS ITEMS**				

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TRACTEBEL engie	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Shree Balaji Engineering Services

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
250	Supplying and fixing in position entrance gate in complex boundary wall fencing manufactured out of steel frame work and square MS bars of 20 mm at 100 c/c and horizontal name plate band at lock rail level suitably hinged with box type steel post embedded in cement concrete i.e. providing the tension bar for smooth operation and locking arrangement etc. complete as per tender specification, including painting with two coats of anti-corrosive paint and two coats of approved aluminium/synthetic enamel paint etc. complete as per drawings, specifications and directions of Engineer-in-Charge.				
251	4.0M clear opening width of gate in two panels.	3	Nos	25,000.00	75,000.00
252	Supplying & Laying interlocking Paver Blocks for roads, footpaths and any other place etc. including providing 50 mm thick sand filling below Paver Blocks including compaction of sand layer, filling the joints by dry sand, providing precast kerb stone of PCC M-20 at edges, including preparation of compacted sub-grade etc. all complete as per drawing, standard and directions of Engineer-in-Charge. (All material including cement supplied by contractor, paver blocks shall confirm to IS: 15658. cloour and shape of paver block shall be as per owner requirements for following thickness of paver blocks				
253	**(Thickness - 60 mm)**	285	M3	1,000.00	2,85,000.00
254	Supply and installation on terrace, high density polyethylene drinking water circular tank as per IS:12701 and ISI marked including supply and installation of all fittings, cover with suitable locking arrangement, float valve, making necessary holes for inlet, outlet and overflow connection and vent pipe etc. and the base supports for tank including supply of all necessary material all complete as per specifications and directions of Engineer-in-charge. (Sintex or equivalent having valid ISI license) for following capacities.				
255	**capacity - 500 litre**	2	Nos	7,500.00	15,000.00
256	Supplying, installation, testing and commissioning of Upflow Anaerobic Filter with bleaching tank as per TE Std. Drawing with all necessary accessories like, Upstream inlet CI piping from septic tank, Downstream outlet RCC NP2 class piping up to surface storm water drains, CI pipes for filter chamber, CI valve, RCC pre-cast pit covers, steps, perforated pre-cast slabs etc., inlet chamber, Filter chamber, deluding chamber including earthwork in excavation in all type of soil including soft rock, backfilling with murrum or approved soil arranged by the contractor, disposal of surplus earth etc. complete as per drawings, specification and direction of Engineering-Charge (All materials including cement shall be supplied by the contractor, Brick Class lower than 5.0 shall not be used).	1	Nos	7,500.00	7,500.00
257	**DEMOLISHING AND DISMANTLING**				
258	**Brickwork**				
259	**Demolishing BRICKWORK** (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	500.00	5,000.00
260	**Demolishing BRICKWORK** (taking all necessary safety precautions) for all heights **above plinth level** including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	500.00	5,000.00
261	**RCC**				
262	**Demolishing RCC WORK** (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	750.00	7,500.00
263	**Demolishing RCC WORK** (taking all necessary safety precautions) for all heights **above plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	750.00	7,500.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Shree Balaji Engineering Services

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
264	**PCC**				
265	**Demolishing PLAIN CEMENT CONCRETE** work (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc. disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation and backfilling shall be paid separately under relevant items)	10	cum	750.00	7,500.00
266	**MISCELLANEOUS ITEMS (REFER TE SPECIFICATION)**				
267	**Sand Filling**				
268	Supplying and filling approved SAND of specified quality under floors, in foundations, plinths, tank foundations etc. for all depths and heights including cost of sand,royalties,transportation to site for all leads and lifts, including loading, unloading, spreading in layers of loose thickness not exceeding 150 mm,watering,ramming,compacting with mechanical compactors and/or other equipment to the specified levels to achieve 85% relative density as per IS:2720 Part XIV,including preparation of subgrade to the required slope, providing testing apparatus and testing the degree of consolidation all complete as per drawings, specifications and direction of Engineer-in-charge. The rates shall be inclusive of the cost of all labour,material,equipments etc. all complete .	100	cum	750.00	75,000.00
269	**SAND GRAVEL MIX**				
270	Supplying and filling sand gravel mix (1:1) with approved aggregate below road, RCC pavement, manholes, pits, foundations, bedding of UG piping etc. in layers of 150 mm loose thickness (maximum) including watering, ramming, rolling, compacting to achieve 85% relative density as per IS 2720 Part-XIV, quarrying, royalties, transportation, handling, etc. all complete as per drawings, specifications and directions of Engineer-in- Charge. (The rate shall be inclusive of the cost of all labour, material, equipment etc. all complete)	105	cum	750.00	78,750.00
271	**GROUTING WITH NON-SHRINKABLE COMPOUND**				
272	Providing and laying manually or by pumping at all positions a ready mix non-shrink cementitious grout of compressive strength specified below for specified works e.g. pipe support, base grouting of rotating equipment and other installation complete in all respects as per scope of work, detailed construction drawings , technical specifications and directions of the Engineer-In-Charge.				
273	Having compressive strength of 30 N/mm2 , Per bag of 25 Kg	100	Bags	50.00	5,000.00
274	Having compressive strength 45 N/mm2 , Per bag of 25 Kg	20	Bags	50.00	1,000.00
275	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains, SS trench of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.	7.5	m2	400.00	3,000.00
276	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, leve and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	13.5	cum	750.00	10,125.00
277	Providing and fixing factory made precast RCC **perforated drain covers**, having concrete of strength not less than M-25, of size 1000x450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos. cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of the Engineer-In-Charge.	515	EACH	600.00	3,09,000.00
278	**Borewell and recharge well**				
279	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job all complete as per drawing, direction of Engineer -in-charge, in all types of soil :	130	M	750.00	97,500.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
280	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge.	130	M	750.00	97,500.00
281	Providing and fixing Bail plug/ Bottom plug of required diameter to the bottom of pipe assembly of tubewell as per IS:2800 (Part-I). :150mm dia	3	EACH	1,000.00	3,000.00
282	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	1,000.00	5,000.00
283	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	1,000.00	5,000.00
284	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	11,000.00	55,000.00
285	Gravel packing in tubewell construction in accordance with IS:4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of the Engineer-In-Charge.	3	cum	1,000.00	3,000.00
286	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS:4270, of reputed & approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size dia having minimum wall thickness 5.00 mm	5	M	1,000.00	5,000.00
287	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	60	M	1,000.00	60,000.00
288	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/ 3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS:8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	25	M	1,000.00	25,000.00
289	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of 150 mm diameter	1	Nos	1,000.00	1,000.00
290	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS:2800 (Part-I), including necessary bolts & nuts of required size complete 150 mm diameter.	1	Nos	1,000.00	1,000.00
291	Supply, Installation and commissioning of 1.5HP Borwell Submersible Pump	1	EACH	1,000.00	1,000.00
292	Supply and Installation of 3Cx10Sqmm Copper Flat Cable	200	M	100.00	20,000.00
293	**LANDSCAPING**				
294	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment).	335	cum	200.00	67,000.00
295	Fine dressing of the ground.	1105	M2	50.00	250.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

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296	Providing & laying Selection no. 1 grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden and than rolling the surface with light roller make the surface smoothen and light watering the same maintenance for 30 days or more till the grass establish properly,as per direction of officer in charge	1105	M2	50.00	55,250.00
297	Conducting topographical ground/land survey in the specified area as shown in the tender drawings by conventional/GPS or any other standard method, covering details of physical features like Rivers, Nallahs, Lakes, Ponds, wells, pits, Forest, Trees, Roads, culverts, transmission lines, telegraph/ telephone and electric poles, underground or any other services, cross drainage works including cross sectional details of nallah etc. including establishing high flood level with source of information, identification of any monument, historical structure, wild life sanctuary in the vicinity, storm water disposal point with levels, cross-section details of nallah, recording spot levels, top level of nearest state highway or National Highway, including providing in tabulation girth wise no. of trees etc as specified, plotting and developing topographical contour maps, showing true north including establishing survey reference stations, key plan etc. including all equipment's, instruments, personnel's, clearing of bushes as per requirement for intervisibility to carry out survey work etc. , complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of drawings/map and supply of electronic files. Note: Survey work shall be carried out by survey agency approved by Contractor and sample spot witness of levels cordinates by PMC, and shall be submitted to PMC/Owner for review.Survey drawing will be provided in A0 size with clear visibility of all the spots/levels/ contoure and Bench marks. Permanaet bench mark will be stabished at site in a 450x450 mm size 600mm high bick masonry piller.	4220	M2	50.00	2,11,000.00
298	**GEO TECHNICAL INVESTIGATION (Z/02/0022)**				
299	Conducting soil investigation with boring including all field tests and laboratory tests, mobilization and demobilization of equipments & personnel etc. for soil investigation for each borehole location. complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of Reports & recommendations and supply of electronic files.	5	Nos	50.00	250.00
300	**ANTI-TERMITE TREATMENT**				
301	Supplying chemical emulsion in sealed containers including delivery as specified in the Technical Specifications.				
302	Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	200	LITRE	50.00	10,000.00
303	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
304	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc. as per Techinal specifications and direction of engineering in charge: With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	80	METRE	50.00	4,000.00
305	Treatment of soil under floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the floor:				
306	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	250	SQM	50.00	12,500.00
307	Supply and installation 60mm dia GI pipe for column support of gate	15	M	50.00	750.00
308	Supply and installation 100mm dia MS pipe	15	M	50.00	750.00
309	Supply and installation 50mm dia MS pipe	15	M	50.00	750.00
310	Supply and installation of U-PVC pipes (working pressure 4 kg / cm^2) Single socketed pipe 75 mm dia for weep holes	200	M	50.00	10,000.00
311	**Sub-Total Section C**				**8,08,22,375.00**
312	**SECTION-D [CATHODIC PROTECTION WORKS]**				
313	**CATHODIC PROTECTION SYSTEM**				

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314	**Cathodic Protection system**				
315	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning & Monitoring of the temporary cathodic protection [TCP] system using galvanic anodes to protect the external surface of the pipeline against soil-side corrosion for minimum 2 year or till commissioning of permanent CP system whichever is later . All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard drawings and vendor list as attached with this tender and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	2,00,000.00	2,00,000.00
316	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning of permanent cathodic protection system for 40 years. The scope of work also includes post commssoning surveys and repair of coating/ rectification of cathodic protection system based on the post commissioning surveys. In additon to the same, AC Interference study on the pipelines to be performed and mitigation measures takes to the satisfaction of Owner/ CONSULTANT. All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard and vendor list attached and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	2,00,000.00	2,00,000.00
317	**Sub-Total Section D**				4,00,000.00
318	**SECTION-E [ELECTRICAL WORKS]**				
319	**ELECTRICAL**				
320	**SWITCH BOARDS / UPS SYSTEM/ PANEL**				
321	Supply , Installation, testing and commissioning of LT Switch-boards, AC UPS system with UPS Distribution board & Ni-Cd Battery banks , distribution boards, cubicles with electrical equipment, misc. electrical panels etc., including transportation from store/yard to site at the place of installation, unpacking, assembly, including mounting and wiring of loose parts supplied by equipment vendor, interconnection of shipping sections and requisite inter-panel wiring between shipping sections, including supply of all wiring materials, installation on foundations or fixing to wall or steel structures, aligning, levelling, grouting, including all labour and materials, as per approved drawings, specifications of this tender and directions of Engineer-in-Charge.				
322	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted MEDB	1	Nos	5,000.00	5,000.00
323	Supply , erection , termination , earthing and commissioning of wall mounted OLDB as per single line diagram of DT stations	1	Nos	5,000.00	5,000.00
324	Supply , erection , termination , earthing and commissioning of wall mounted ILDB as per Single line diagram of DT stations	1	Nos	5,000.00	5,000.00
325	Supply , erection , termination, earthing and commissioning of wall mounted SSDB as per Single line diagram of DT stations	1	Nos	5,000.00	5,000.00
326	Supply , erection , termination , earthing and commissioning of wall mounted AC DB as per Single line diagram of DT stations	1	Nos	5,000.00	5,000.00
327	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 6 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of DT stations	1	SET	5,000.00	5,000.00
328	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for DT stations.	1	SET	5,000.00	5,000.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Shree Balaji Engineering Services

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
329	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 1 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of RT stations	1	SET	5,000.00	5,000.00
330	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for RT stations.	1	SET	5,000.00	5,000.00
331	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted Emergency DB	1	Nos	5,000.00	5,000.00
332	Supply , erection , termination , earthing and commissioning of 32A, 4P, 25kA Auto Change-Over switch as per Single line diagram of DT station-JHARIA	1	Nos	5,000.00	5,000.00
333	**POWER AND CONTROL CABLE**				
334	Supply , laying , termination , erection and testing of 1.1 KV Power and control FRLS PVC Outersheath, XLPE insulated, armored Cables . Outdoor cable will be laid in buried cable trench and in Indoor cable will be laid in Cable trench by provision of Cable tray and supports inside the trench as per PTS - Electrical package P.017110 G 11077 E002				
335	3.5C x 95 sqmm AL FRLS XLPE	300	M	450.00	1,35,000.00
336	3.5C x 70 sqmm AL FRLS XLPE	300	M	450.00	1,35,000.00
337	3.5C x 50 sqmm AL FRLS XLPE	50	M	450.00	22,500.00
338	3.5C x 25 sqmm AL FRLS XLPE	100	M	450.00	45,000.00
339	4C x 16 sqmm CU FRLS XLPE	100	M	450.00	45,000.00
340	3C x 2.5 sqmm CU FRLS XLPE	170	M	450.00	76,500.00
341	3C x 6 sqmm CU FRLS XLPE	250	M	450.00	1,12,500.00
342	4C x 6 sqmm CU FRLS XLPE	350	M	450.00	1,57,500.00
343	2C x 6 sq.mm CU FRLS XLPE	100	M	450.00	45,000.00
344	2.5 sqmm Cu. Wire	1800	M	450.00	8,10,000.00
345	6 sqmm Cu. Wire	600	M	450.00	2,70,000.00
346	**Earthing & Lightning**				
347	Supply , Installation , testing and comissioning of GI Earth electrodes & Cu plate type earth pit complete with earth pit as per IS 3043, PTS-Electrical package and all necessary material including exacavation of earth pit , filling with charcol and salt , back filling, brick work , connections including all labour and materials as approved drawing and specification of this tender and direction of Engineer-In charge.				
348	GI Earth Electrodes				

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349	65mm dia x 3000 mm L GI pipe electrode type Earth pit	17	Nos	500.00	8,500.00
350	**Cu plate Earth Electrode**				
351	600x600x3mm Cu plate type Earth pit	8	Nos	500.00	4,000.00
352	**Earth strip and wire**				
353	50x 6 mm GI Flat strip	850	M	200.00	1,70,000.00
354	25 x 6 mm Cu Flat strip	50	M	200.00	10,000.00
355	2.5 Sqmm Cu wire	250	M	200.00	50,000.00
356	25 x 6 mm GI Flat strip	200	M	200.00	40,000.00
357	10 Sq.mm earthing cable	250	M	200.00	50,000.00
358	GI Earth Bus 50x 6 Sq.mm with all installation assesories	3	Nos	200.00	600.00
359	Cu. Earth Bus 50x 6 Sq.mm with all installation assesories (in control room)	4	Nos	200.00	800.00
360	25x3 mm GI Flat for Lightning as well as down conductors for DT station as per overall earthing layout and GGNG-E-20713-3007	80	M	200.00	16,000.00
361	Other lightning assesories like 20mm dia copper rod, hollosphere ,200x200x6mm ms plate ,anchor/fastner ,test links for DT station as per overall earthing layout and GGNG-E-20713-3007	1	LOT	200.00	200.00
362	**OUTDOOR Lighting**				
363	Supply , erection , Testing & commissioning of Outdoor area lighting system including with supply of flameproof / weather proof light fixture , pole , junction box and earthing including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender & Overall outdoor lighting layout of DT & RT station and directions of Engineer- In charge.				
364	100W FLP LED Fixture & FLP Junction box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	4	Nos	10,000.00	40,000.00
365	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	2	Nos	10,000.00	20,000.00
366	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in RT Stations.	7	Nos	10,000.00	70,000.00
367	1x160W FLOOD LED Fixture with weather proof junction box & 9 mtr high pole with all assesories for open area	6	Nos	10,000.00	60,000.00
368	1x70 W Solar type Street LED Fixture with weather proof junction box, VRLA Battery (72 hrs backup time) & 9 mtr high pole for street lighting	4	Nos	10,000.00	40,000.00
369	1x27 W Post Top Lantran LED Fixture for Gate with weather proof junction box for Gate lamp	2	Nos	10,000.00	20,000.00

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370	1x36 W LED industrial fixture suitable to building parapet /wall with all assesories like weather proof junction box/clamp/reducer/	2	Nos	10,000.00	20,000.00
371	**INDOOR Lighting**				
372	Supply, erection, Testing & commissioning of Indoor building area lighting system including with supply of light fixture, point wiring including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender and directions of Engineer- In charge.				
373	2x20 W LED recessed decorative fixture for control room	5	Nos	5,000.00	25,000.00
374	2x20W LED Industrial Fixture for Electrical room	2	Nos	5,000.00	10,000.00
375	1x40W LED Flameproof Fixture for Battery room	1	Nos	5,000.00	5,000.00
376	2x18W LED Industrial Fixture for Varanda/Toilet/ water cooler area/ Guard room	6	Nos	5,000.00	30,000.00
377	1x36W LED Industrial Fixture	4	Nos	5,000.00	20,000.00
378	2x20 W LED recessed decorative fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) control room.	2	Nos	5000	10,000.00
379	2x20W LED Industrial Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Electrical room	2	Nos	5,000.00	10,000.00
380	1x40W LED Flameproof Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Battery room	1	Nos	5,000.00	5,000.00
381	**Switch socket**				
382	Supply and Installation of single/ three phase Switch socket as per Indoor Illumination layout for DT & RT and PTS-Electrical Package and directions of Engineer-In Charge				
383	5/15A surface type switch socket (1 Ph)	7	Nos	1,000.00	7,000.00
384	5A flush type switch socket (1 Ph)	4	Nos	1,000.00	4,000.00
385	16A Switch socket (I Ph)	3	Nos	1,000.00	3,000.00
386	20A Switch socket for AC (1 Ph)	4	Nos	1,000.00	4,000.00
387	Flame proof Junction box for Exhaust fan in Battery room	2	Nos	1,000.00	2,000.00
388	32A Switch socket for welding receptacles (3 Ph)	1	Nos	1,000.00	1,000.00
389	Modular switch board	12	Nos	1,000.00	12,000.00
390	**FANS and Exhaust FAN**				

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391	Supply ,Installation and testing of Ceiling Fan and Exhaust fan with louvers including all labours and materials as per Indoor Illumination layout for DT and PTS-Electrical Package and directions of Engineer-In Charge				
392	Ceiling Fan 230V AC 1200 mm sweep	3	Nos	15,000.00	45,000.00
393	450 mm FLP Exhaust Fan for Battery room	2	Nos	15,000.00	30,000.00
394	200 mm Exhaust Fan for Toilet	1	Nos	15,000.00	15,000.00
395	300 mm Exhaust Fan for Electrical room/ CO2 room	3	Nos	15,000.00	45,000.00
396	**Air conditioning unit**				
397	Supply ,Installation and testing of Five star 1.5 Ton Split AC with outdoor compressor unit including all labours and materials as per Typical Indoor Illumination layout for DT and directions of Engineer-In Charge				
398	Split Air condition Five star 1.5 Ton	4	Nos	75,000.00	3,00,000.00
399	**Hardware and other Accessories**				
400	Supply and Installation of Hardware and other accessories including all labours and materials as per Tender specification PTS-Electrical Package P.017110 G 11077 E002 and directions of Engineer-In Charge				
401	Rubber mat	15	M	1,000.00	15,000.00
402	Rubber hand gloves	1	PAIR	1,000.00	1,000.00
403	Warning Marker	1	Nos	1,000.00	1,000.00
404	PVC Conduit with bend ,tee and other required assesories	1	LOT	1,000.00	1,000.00
405	CAUTION Board & Sock treatment chart	1	Nos	1,000.00	1,000.00
406	Cable route marker as per Standard drawing TE-IN-STD-G-0327	1	LS	1,000.00	1,000.00
407	Fire extingusher and SAND Bucket with Stand	1	SET	1,000.00	1,000.00
408	Ladder type Cable tray - hot dip Galvanized Prefabricated 450 mm wide	55	MTR.	1,000.00	55,000.00
409	Perforated type Cable tray hot dip Galvanized Prefabricated 450 mm wide	35	MTR.	1,000.00	35,000.00
410	Cable Glands				
411	Cable Glands : Flame proof IIA/IIB double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				

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412	Cables with upto OD 20 mm & above OD 20 mm as per Single line diagram of DT & RT station	1	LOT	10,000.00	10,000.00
413	Cable Glands : Weather proof double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
414	Cables with upto OD 20 mm to 40 mm as per Single line diagram of DT & RT station	1	LOT	10,000.00	10,000.00
415	**Sub-Total Section E**				**32,43,100.00**
416	**SECTION-F [INSTRUMENTATION WORKS]**				
417	**INSTRUMENTATION**				
418	**SUPPLY**				
419	Supply of Pressure Transmitter along with 2 valve manifolds with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	5,000.00	25,000.00
420	Supply of Pressure gauge including high range along with 2 valve manifolds with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	18	Nos	5,000.00	90,000.00
421	Supply of Pressure gauge including Low Range along with 2 valve manifolds, gauge saver with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	3	Nos	5,000.00	15,000.00
422	Supply of temperature element (RTD) along with flanged thermowell mounted for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	5,000.00	25,000.00
423	Supply of Temperature Transmitter with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	7	Nos	5,000.00	35,000.00
424	Supply of skin type temperature element (RTD) for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I003), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	2	Nos	5,000.00	10,000.00

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425	Supply of Local control panel with all accessories as per Data sheet (P.017110 G 11087 I011), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, SAT of local control panel,supports/ frame fabrication, earthing and screwing plug for unused entries, painting and integration with RTU. Termination of all Other panel SCADA hard wired signal including RS-485 signals through LCP for RTU/SCADA by Bidder. 1. Digital Barriers 2. Analog Barries 3. Relays 4. three poisition selector switch 5. LED indication lamps 6. Push buttons 7. terminal blocks 8. internal wiring 9. MCBs 10. Door switches 11. cooling Fan 12. LED lights	2	Nos	2,00,000.00	4,00,000.00
426	Supply of Ex-proof junction box with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, iincluding Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.	4	Nos	20,000.00	80,000.00
427	Supply of Corrosion Monitoring system with corrosion coupon, Corrosion probe, transmitter and digital indicator (mounted in LCP) as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
428	Corrosion coupon along with accessories.	2	Nos	10,000.00	20,000.00
429	Corrosion probe along with transmitter, digital indicator, barriers and accessories.	2	Nos	10,000.00	20,000.00
430	Supply of Conventional Type Microprocessor based fire detection system along with smoke detector, heat detector, cabinet, manual call point, Independent 24 Hrs battery backup with 15 min in alarm state, repeater panel and Electrical Operated Siren, exit signs and cables fromsensor ,MCP, siren, hooter to controller as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
431	Controller along with cabinet along with cabling	1	Nos	5,000.00	5,000.00
432	Multisensor (smoke & heat)	10	Nos	5,000.00	50,000.00
433	WP IP 65 Manual call points	6	Nos	5,000.00	30,000.00
434	Ex Proof and WP IP 65 Manual call point	1	Nos	5,000.00	5,000.00
435	WP Hooter & Flasher	1	Nos	5,000.00	5,000.00
436	Repeater panel	1	Nos	5,000.00	5,000.00
437	Exist sign	6	Nos	5,000.00	30,000.00
438	Electrical siren Exd	1	Nos	5,000.00	00.00

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439	24 Hrs battery backup	1	Nos	5,000.00	5,000.00
440	Supply of Conventional type gas detection system along with controller, ex proof point gas detectors, beacon hooter, flasher, , cabinet, portable gas detector, calibration kit, alignment kit as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
441	Controller with cabinet	1	Nos	5,000.00	5,000.00
442	Point gas detectors	12	Nos	5,000.00	60,000.00
443	Panel Mounted hooter	2	Nos	5,000.00	10,000.00
444	Dual tone Hooter & Beacon Ex"d" with reset push button	2	Nos	5,000.00	10,000.00
445	Portable gas detecotrs	1	Nos	5,000.00	5,000.00
446	Calibration kit	1	Nos	5,000.00	5,000.00
447	Ex d Junction Box	2	Nos	5,000.00	10,000.00
448	Supply of Universal type Hand Held Configurators for transmitters with carrying case, rechargeable batteries (one working and one standby), and battery charger as per Data sheet,PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work	1	Nos	10,000.00	10,000.00
449	Supply of Instrumentation signal cable, control cable, communication cable/LAN cable, Power cables along with all sizes cable glands (WP & Exd), PVC hood, lug, ferrule, etc including Cable laying (buried as well as tray) along with termination, glanding, meggering and loop checking including supply of ferrule, lugs, cable tie, cable clamp, cable marker etc. as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.				
450	1Px 1.5mm2	500	MTRS.	100.00	50,000.00
451	12Px 0.5mm2	900	MTRS.	100.00	90,000.00
452	1Qx1.5mm2	30	MTRS.	100.00	3,000.00
453	12Tx1.5mm2	200	MTRS.	100.00	20,000.00
454	1Tx1.5mm2	180	MTRS.	100.00	18,000.00
455	6Px0.5mm2	200	MTRS.	100.00	20,000.00
456	2Px1.5mm2	200	MTRS.	100.00	20,000.00
457	Cat 5 (LAN)	160	MTRS.	100.00	16,000.00
458	3C x 2.5mm2	240	MTRS.	100.00	24,000.00

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459	Supply & laying of Instruments cable tray with tray cover (Branch Cable tray (50mm x 50mm), Main cable tray 900 mm, cable tray 300mm, cable tray 150 mm.) as per requirement, instruments/ PGD, CCTV/ mounting poles, instrument protection sun sheds, angles, channels, MS plates & all the erection materials and as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including installation of support, cable clamping, installation of tray cover and support painting.	1	LS	1,00,000.00	1,00,000.00
460	Supply , installation & laying of tubes and fittings as per requirement and as per PTS-Instrumentation with appendices and Scope of Work C&I. SS 316L TEE (1/2", Class 3000#, Screwed, NPTF, Seamless) ,SS316L GLOBE/BALL VALVE (1/2", Class 800#, Screwed, NPTF, Seamless), SS316L PLUG (1/2", Screwed, NPTM, Hex head, class 3000#), SS316L PIPE NIPPLE (½" NPTM, seamless, schedule #160) Length of the pipe nipple as per requirement, SS316L MALE CONNECTOR (1/2" OD x 1/2" NPTM), SS316L FEMALE CONNECTOR (1/2"OD x 1/2" NPTF), SS316L UNION (1/2" OD), SS316L TUBE (1/2" OD x 0.065" WT), SS316L TUBE (1/4" OD x 0.035" WT)	1	LS	1,00,000.00	1,00,000.00
461	Supply of mandatory spares as per Mandatory Spare (P.017110 G 11075 I001)	1	LS	1,00,000.00	1,00,000.00
462	AT Jharia - Installation of metering skids, metering cabinet under the supervision of skid supplier, cable laying and terminal of cable from skid junction box to metering system cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	1,00,000.00	1,00,000.00
463	At Jharia Installation of gas chromatograph skid, analyser & controller cabinet under the supervision of skid supplier, cable laying and terminal of cable from analyser cabinet to controller cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	1,00,000.00	1,00,000.00
464	At Jharia Installation of H2S & Moisture analyser skids, cabinet under the supervision of skid supplier, laying and terminal of cable from skid field mounted cabinet to LCP/RTU. Including supply of all the required erection, fabrication and civil materials.	1	LS	1,00,000.00	1,00,000.00
465	At SV 28 Spare Input output available in existing RTU, internal wiring at site, field connection, configuration and commissioning., interfacing with LCP and configuration of new parameters in existing RTU, as per Scope of Work.	1	LS	1,00,000.00	1,00,000.00
466	**Sub-Total Section F**				**19,36,000.00**
467	**SECTION-G [TELECOM WORKS]**				
468	Supply Telecommunication system, SDH equipment STM-4 Based SDH Cabinet of (2000H x 800W x 800W along with 100 mm base frame) as per below configuration: - 2*STM-4 + 2*STM-1 + 8FE ports as per PTS-Telecommunication system (P.017110 G 11077 I002), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including erection, testing, integration with existing NMS at Noida, Commissioning and integration with existing telecom system at SV 28 additional SFP of L4.2 for SV 28 connectivity	1	Nos	10,000.00	10,000.00
469	Supply of CCTV-IP based Fixed colour camera and PTZ colour camera along with power cable, communication cable at each station as per PTS-Telecommunication system (P.017110 G 11077 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work., including erection, testing, integration with existing VMS at Noida, Commissioning and integration with existing telecom system at SV 28				
470	Fixed Camera WP IP65	1	Nos	5,000.00	5,000.00
471	PTZ camera WP IP65	1	Nos	5,000.00	5,000.00
472	Supply of one Analog phones control room, one number in guard room and one number WP IP66 in field safe area as per PTS-Telecommunication system (P.017110 G 11077 I002) , PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work				
472	Analog Phone	2	Nos	5,000.00	00.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Shree Balaji Engineering Services

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
474	Analog Phone Ex Proof WP IP 65	1	Nos	5,000.00	5,000.00
475	FXO cards	1	Nos	5,000.00	5,000.00
476	FXS	1	Nos	5,000.00	5,000.00
477	Five pair armoured telephone cable, size 0.5mm2	100	MTR.	100.00	10,000.00
478	AT Jharia- Free issue RTU by GAIL: Transportation from Gail store to site location, installation, cabling from LCP to RTU, commissioning etc. Erection, installation of RTU inside the station control room including supply of all the required erection materials, fabrication and civil works	1	LS	5,000.00	5,000.00
479	At SV 28 Spare Input output available in existing RTU, internal wiring at site, field connection, configuration and commissioning., interfacing with LCP , cable laying from LCP to RTU, and configuration of new parameters in existing RTU, as per Scope of Work.	1	LS	5,000.00	5,000.00
480	**Sub-Total Section G**				**65,000.00**
	Total of Section A + B + C + D + E + F + G				**12,95,30,675.00**
479	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Total of Section A + B + C + D + E + F + G above	18	percentage	18	2,33,15,521.50
480	Rate of Extended Stay Compensation per month beyond the time schedule and grace period mentioned in Bidding document for reasons solely attribute to Owner (exclusive of GST) Notes:- 1;- Extended Stay Compensation shall be loaded on the quoted price as per evaluation methodology. 2;- In case, no rate for extended stay compensation is stipulated, it will be considered that extended stay compensation is not required by the Bidder and the rates quoted by them shall be valid till completion of works in all respects.	1	Nos	5,00,000.00	5,00,000.00
481	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Extended Stay Compensation at Sl. No. 480 above	18	percentage	18.00	90,000.00
	Grand Total				15,34,36,196.50

Prepared

Checked

Approved

TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Tolani Projects Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
				UNIT RATE	TOTAL RATE
1	**SECTION-A (MAIN LINE WORKS)**				
2	**CH.0.00 KM to CH.5.667 KM**				
3	**MAINLINE, PIPING AND MECHANICAL**				
4	PIPELINE LAYING / INSTALLATION Laying/ installation of coated line pipe, associated fittings and accessories, etc. as per specifications, drawings, other provisions of Contract and instructions of Engineer-in-Charge, including but not limited to carrying out the following: "Receiving and taking-over", handling, loading, transportation and unloading of Owner supplied coated and bare line pipes and other Free Issue Materials from Contractor's own stock-yard to Work site including stringing on the pipeline Right-of-Use (ROU), Arrangement of all additional land required for Contractor's storage, Performing the additional survey wherein survey data is not sufficient in the opinion of Contractor, arrangement of working RoU if RoU width is not sufficient for equipment/ vehicle movement etc., access for construction (other than Owner provided ROU; Developing necessary access way to the worksite, including earth filling, levelling, etc.; supply of all materials (except Owner supplied materials), supply of all materials, consumables, equipment, labour, etc.; fabrication, Staking and installation of construction markers, clearing, grubbing, grading (as required) of Right of Use; clearing and grading of ROU; Cutting/ uprooting of shrubs, plants, vegetation within ROU; , Trenching to all depths and to a width to accommodate the pipeline with optical fiber cable (inside HDPE Duct) by excavation in all types of soil (in case of hard rock, additional payment for hard rock breaking will be paid as per separate SOR line item), including additional trenching for seismic and other areas as specified,(Rate for laying of optical fibre cable and HDPE Duct not be included here and same to be quoted against separate SOR item); Carrying out repairs of pipe and coating defects not attributable to Owner; Thorough internal cleaning of all pipes by suitable methods to remove debris, shots, grits etc.; Stringing of line pipes along ROU including providing straw bags, soft padding/sand padding; Aligning, cold field bending, cutting and beveling (as required) of pipes for welding and field adjustments, NDT & NDT of re-beveled area, welding, carrying out destructive & non- destructive testing of welds required as per approved NDT specifications (including radiography) and providing all requisite equipment, labour, supervision, materials, films, consumables etc.; carrying out repairs of weld joints as required, carrying out re- radiography and other non-destructive tests on repaired joints, etc.; Installation of carrier pipe including concrete coated pipes (wherever required).				
5	(Concrete Coating on pipes, covered separately) at all crossings including roads/ canals/ nala/ water crossings etc. (supply and installation of casing pipe by open cut or by Jacking/ boaring method covered separately) including pre-testing as required; Carrying out installation of carrier pipe in the casing pipe at cased crossings; Coating of all field weld joints, long radius bends (fabrication of Cold field bends covered here and fabrication of 6D bends by induction heating covered separately), buried fittings etc.; Supply & Installation of warning tape along the entire length of Pipeline including Crossing. Lowering the pipelines in trench, providing required padding over and around the pipeline with sand/graded material (in rocky areas), backfilling with available approved excavated material and/or other suitable soil (supply and providing of soft soil for pre & post padding in Rocky area); Supply and installation of slope breaker as per specifications and drawings in steep slope areas, wherever required; Carrying out hydrostatic testing including air cleaning, flushing, filling, gauging, pressurization of complete pipeline in various test sections as approved by Engineer-In-Charge to the specified test pressure, providing all equipment, pumps, fittings, instruments, dead weight tester, all types of pigs etc., and services, supervision, labour, consumables, arranging water required for hydrostatic testing including supply of corrosion inhibitor, air, etc. as required, locating of leaks and rectification of defects attributable to Contractor, re-testing after rectification, successful completion of hydro-testing of pipeline (De-watering covered else where in the SOR); including all tie-in(s) with the pipeline/ piping installed by others including cutting of test header, re- beveling as required; Carrying out all temporary, ancillary, auxiliary works and all incidental works required to make the pipeline ready for pre- commissioning; Carrying out EGP for the entire stretch of completed pipeline, Repair of defects recorded during EGP/gauge plate run or otherwise including cutting, beveling, welding, NDT, field joint coating etc.; as applicable, Final clean-up and restoration of right of use including obtaining NOC from respective statutory authorities as required and disposal of debris and returning all surplus material to designated disposal areas/storage yard, as directed by Engineer-In-Charge; Restoration of land, facilities and boundary wall etc. at associated facilities dismantled/damaged by the Contractor during construction; Obtaining work permits/ NOC from various statutory authorities having jurisdiction and complying with all stipulation/conditions/recommendation of the said authorities; Preparation of as-built drawings, pipe-book and other records. SOR shall be read in conjunction with Project drawings, scope of work, specifications, standards and other provisions of contract document. The work includes the Survey data & site preparation, Stringing/Chainges in direction, Beveling of pipe element, Welding Procedure Qualification & Welders Qualification, Welding of pipe element, Inspection & testing of production welds, Field joint coating, controlled blasting, chiseling, etc., Material hand over & material handling, Lowering-in & ballasting, All crossings except HDD as mentioned in Crossing List (including installation of carrier pipe inside the Casing at cased crossing), Backfilling (for all depths in all types of soil, soft /hard rock), including trench padding with sand, graded earth in rocky areas & rock shield(if required as per specs) reinstatement				
6	All above works shall be executed in accordance with scope of work, GTS, PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. 1. Supply and Installation of OFC and HDPE Ducts along the entire pipeline route, adjacent to the new pipeline, along with all required accessories, fittings and associated items, is covered separately in the SOR. All above works for buried pipeline (including hook-up pipeline from Tap Off Point inside ONGC GCS, Jharia upto proposed plot for GAIL DT), as per following details :				
7	ND 8", API5L X60 - 6.4 mm	4250	M	2,070.00	87,97,500.00
8	ND 8", API5L X60 - 7.1 mm	1588	M	2,160.00	34,30,080.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Tolani Projects Pvt. Ltd.

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9	Concrete slabs (Mechanical Protection) as per technical specifications Supply, fabrication and installation of reinforced concrete weights. Reinforced steel size should be 8 mm. top and bottom at a rate of 200 mm c/c of precasted RCC 1:2:4 on pipeline of wall thickness of 75 mm thick and size as per specifications & Standard drawings and instructions of Owner/ Owner's representative including supply of consumables, materials, equipment, labor, supervision, all associated civil works.	110	M	810.00	89,100.00
10	Continuous Concrete Coating Supply of all consumables and materials, equipments, manpower, submission of application procedure with calculations for anti-buoyancy, design mix procedure qualification and application of continuous concrete weight coating thickness mentioned below (higher also, in case design requirements) on pipeline of all thickness, concrete weight coating of the field joints thereof, and performing all works as per specifications and instructions of Owner/Owner's representative and other provisions of CONTRACT DOCUMENT.				
11	25 mm thick	12	M	3,600.00	43,200.00
12	30 mm thick	12	M	4,500.00	54,000.00
13	GEO TEXTILE BAGS FOR ANTI-BUOYANCY				
14	Additional works over and above item no. 4 to 8 for design, manufacture and supply of Non-biodegradable geo-textile bags and installation of geo-textile bags duly filled with gravel/ stone ballast on pipelines of all wall thicknesses for anti-buoyancy, drawings, scope of work and instructions of Engineer-in-Charge and other provisions of the Contract document.				
15	ND 8" (for all thicknesses)	12	M	1,800.00	21,600.00
16	Permanent Markers Supply, fabrication and installation of following types of permanent markers along the pipeline route including all associated civil works such as excavation in all types of soil, construction of pedestals and grouting with concrete, clearing, supply & application of approved color and quality of primer and paint, stencil letter cutting for numbers, direction, chainage, etc. restoration of area to original condition and performing all works as per drawings, specifications and instruction of Owner/Owner's Representative.				
17	Pipeline Warning Signs	14	Nos	9,000.00	1,26,000.00
18	Right-of-way boundary markers	22	Nos	1,800.00	39,600.00
19	Kilometer Markers	4	Nos	9,000.00	36,000.00
20	Aerial Markers	1	Nos	13,500.00	13,500.00
21	Directional Markers	69	Nos	7,200.00	4,96,800.00
22	Repair of Defects in Pipe Coating (Attributable to OWNER)				
23	Repair of Line Pipe Coating: Supply of all coating repair materials as per the requirements of the relevant specifications, supply of all consumables, utilities, equipment, and all manpower required, pipe cleaning and surface preparation, repairing of coating defects (resulting in holiday in coating) and testing including all handling, transportation, etc. for line pipes, performing all works necessary for the completion of the works strictly in accordance with the relevant specifications and instructions of OWNER.				
24	Repair of Holidays in Coating	20	Nos	450.00	9,000.00
25	Repair of Cosmetic Defects in Coating: Description of same as in item no 23 above, but for repair of cosmetic defects in coating.	30	m3	90.00	2,700.00
26	**Repair of Defects in Line Pipes**				
27	Repair of OWNER supplied pipes of all wall thicknesses, recorded at the time of taking-over by CONTRACTOR at all places of work.				
28	Cutting and rebevelling	15	Nos	540.00	8,100.00
29	Jack out method	15	Nos	540.00	8,100.00

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M/s. Tolani Projects Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
30	All works for locating burst (occurred during hydrostatic testing and tightness test attributable to Owner issued materials) including detecting burst, necessary repairing/replacing defective pipe lengths, including cutting out and removing the defective pipe, pretesting the replacement pipe, welding of replacement pipe into mainline and NDT of welding, repair and re-testing of defective welds, coating of welded joints, cleanup, retesting including providing all labor, materials, consumables and inputs other than OWNER supplied materials and performing all works as per drawings, specifications and directions of Owner/ Owner's representative. In case of pinhole leaks not easily detectable all works for locating leak (occurred during mechanical resistance test and tightness test attributable to Owner issued materials) including detecting leak, The Payment will be made as per actual efforts and based on Equipment and manpower Rate provided in SCC . Further replacement & retesting will be paid as above.	2	Per burst	9.00	18.00
31	LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER) (FOR TERMINAL PIPING) LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER DUE TO FIM) All works for leak/burst (occurring during hydrostatic testing) by necessary repair/replacement of defective pipe length, including cutting and removing out defective pipes, welding, NDT of welds, repair and re-testing of defective welds, painting of welded joints, clean-up, re hydro testing of the pipe segment including providing all necessary equipment, labour, materials, consumables and inputs other than Owner supplied materials and performing all works as per drawings, scope of work, specifications, standards enclosed with the Contract and directions of Engineer-in-Charge. Note: 1. This rate shall be applicable for manufacturing defects in Company supplied materials only.	6	Inch-meter	9.00	54.00
32	IDLE TIME PRESERVATION OF PIPELINE Preservation of complete pipeline and associated facilities and its maintenance including supply of all consumables, all equipment, man- power, etc., complete as per the requirements of specifications, scope of work, standards, other provisions of Contract document and instructions of Engineer-in- Charge. By filling and pressurizing with nitrogen including supply and maintenance of nitrogen as per following details:				
33	Pipe OD - 8 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - 3 MONTH	6030	M	36.00	2,17,080.00
34	Pipe OD - 8 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - FOR EVERY ADDITIONAL MONTH BEYOND INITIAL 3 MONTHS	6030	M	18.00	1,08,540.00
35	**PRE-COMMISSIONING FOR NATURAL GAS PIPELINES SYSTEM, Carrying out pre-commissioning activities and pre-commissioning checks to the specified acceptance criteria, making the entire pipeline system ready for commissioning (It includes cleaning including magnetic cleaning, Electrical Geometrical Pigging survey, dewatering, swabbing,, pre-drying activity, Golden-tie ins connecting the stations),, supply of all equipment, man-power, consumables, including all type of pigs and required quantity of nitrogen, materials for all temporary works and performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.**				
36	Pipe OD - 8 INCH	6030	M	117.00	7,05,510.00
37	**Commissioning Assistance**				
38	OVERALL COMMISSIONING OF ENTIRE PIPELINE SYSTEM Overall commissioning including system checks, inertisation (as required) and charging of entire pipeline system, including all stations and all associated facilities including notifying the Company that the pipeline system is ready for commissioning; Review of status jointly with the Company and obtaining final clearance for start of commissioning; Development and submission of commissioning procedures, obtaining Company approval thereupon, carrying out overall commissioning of the total pipeline system including all facilities and all necessary coordination/ liaison with other Contractor(s) operations; Carrying out commissioning; Supply of all equipment like Nitrogen vapourisers (as required), along with all piping and instruments, temporary venting/ flaring/draining facilities as applicable, man-power, consumables including pigs and required quantity of Nitrogen (as required); Performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.				
39	Pipe OD - 8 INCH	6030	M	18.00	1,08,540.00
40	PIPELINE INFORMATION MANAGEMENT SYSTEM Providing pipeline information management system using web based software for monitoring pipeline construction progress and providing all "As Built" data & drawings for entire length of pipeline as per specifications enclosed with the tender document.	1	LS	29,70,000.00	29,70,000.00
41	VIDEO FILM & PHOTOGRAPHY OF CONSTRUCTION ACTIVITIES Preparation of high resolution video films with audio commentary and Industrial photography covering all aspects/activities of pipeline construction annotated as required, conversion of same to video DVD/Blue Ray format, submitting three (3) sets of the same as per details in scope of work document	1	LS	3,60,000.00	3,60,000.00
	FABRICATION OF LR BENDS :				

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43	Fabrication of 6D bend / LR (Induction) bends as per the relevant standard & Specification attached with the tender document from free issue linepipes (mother pipe) including but not limited to the following: "Receiving and taking over of free issue linepipes" from GAIL Dump Yard location as mentioned in Scope of Work, carrying out inspection of line pipe at the time of receive taking over in the presence of Company representative, carrying out repair of pipe defects attributable to Contractor after taking over, including supply of consumables & equipments; handling, hauling, transportation and loading/unloading required to transport the mother pipes between place of issue, LR bend fabricator/ manufacturer, intermediate storage as required, and final delivery of fabricated LR Bends to the worksite(s), as per requirement, Manufacturing/ fabricating of LR Bends, as per project requirements and Specifications. LR bends exact angle(s) shall be as per pipeline alignment. Note:- 1. Rate for repairing of defects in linepipes identified and recorded at the time of receiving & taking over i.e. defects attributable to Company shall be quoted separately in the applicable items of the SOR. 2.Loading of Pipe into installation contractor trailer shall be carried out by the GAIL Dumpyard maintenance agency already engaged by the Company.				
44	Bare Pipe ND 8", API5L X60 - 6.4mm	8	Nos	63,720.00	5,09,760.00
45	Bare Pipe ND 8", API5L X60 -7.1 mm	15	Nos	67,320.00	10,09,800.00
46	**SUPPLY AND INSTALLATION OF CASING PIPE & 6 INCH CS CONDUIT:** Supply and installation of casing pipe and 6 inch CS conduit for OFC by jacking / boring or open cut for rail, road or canal crossings wherever required in all types of soils and terrain separately for carrier pipes and fibre optic cable inside HDPE duct, supply of casing pipes and all other Contractor supplied materials viz. casing insulators and casing end seals as per enclosed drawing, materials for casing vents and drains, etc. including transportation, supply of all other materials, equipments, consumables, man-power, welding including visual inspection of all weld joints, installation of casing insulators, end seals, vents and drain-off pipes, backfilling and restoration as original of the facility crossed and performing all works as per drawings, specifications including PTS and GTS and instructions of Engineer-in Charge and provisions of Contract document.				
47	Supply and installation of Casing pipe by Boring / Jacking as per item no. 46 (Railway crossing) Casing Pipe Details: (Pipe 14" , 8.7 mm Thick, API 5L GR.B)	200	M	21,600.00	43,20,000.00
48	Supply and installation of Casing pipe by Boring / Jacking as per item no. 46 (Other than Railway Crossings) Casing Pipe Details: (Pipe 14" , 6.4 mm Thick, API 5L GR.B)	12	M	27,000.00	3,24,000.00
49	Supply and installation of 6 inch CS Conduit by Boring/Jacking as per item no. 46 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	200	M	9,000.00	18,00,000.00
50	Supply and installation of Casing pipe by open cut as per item no. 46 Casing Pipe Details: (Pipe 14" , 6.4 mm Thick, API 5L GR.B)	12	M	14,400.00	1,72,800.00
51	Supply and installation of 6 inch CS Conduit by open cut as per item no. 46 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	12	M	6,300.00	75,600.00
52	**HDD CROSSING**				

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53	**Generalities**				
54	Topographic / Bathymetry, Geotech Investigation and Hydrological data collection				
55	Site preparation				
56	Design & stress calculations as per requirement				
57	Material hand-over and material handling				
58	Site reinstatement				
59	Final dossier including all notes & calculations as required in the specification				
60	***Installation of 6 inch CS Conduit***				
61	Teletransmission--Separate Drilling for 6 inch CS Conduit for OFC installation				
62	Installation of HDPE duct & OFC cable inside 6 inch CS conduit				
63	Drilling & Pulling of 6 inch CS Conduit shall be done before mainline HDD.				
64	***Pipeline string***				
65	Beveling & welding				
66	Inspection & testing of welds				
67	Field joint coating				
68	Temporary support (roller)				
69	Control of pipeline string				
70	Hydrotesting & leak test				
71	***Drilling operation***				
72	Earthwork entry / exit points including grading erection of embankment etc..				
73	Supply & clearing out of all material needed for drilling				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Tolani Projects Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
74	Drilling of washer pipe, reaming & cleaning of drill opening, supply and preparation of bentonite				
75	Pull back of the pipe string				
76	Disposal of surplus of soil & bentonite				
77	Control of the integrity of the coating				
78	***Work at entry point***				
79	Changes in direction				
80	Beveling & welding				
81	Inspection & testing of welds				
82	Field joint coating & coating of all bare section of pipe				
83	Earthwork				
84	Lowering-in				
85	backfilling as required				
86	***Work at exit point***				
87	Changes in direction				
88	Beveling & welding				
89	Inspection & testing of welds				
90	Field joint coating & coating of all bare section of pipe				
91	Earthwork				
92	Lowering-in				
93	backfilling as required				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**			**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL**	**Rev.00** **Date-11.02.2022**
				Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**
M/s. Tolani Projects Pvt. Ltd.					
S. NO.	**WORK DESCRIPTION AND SUPPLY**	**UNIT**	**QTY**	**PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR**	
94	Complete work for the water/ Road/ Rail crossings, including taking over and handling of linepipes from Contractor Storage Yard to worksite, Arrangement of all additional land required for Contractor's storage, fabrication, access for construction; construction design calculation and engineering of the crossing, mobilization and demobilization at site(s), supply of all materials as per "Scope of Supply" and all consumables, equipment, manpower and other resources, and acquiring the required land for site preparations, and execution of, but not limited to, the following works in accordance with specifications, drawings, and as per provisions of the Contract document and instructions of the Company/ Engineer-in- Charge: Carry out all surveys required for collecting data relevant to design and construction of the crossing, preparation of all necessary construction drawings for Company's approval as per the provisions of the Contractor document, Preparation of detailed construction method statement and calculations including Scour Depth calculations for river/ canal crossings, Strings preparation including welding, 100% Radiography of welds, NDT of welds and re-beveled areas, radiography, weld repair and re-test, pre-testing of completed string, corrosion coating of field joints with Dirax or equivalent, inspection of corrosion coating and repair of defects, Preconstruction surveys and collection of all necessary data, Installation of pipeline and CS conduit (6 Inch CS Conduit shall be installed through Seperate Drilling) , horizontal directional drilling to the correct profile as per approved drawings and specification, Post-installation hydrotest including leaks and repair of defects and retesting, etc. for defects attributed to Contractor's faulty work, Supply, fabrication and construction of protective fencing as required, Hydrotesting, Supply, fabrication and erection of pipeline markers, Restoration and clean-up etc., Preparation of as-built drawings and other records etc., All other works not specifically listed herein, but required as per specifications, drawings, provision of contract document, calculations, and construction method statements, leading to successful completion of works.				
95	Linepipe details:- (Pipe 8" dia, Wall Thickness: 7.1 mm, Pipe Grade: API 5L GR.X-60 PSL 2, External Coating: 3LPE) CS Conduit details: (Pipe 6" dia, 6.4mm Thick, API 5L GR.B) Note: 1. CS Conduit shall be supplied by the Contractor. Radiography & Hydrostatic testing is not required to be done for CS Conduit. (6 Inch CS Conduit shall be installed through Seperate Drilling) Contractor shall quote accordingly. 2. The rate shall be applicable for the drilled length of the HDDs. All above works shall be executed in accordance with scope of work, GTS,PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. This line item is applicable for HDD crossing mentioned in the Crossing List with prior approval of Engineer - In-Charge during Construction.	192	M	22,500	43,20,000.00
96	**SUPPLY & INSTALLATION OF OPTICAL FIBBE CABLE AND HDPE DUCT**				
97	Suppy of 24 Fibre Composite armoured Optical Fibre Cable drum (6 fibre G-655 & 18 fibre G-652) of 4 km +/-5% Cable drum length with fiber terminal closure, inspection chamber, electronic route marker all along pipeline route, Two number electronic locater as per PTS-Optical Fibre cable and Scope of Work C&I along with all required accessories and fitments not mentioned seperately.	7000	M	108	7,56,000.00
98	Inspection/Jointing Chamber (fabricated or readymade)	3	Nos	18,000	54,000.00
99	Blowing Pit (fabricated or readymade)	7	Nos	18,000	1,26,000.00
100	Supply of jointing closure 24 Fiber, 2 way including all accessories (3M, Siemens, Reychem make only)	3	Nos	9,000	27,000.00
101	Supply of End to End OFC termination of wall mounted FTC with pig tails other accessories for termination of OFC - 24 Fibre in the Telecom Room at Jharia & SV28	2	Nos	27,000	54,000.00
102	Electronic marker	3	Nos	36,000	1,08,000.00
103	Electronic Locator	1	Nos	4,50,000	4,50,000.00
104	Supply of 50mm OD permanently lubricated HDPE telecom duct along with all the required accessories as per PTS-Optical Fibre cable and Scope of Work C&I	7000	M	108.00	)00.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Tolani Projects Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
105	Laying of HDPE Duct : Laying of 50mm HDPE Ducts in same pipeline trench direct buried, or inside 6 inch CS conduit at various crossings as per Specification in all type of soil & terrain, excavated as required, padding, backfilling, etc. including supply of accessories required for HDPE Duct installation, including plastic couplers, end plugs, cable sealing plugs, end caps, etc. suitable & sufficient for above supplied ducts, cleaning and sealing of ducts at the end laid drum lengths, preparation and supply of cable blowing pit at each Km jointing of HDPE duct, testing of HDPE Duct and accessories after laying preparation of report and final drawing and documents as per specification, joint location marking, erection accessories, as-built, etc.	7000	M	27.00	1,89,000.00
106	Blowing of Optical Fibre Cable inside HDPE Duct : All activities pertaining to Blowing of Optical Fibre Cable in same pipeline trench directly (after testing drum at site), inside HDPE duct along the pipeline and at crossing, sealing using all materials required as per specification	7000	Nos	63.00	4,41,000.00
107	Installation of FTC & Wire mesh, termination of OFC on FTC / DDF inside telecom room, splicing with steet fibre, fibre test, OTDR test, power testing of laid OFC, identification of fault, rectification, earthing, final testing and commissioning, preparation of reports, etc. work complete in all respect with all necessary accessories for all location till final Handing Over and Taking Over by Owner of laid OFC.	1	LS	54,000.00	54,000.00
108	**TRANSPORTATION OF COATED AND BARE LINEPIPES FROM GAIL DUMPYARDS (ANY LOCATIONIN INDIA) TO CONTRACTOR STORAGE YARD:**				
109	"Receiving and taking over" of "free issue" Linepipes from GAIL Dump Yard location (any location in India); Carrying out inspection of Linepipes at the time of receiving and taking-over, recording of pipe & coating defects at the time of taking over in the presence of Company's representative, carrying out repair of coating defects & pipe defects attributable to Company; including supply of materials, consumables & equipments; handling, hauling and transportation from designated place of issue to Contractor Storage Yard; unloading and stacking of the linepipes at Contractor Storage Yard; including arranging all equipments, trailers, trucks & manpower; all works as per Scope of Work, drawings, PTS, GTS and other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, Provision of Contract & instructions of Engineer InCharge.				
110	Linepipe Details:- Coated and Bare Line Pipe 8" diameter API 5L Gr. X-60 PSL-2 Wall Thickness - 6,4mm / 7.1mm External Coating - 3LPE, Internal Coating - Liquid Epoxy 1) Loading of Pipes into Installation contractor's trailer shall be carried out by the contractor. 2) Development & Maintenance of Contractor Storage Yard adequate to store the linepipes including arrangement of all Lifting & Handling equipment at Contractor's Storage Yard shall be done by the Contractor. Rate for the same shall be quoted in applicable items. 3) Rate for repairing of coating defects in linepipes identified and recorded at the time of receiving & taking over i.e. coating-defects attributable to Company shall be included in this item. 4) Rate for repairing of pipe-defects identified and recorded at the time of receiving & taking over i.e. pipe-defects attributable to Company shall be quoted separately in the applicable items of the SOR. 5) Transportation of line pipe from Contractor's Storage Yard to work site is included in SOR item 1 above, No separate payment will be applicable for the same.	350000	Ton-Km	27.00	94,50,000.00
111	TRANSPORTATION OF FREE ISSUE PIPING ITEMS (OTHER THAN LINE PIPE) FROM GAIL STORAGE YARDS (ANY LOCATION IN INDIA) TO CONTRACTORS YARD / WORKSITE(S) : "Receiving and taking-over", handling, lifting, loading, transportation and unloading of Company supplied "free-issue materials" (Other than line pipe) viz. Metering Filtering and PRS Skid, Scrapper Launcher/ Receiver & accessories, Valves with or without Actuators, Insulation Joints, Flow Tee, Pig Signallers, fittings, flanges etc. from GAIL Storage yards location (any location in India) to Contractor's Storage Yard / work-site(s). Note:- 1) Location of GAIL Storage Yard shall be anywhere in India. Contractor shall quote accordingly. 2) Transportation of FIM from Contractor's Storage Yard to work site, is included in SOR item 119 below, No separate payment will be applicable for the same.	24000	Ton-Km	36.00	8,64,000.00
112	**DEVELOPMENT OF CONTRACTOR STORAGE YARD:**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL**	**Rev.00** **Date-11.02.2022**
		Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
113	Development of the Contractor Storage Yard including fencing, illumination etc., including deployment of all lifting and handling equipments, manpower required to stack, unload and load all Free Issue Material (FIM) including Line Pipes and all bought out items, as required; storage of all Free Issue Material and bought out items for the required duration as per project requirement, all works as per Scope of Work, drawings, other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, PTS, GTS and Provision of Contract & instructions of Engineer In-Charge. The storage yard shall be used for storage of all Free Issue Line pipes, all other Free Issure Material (FIM) and all bought out items required for the project. Notes:- 1) Development of contractor storage yard adequate to store all the material required for Project, including all Free Issue Material (FIM) and bought out items. (Rate for the same shall be captured in this item) 2) Maintenance of contractor storage yard for the entire project period is included in the scope of contractor. No separate payment shall be applicable for the same.	1	LS	7,20,000.00	7,20,000.00
114	Hard Rock breaking by controlled blasting / chiseling method (rate will be applicable in case when prior approval for rock breaking is obtained by the contractor from GAIL / PMC)	50	M3	3,000.00	1,50,000.00
115	Clean Agent Fire Supression System as per Scope of Work	1	LS	99,00,000.00	99,00,000.00
116	Restoration of underground utilities (pipes & cables) during excavation at ONGC, GCS Jharia and Receiving Station (which is inside SV-28 Premises)	5	Nos	9,000.00	45,000.00
117	**Sub-Total Section A**				**5,43,20,982.00**
118	**SECTION-B [MECHANICAL (PIPING & TERMINAL WORKS)]**				
119	**PIPING WORKS AT DESPATCH AND RECEIVING STATIONS AND HOOK-UP WITH ONGC GCS, JHARIA** All works for installation of all piping at all elevations for Despatch and Receiving Stations as indicated in Drawings, Scope document, including supply of all consumables, Gaskets, nuts, bolts Studs, manpower, materials and equipment (except Company supplied free-issue materials), aligning, grouting, tie-in with pipeline and carrying out all mechanical works of underground and above ground piping including fabrication, welding, installation of all pipes, valves (manual & actuated), flanges, fittings, flow tees, pig signalers, insulating joints, corrosion monitoring probes /corrosion coupons, installation of instruments (pressure/temperature gauges, vents, drains-off, safety relief valves, electro hydraulic valves etc.) as indicated in P& IDs and GADs. 100% Radiography of weld joints of piping above 1.5 inch, Magnetic particle & Die penetration test for piping 1.5 inch & below, all NDT of welds, weld repairs/retesting, hydrostatic testing, cleaning/flushing, functional testing, de-pressurizing , Drying and dewatering, cutting and re-beveling (as required), hookup of all pipeline/utilities at the battery limit with the pipeline/utilities installed by others, obtaining all statutory clearances, approvals and permissions for the work (wherever required), excavation and filling in all types of soils including soft/hard rock for installation of piping/ pipe supports; corrosion coating and external painting (as required), finishing, clean-up and restoration of site, preparation of as- built drawings, documents and project records and performing all works as per drawings, specifications, other provisions of Contract document and instructions of Engineer-in-Charge. Civil/ structural works for piping supports will be paid separately as per unit rate provided elsewhere in the contract. Cost of Transportation of all materials (Including FIM mentioned above) for station works, from Contractor's own stock-yard to Work site, to be included in this SOR item. No separate payment will				
120	Fabrication and Erection of piping as per item no.110, (For Pipe Size 2 Inch and above, 100% Radiography) Note: 1. Rate for Handling, Fabrication and erection of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item. Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor.Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes 2" & above, shall also be part of this item. Contractor shall quote accordingly.	1500	INCH DIA METER	1,080.00	16,20,000.00
121	Fabrication & Erection of Piping as per item no. 110 (For Pipe Size Below 2 inch, Magnetic particle & Dye Penetration Test as per the requirement of specification) Note: 1. Rate for Handling and installation of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item.Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor. Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes below 2", shall also be part of this item. Contractor shall quote accordingly.	50	INCH DIA METER	1,440.00	72,000.00
122	Painting of Piping (Pipe, Fittings, Flanges, Valves, Equipments, etc.) as per item no. 110	1550	ICH METER	144.00	2,23,200.00

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123	Hydrostatic testing, cleaning / flushing, functional testing, de-pressurizing, dewatering & drying of Piping as per item no. 110 (for all size upto 10").	1550	ICH METER	90.00	1,39,500.00
124	**INSTALLATION OF COMPANY SUPPLIED FIM (FML SKID AND PIG LAUNCHER/RECEIVER SYSTEM) AT DESPATCH TERMINAL AND RECEIVING TERMINAL**				
125	Installation of Company supplied Filtering, Metering and PRS Skid and Scrapper Launcher/ Receiver with accessories, at stations including all handling and installation works; as per drawings, specifications enclosed with the Contract and directions of Engineer-in-Charge. Cost of Transportation of above Free issue items, from Contractor's own stock-yard to Work site for station works, to be included in this SOR item. No separate payment will be applicable for the same.	1	LS	5,40,000.00	5,40,000.00
126	**CONTRACTOR SUPPLIED ITEMS:(Supply of Items as per attached PTS,GTS,Data Sheet,QAP and PMS)**				
127	**Station pipe -Seamless**				
128	1" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, PE, SEAMLESS	6	METER	1,800.00	10,800.00
129	2" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	90	METER	2,970.00	2,67,300.00
130	4" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	135	METER	4,050.00	5,46,750.00
131	8" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	50	METER	12,600.00	6,30,000.00
132	8" pipe, 6.4mm thk, ANSI B 36.10, API5L X 60, BE, HFERW/SEAMLESS	29	METER	8,100.00	2,34,900.00
133	10" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	12	METER	17,100.00	2,05,200.00
134	**Supply of Fitting & Flanges**				
135	1 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 350 LF2,CL1, BW, ANSI B16.25	4	Nos	1,350.00	5,400.00
136	2 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25.	3	Nos	3,330.00	9,990.00
137	1" WNRF FLANGES, 6C1, SCH. 160 / 600#, WNRF, B-16.5, ASTM A350 LF2, CL1, BW-ANSI B16.25 RF	4	Nos	1,530.00	6,120.00
138	8", WNRF FLANGES, 6C2, 6.4 thk/ 600#, WNRF, B-16.5, ASTM A694 F60 OR EQUIVALENT, CL1, BW-ANSI B16.25 RF.	5	Nos	15,300.00	76,500.00
139	1", BLIND FLANGES, 6C1, 600#, RF, B-16.5, ASTM A350 LF2, CL1, RF	4	Nos	1,620.00	6,480.00
140	3/4" EQUAL TEES, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25,	1	Nos	1,170.00	1,170.00
141	3/4", CUP THREADED 6C1, 6000#, ANSI B16-11, ASTM A 350 LF2, CL1 , BW - ANSI B16.25, ANSI B1.20.1,	3	Nos	900.00	2,700.00
142	**WELDOLETS (MAINLINE x BRANCH SIZE)**				
143	4" x 1", WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1 ,	2	Nos	2,340.00	4,680.00
144	8" x 2" WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 6.4 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 694 F60	13	Nos	2,520.00	32,760.00

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145	8" x 2", WELDOLETS (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	26	Nos	2,520.00	65,520.00
146	**GASKETS**				
147	GASKETS, 6C1, 600#, RF, ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 1"	12	Nos	108.00	1,296.00
148	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 2"	210	Nos	216.00	45,360.00
149	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 4"	30	Nos	450.00	13,500.00
150	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 8"	47	Nos	810.00	38,070.00
151	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 10"	2	Nos	1,080.00	2,160.00
152	**NIPPLES**				
153	NIPPLES, 6C1, Sch 160 /600#, ANSI B 36.10, ASTM A333 GR.6, BOTH ENDS PLAIN, SEAMLESS-LG=100mm, 3/4"	12	Nos	810.00	9,720.00
154	NIPPLES, 6C1, Sch 160 / 600#, ANSI B 36.11, ASTM A333 GR.7, ONE END THRD -MNPT SEAMLESS- LG=100mm, 3/4"	8	Nos	990.00	7,920.00
155	**INSULATING JOINT**				
156	INSULATING JOINT 6C,16.4 mm (X60) x 600# ,MANUFACTURER STANDARDS ,ASTM A694 F60 ,BW - ANSI B16-25, 8"	2	Nos	2,52,000.00	5,04,000.00
157	**Supply of following Valves as Per attached PTS,GTS,Data Sheet,QAP,PMS & MTO**				
158	1",BALL VALVE - FULL BORE (RF) (ABOVE GROUND),6C1	6	Nos	27,000.00	1,62,000.00
159	3/4", CHECK VALVE (RF) (AG), 6C1	2	Nos	18,000.00	36,000.00
160	3/4",NEEDLE VALVE, 6C1	5	Nos	9,000.00	45,000.00
161	**Note (Applicable for all items of SOR Item No 126 to 160):** **1. Before procurement of any of the above materials Contractor will take prior approval from GAIL / PMC.** **2. Payment will be made for actual quantity used.**				
162	**Sub-Total Section B**				**55,65,996.00**
163	**SECTION-C [CIVIL / STRUCTURAL & ARCHITECTURAL]**				
164	**CIVIL , STRUCTURAL & ARCHITECTURAL**				
165	**Earthwork excavation in soil**				
166	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	1770	cum	35.00	61,950.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Tolani Projects Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
167	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth beyond 1.5m and upto and inclusive of 3.0m including Removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	50	cum	405.00	20,250.00
168	**Earthwork excavation in soft rock**				
169	Earth work in EXCAVATION below ground level for all kinds of works in SOFT ROCK and HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as irected including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	130	cum	900.00	1,17,000.00
170	**Backfilling after execution of work**				
171	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps within a LEAD OF 100M,including re-excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/ mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	580	cum	180.00	1,04,400.00
172	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps beyond a LEAD OF 100M AND UPTO & INCLUSIVE OF 500M including re- excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	250	cum	207.00	51,750.00
173	**Transporting & Disposing the SURPLUS EARTH AND DEBRIS**				
174	Transporting and disposing the SURPLUS EARTH AND DEBRIS including shrubs and vegetations from construction areas to areas ANYWHERE OUTSIDE THE PLANT BOUNDARY, including re-excavating the deposited soil excavated earlier, loading, transportation, unloading, laying at all depths and heights, stacking,levelling and dressing both the area (viz. from where the earth is transported and where it is deposited) to required levels and slopes complete with all lifts as directed. For carting on the basis of truck measurements (volume of truck reduced by 30% for voids). DISPOSAL AREAS OUTSIDE PLANT BOUNDARY TO BE ARRANGED BY THE CONTRACTOR. Royalty as applicable for disposal outside plant limits to be borne by the Contractor	760	cum	108.00	82,080.00
175	**EARTH WORK FILLING BY EXCAVATION**				
176	EARTHWORK IN FILLING by excavating the earth from BORROW AREAS arranged by CONTRACTOR for all leads, transporting the earth from borrow area including cleaning & stripping the earth at borrow areas, breaking clods, loading, unloading and laying at all depths and heights in layers of thickness not exceeding 15 cms., watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% of the maximum laboratory dry density, ressing, trimming, levelling the top surface etc. in foundations, plinths, trenches etc. all complete.	4725	cum	630.00	29,76,750.00
177	**PLAIN & REINFORCED CEMENT CONCRETE: (REFER SPECIFICATION NO. (Z/02/0004)**				
178	**PLAIN CEMENT CONCRETE - PCC**				
179	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:4:8 (1 cement : 4 coarse sand (Zone-III) : 8 graded stone aggregate 40 mm nominal size)	105	cum	7,632.00	8,01,360.00
180	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:3:6 (1 cement : 3 coarse sand (Zone-III) : 6 graded stone aggregate 40 mm nominal size)	20	cum	8,100.00	1,62,000.00
181	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:2:4 (1 cement : 2 coarse sand (Zone-III) : 4 graded stone aggregate 20 mm nominal size)	120	cum	8,415.00	300.00

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Tolani Projects Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
182	Providing and laying PLAIN CEMENT CONCRETE for all depths below and upto plinth level in foundations, drains, fillings, non-suspended floors, pavements & ramps or any other works etc. including shuttering, tamping, ramming, vibrating, curing, etc. all as specified in any shape, position, thickness and finishing the top surface rough or smooth as specified and directed all complete for concrete grade M20 with 20mm and down size graded crushed stone aggregates/Gravels. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR	110	cum	8,550.00	9,40,500.00
183	**RCC WORKS**				
184	**SUBSTRUCTURE**				
185	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUBSTRUCTURE INCLUDING CENTERING & SHUTTERING) e.g. foundations, raft, beams, pile caps, Retaining walls, counterforts, buttresses, pedestals, pipe sleepers, columns, suspended floors, staircases, landings, steps, brackets etc., including equipment/ machine foundations & pedestals viz. compressors, generators, etc. (including single pour concreting as specified on the drawing), applying cement wash on concrete surface (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering, etc., wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT)for all depths below and upto plinth level in any shape, position and thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	615	cum	11,070.00	68,08,050.00
186	**SUPER STRUCTURE - EXCLUDING CONTROL ROOM BUILDING, GUARD ROOM & BOUNDARY WALL**				
187	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUPER STRUCTURE INCLUDING CENTERING & SHUTTERING in suspended floors, slabs, beams, columns, walls including counterforts, staircases, landings, steps, facias, fins, mouldings, gutters, shelves, window sills, canopies, lintels, girders, ducts, brackets, chajjas with drip moulds, pedestals, posts, struts, equipment/ machine foundations, ramps etc. (including single pour concreting as specified on the drawing), providing cement wash (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT) FOR ALL HEIGHTS UPTO & INCLUSIVE OF 20 m ABOVE PLINTH LEVEL in any shape, position, thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	70	cum	11,250.00	7,87,500.00
188	**CONTROL ROOM BUILDING (SUPERSTRUCTURE)**				
189	Construction of Control Room Building as per drawings and specification. Building work for all Superstructure works INCLUDING CENTERING & SHUTTERING , Reinforcement , masonry work, partition wall, Plastering & pointing, flooring, Floor finishes, Door & windows, rolling shutter, false ceiling, all finishes, painting, roof treatment complete in all respect etc.)	215	m2	33,300.00	71,59,500.00
190	**GUARD ROOM (SUPERSTRUCTURE)**				
191	Guard Room as per drawings and specification. Building work for all superstructure works including (Reinforcement, masonry work Plastering & pointing, flooring, Floor finishes, Door & windows, painting, roof treatment, all finishes, water supply and sanitary work complete in all respect etc.)	17	m2	33,300.00	5,66,100.00
192	**HYD Bars / MS Bars**				
193	Supplying and placing in position HIGH YIELD STRENGTH DEFORMED STEEL BARS REINFORCEMENT of Grade Fe500D TMT conforming to IS:1786, for RCC work (excluding control room building & Guard room & boundary wall superstructure) including transporting the Steel, straightening, cleaning, decoiling, cutting, bending to required shapes and lengths as per details, binding with 18 SWG black soft annealed binding wire at every intersection, supplying and placing with proper cover blocks, supports, chairs, overlaps, welding, spacers, fanhooks etc. for all heights and depths etc. all complete as directed. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE	70	MT	91,800.00	64,26,000.00
194	**STRUCTURAL STEEL WORKS (REFER TE SPECIFICATION)**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Tolani Projects Pvt. Ltd.

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195	Supplying, fabricating and erecting of structural steel and applying COATING (Post-erection/ Field) of approved quality and shade as per TE Specification or Job Specifications, wherever applicable) over the coat of shop primer already applied, including storage, surface preparation, degreasing, cleaning, drying, providing necessary arrangement for access, testing etc. including touching up of shop for steel structures (Including Wicket Gate, Main Gate and emergency gate, excluding ladders, spiral stairways & hand rails) at all location & levels, all complete as specified, for UNIT (INLAND) areas considering environment classification as INDUSTRIAL. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE. (Unit rate based on Structural steel weight)	25.5	MT	1,35,000.00	34,42,500.00
196	**MISCELLANEOUS STEEL WORKS (REFER TE - SPECIFICATIONS)**				
197	MS Chequered Plates				
198	Supplying, fabricating and erecting in position at all levels and locations bolted, screwed and/or welded M.S. CHEQUERED PLATES of any thickness in walkways, platforms, stairtreads or any other place as directed, etc. cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing, welding, preparation and submission of fabrication drawings and preparing the surfaces for painting and applying shop primer as per TE Specification after fabrication and return of unused/ scrap/ unserviceable chequered plates to Owner's store and material reconciliation etc. all complete as specified and directed	1.5	MT	1,44,000.00	2,16,000.00
199	Anchor Bolts				
200	Supplying, fabricating, fixing and keeping in position at all levels and locations THREADED ANCHOR BOLTS of all diameters and nomenclature including nuts, washers, anchor plates, pipe sleeves etc. in foundations, columns, pedestals, slabs, beams, walls etc. or any other place as directed including handling & transporting, straightening if required, turning from relevant size M.S. rounds to required diameter, threading, welding, providing necessary templates and auxiliary dummy structures, if any, necessary tying and welding with reinforcement, adjustment of shuttering & reinforcement/any other fixture, greasing exposed metal surfaces, covering bolts and packing the sleeves with jute cloth etc. all complete as specified and directed.(SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.6	MT	1,53,000.00	2,44,800.00
201	MS Metal Inserts				
202	Supplying, transporting, storing, fabricating and fixing in position M.S. METAL INSERT (with lugs) of any shape made out of flats, plates, rolled sections, pipes etc. providing necessary templates, staging, cutting,straightening, if required, bolting, welding as required and embedding in position on both Plain and Reinforced Cement concrete members inclusive of adjusting shuttering & reinforcement/ any other fixture, welding where necessary, tying and holding to correct level, line and position, any auxiliary dummy structures to support the heavy inserts, painting exposed surfaces with a coat of primer as per TE Specification all complete for all depths and heights as specified and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	0.55	MT	1,62,000.00	89,100.00
203	MS Grating				
204	Supplying, fabricating and erecting in position at all levels and locations ELECTROFORGED GALVANISED GRATING (purchased from approved manufacturer by the Contractor) conforming to TE STANDARD (in walkways, platforms, stair treads etc.) including cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing with manufacturer's supplied galvanised clamps, preparation and submission of fabrication drawings, all complete as specified and directed (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.85	MT	1,62,000.00	2,99,700.00
205	Hand Railing 1000mm				
206	Supplying, fabricating and fixing in position at all locations 1000mm high INCLINED HAND RAILING (for staircases) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade M.S. Tubes conforming to IS:1239 including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE SPEC. preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	3,600.00	36,000.00

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207	Supplying, fabricating and fixing in position at all locations 1000mm high HORIZONTAL HAND RAILING (for platforms, walkways, etc. or any other location as directed) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade MS Tubes conforming to IS:1239 and 100x5 MS Toe Plate confirming to IS:2062 (Grade A/B), including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE standard drawing & specification, preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	3,600.00	36,000.00
208	**CHAIN LINK FENCING**				
209	Supplying, fabricating and fixing G.I. chain link fencing with 3.5mm dia. wire, 50x50mm diamond mesh chain link fence fabric conforming to IS:2721 fixed to steel/RCC posts/struts above ground level, including supply of chain link fencing fabric in 1.9 metre wide rolls, stretcher bars, staples, etc. required for fixing the fencing, fixing of chain link fencing between straining posts, fixing of bottom of fencing in cement concrete 1:2:4 blocks and painting with synthetic enamel etc. , including supply and fixing line wires, complete as per drawings, specifications and directions of Engineer -in-Charge (All materials shall be supplied by Contractor). (The measurement of chain link fencing shall be on linear basis for 1.9 m wide fencing fabric)	10	M	4,500.00	45,000.00
210	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of the Engineer-in-Charge. Made of G.I. wire of dia. 4 mm, PVC coated to achieve outer dia not less than 5 mm in required colour and shade.	600	M2	3,240.00	19,44,000.00
211	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Star' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	200	M	900.00	1,80,000.00
212	**ROADS & FLEXIBLE PAVEMENT (UPTO WBM LAYER)**				
213	Preparation and consolidation of sub-grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth outside the property boundary in the un-disputed areas as directed by Engineer-In-Charge.	1500	M2	630.00	9,45,000.00
214	Supplying and laying of stone aggregate of 63mm down to 45mm size for WBM layer Base Course, tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 75mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding material of plasticity index upto 6%, including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts etc. complete as per drawings, specifications and directions of Engineer-in-Charge	4500	M2	1,260.00	56,70,000.00
215	**CONCRETE PAVEMENTS**				
216	Construction of dry lean cement concrete **(DLC) sub base** over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in- charge.	150	cum	1,800.00	2,70,000.00
217	Providing and laying Reinforced Cement Concrete with 20mm and down size graded crushed stone aggregates in flooring, pavements etc. including leaving pockets, if necessary, making recess/drains, laying in alternate panels, etc. for all depths including shuttering, tamping, curing, providing dowel bars with sleeves/tie bars etc where ever required at site. as specified in any shape, thickness, position and finishing the top surface smooth etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For RCC of M-30 grade concrete (all materials including cement but excluding cost of providing & fixing reinforcement and joint sealing shall be supplied by the contractor).	375	cum	2,250.00	8,43,750.00

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218	Providing 20mm wide Expansion Joints in pavement slabs as per general technical specification including cleaning the joints of all loose material, filling with 20mm thick impregnated fibre boards for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved Joint Sealing Compound as per IS:1834 Type-B etc. all complete as per drawings, specifications and directions of Engineer-in-Charge	720	M	900.00	6,48,000.00
219	Sealing joint around pedestal and column etc. 20mm wide x 150 mm deep including filling with 20mm thick impregnated fire board for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved joint sealing compound as per IS:1834 Type-B.	300	M	900.00	2,70,000.00
220	**RCC PIPE CULVERTS & ELECTRICAL ROAD CROSSINGS ETC. (as per drawing & TE specification)**				
221	Supplying and laying in position RCC pipes with collars conforming to IS:458 for pipe culverts, cable crossings etc. including cutting the pipe if necessary, lowering, laying in position to proper levels, slopes etc. caulking the joints with spun yarn soaked in neat cement slurry and finishing with cement mortar 1:2 (1 cement : 2 sand) curing etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For following Class and Internal PIPE DIA (MM). (Dia (internal) - 500 mm, Pipe Class - NP3)	20	M	5,400.00	1,08,000.00
222	**U/G AND A/G G.I. PIPELINE SYSTEM - WATER SERVICES tender specification**				
223	Supplying and laying mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ ASTM A105 (Galvanized) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, earthwork in excavation for trenches, valve pits, etc. in all types of soil excluding soft and hard rock including laying of pipes in trenches, joining the pipes and fittings with threaded connections, hydrostatic testing of the piping, backfilling the trenches with selected/approved earth fill material, cutting of roads wherever required, making good the road surface after laying, disposal of surplus earth within a lead of 500 m, etc. including supply of necessary fittings etc. complete as per specifications, drawings and directions of Engineer-in-Charge. For following Nom.Size in mm. (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	900.00	9,000.00
224	Supplying and laying above ground mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ASTM A 105 (GALVANISED) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, including laying of pipes on sleeper, walls, including erecting piping on columns, etc. for pump station, overhead tanks, etc. including joining the pipes and fittings with threaded connections, hydrostatic testing of the piping including supply of necessary fittings etc & pipe supports. complete as per specifications, drawings and instructions of Cement Supplied by contractor (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	1,170.00	11,700.00
225	**MISC. CIVIL AND STRUCTURAL WORKS FOR U/G PIPING AND OTHER CIVIL WORKS**				
226	Providing and laying brick masonry with locally available bricks of specified class (Brick of class lower than specified shall not be accepted) in cement mortar 1:4 (1 cement : 4 Coarse sand) in one or more brick thickness and in any shape in foundation and plinth for valve pits, drains, circular/square manholes, wing walls, etc. including providing recesses, openings, etc. including curing, finishing the joints flush below ground level and raking out joints in plinth with all labour and material, etc. complete as per drawings, specifications and direction of Engineering-Charge. For following Brick Class.	280	cum	9,900.00	27,72,000.00
227	Providing 13mm thick average cement plaster in cement mortar 1:3 (1 cement: 3 sand) on brick walls/stone masonry/pitching or on concrete surfaces for manholes, valves pits, culverts, wing walls, etc. including cleaning and preparation of the surface, scaffolding, curing etc. for all depths and heights complete as per drawings specifications and direction of Engineer-in-Charge. All materials including cement supplied by the Contractor.	750	M2	351.00	2,63,250.00
228	**UNDERGROUND SEWER SYSTEM - RCC PIPES**				
229	Supplying and laying underground R.C.C. pipes sewers with socket and spigot ends conforming to IS:458 of approved make, to proper grade and alignment, including earthwork in excavation in all types of soil except soft and hard rock for pipe trenches, etc. including dewatering, shoring and shuttering if necessary, dressing of sides, leveling, grading and ramming of bottoms, cutting the R.C.C. pipes to required lengths, lowering the pipes, jointing, including connecting the pipes to manholes and grouting the pipe body with manhole wall using cement mortar 1:2 (1 cement : 2 sand), testing, draining of water and cleaning of pipe after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness , watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, including cutting of roads wherever required and making good the same, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit etc. complete for all depths as per drawings, specifications and instructions of Engineer-in-Charge.(All material shall be supplied by contractor) For following Pipe size (mm) and Class(The following pipe sizes are all internal diameter of the pipes)				
230	(Dia (Internal) - 100 mm, Piping Material Class - NP2)	15	M	2,520.00	37,800.00
231	(Dia (Internal) - 150 mm, Piping Material Class - NP1)	15	M	2,880.00	200.00

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232	(Dia (Internal) - 450 mm, Piping Material Class - NP2)	70	M	4,500.00	3,15,000.00
233	**UNDERGROUND SEWER SYSTEM-HDPE PIPES**				
234	UNDERGROUND SEWER SYSTEM-HDPE PIPES :- Supplying and laying HDPE pipes conforming to IS:4984 of approved make to proper grade and alignment, including earthwork in excavation for trenches etc. in all types of soil except soft and hard rock including dewatering till completion of subsequent works, shoring and strutting, if necessary, dressing the sides, leveling, grading and ramming the bottom, jointing the pipes using hot plates as per manufacturer's recommendation, lowering, providing and laying 1:5:10 (1 cement : 5 sand : 10 aggregate) plain cement concrete of minimum 100mm thickness on bottom and side of pipe as directed, connecting the pipes to manholes and grouting the pipes to manhole/valve chamber walls, including supplying and fixing the specials and fittings, such as bends, reducers, tees, elbows, caps etc. conforming to IS:8008 or fabricated from pipes as per specification, supplying and fixing of flanges, fixing of online valves, including fixing of bolts, nuts and gaskets etc. as per specifications, testing, draining of water and cleaning of pipes after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness, watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit, cutting of road wherever required, making good the same etc. complete for all depths as per drawings, specification and instruction of Engineer-in- Charge. For the following nominal diameter (mm) Pressure Rating(Kg/Cm2). (Dia (Internal) - 80 mm, Pressure Rating - 2.5 Kg/sqcm)	50	M	1,800.00	90,000.00
235	**PLUMBING AND BUILDING DRAINAGE**				
236	Supplying and fixing approved quality Cast Iron soil/waste pipe conforming to IS:1729 below ground with necessary specials, bends such as Y-junction, T- junction (both single and double) including plugs, shoes, cowls, jointing with lead caulked joints and testing, cutting in floors, earth work in excavation, encasing the pipe in 50mm THK, PCC M20, backfilling and removal of surplus earth upto a lead of 50M etc. complete as per drawings, specifications and directions of Engineer-in-Complete				
237	100mm dia (All materials including cement supplied by contractor)	10	M	2,340.00	23,400.00
238	80mm dia (All materials including cement supplied by contractor)	10	M	2,160.00	21,600.00
239	**Supplying and fixing gun metal globe valve conforming to IS:778, complete as per specifications and directions of Engineer-in-Charge.**				
240	Dia - 50 mm	2	Nos	9,000.00	18,000.00
241	**Constructing of brick masonry valve chamber in 1:4 Cement mortar(1 cement: 4 sand) with CI frame & cover fixed on M-20 grade cement concrete , necessary excavation, M-20 grade foundation concrete, 13mm thick 1:3 cement plaster on inside & all exposed surfaces, backfilling, removal of surplus earth for all leads within the complex limit etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge. For following Valve size and Brick Class (All materials including Cement supplied by contractor)**				
242	Dia - 50 mm, Brick Class - 5)	2	EACH	45,000.00	90,000.00
243	Providing and fixing approved stone ware 100mmx100mm dia. gully trap as per tender specification, including grating with CI frame and cover 300mmx300mm including brick masonry (brick class shall be as mentioned below) chamber in 1:4 cement mortar(1 cement: 4 sand) on M-20 grade cement concrete foundation, plastered inside and outside surfaces with 1:3 cement mortar (1 cement: 3 sand) with 13mm average thickness including providing and fixing light duty CI frame and cover, painting CI frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat, earth work in excavation, backfilling, removal of surplus earth, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry etc. all complete as per drawings, specifications and directions of Engineer-in-Charge				
244	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	13,500.00	27,000.00
245	Construction as per(Design basis & general technical specification) of brick masonry (brick class shall be as mentioned below) inspection chambers/manholes of 750mmx750mm internal size 1000mm deep(Max.) in cement mortar 1:4 (1 cement: 4 sand) with CI frame and cover 500mm clear dia, (circular Medium duty of grade MD-10) conforming to IS:1726 fixed on RCC slab of M-30				
246	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	36,000.00	72,000.00
247	Construction, supplying, installation, testing and commissioning of septic tank as per standards and IS:2470 Part-I , with all necessary accessories like inlet, outlet vent pipes, manhole covers, rungs etc. including earthwork in excavation in all type of soil except soft and hard rock, backfilling and disposal of surplus earth for all leads etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Tolani Projects Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
248	All material including cement supplied by contractor for (Users - 10 NOS)	1	Nos	1,80,000.00	1,80,000.00
249	**MISCELLANEOUS ITEMS**				
250	Supplying and fixing in position entrance gate in complex boundary wall fencing manufactured out of steel frame work and square MS bars of 20 mm at 100 c/c and horizontal name plate band at lock rail level suitably hinged with box type steel post embedded in cement concrete i.e. providing the tension bar for smooth operation and locking arrangement etc. complete as per tender specification, including painting with two coats of anti-corrosive paint and two coats of approved aluminium/synthetic enamel paint etc. complete as per drawings, specifications and directions of Engineer-in-Charge.				
251	4.0M clear opening width of gate in two panels.	3	Nos	1,26,000.00	3,78,000.00
252	Supplying & Laying interlocking Paver Blocks for roads, footpaths and any other place etc. including providing 50 mm thick sand filling below Paver Blocks including compaction of sand layer, filling the joints by dry sand, providing precast kerb stone of PCC M-20 at edges, including preparation of compacted sub-grade etc. all complete as per drawing, standard and directions of Engineer-in-Charge. (All material including cement supplied by contractor, paver blocks shall confirm to IS: 15658. cloour and shape of paver block shall be as per owner requirements for following thickness of paver blocks				
253	**(Thickness - 60 mm)**	285	M3	1,440.00	4,10,400.00
254	Supply and installation on terrace, high density polyethylene drinking water circular tank as per IS:12701 and ISI marked including supply and installation of all fittings, cover with suitable locking arrangement, float valve, making necessary holes for inlet, outlet and overflow connection and vent pipe etc. and the base supports for tank including supply of all necessary material all complete as per specifications and directions of Engineer-in-charge. (Sintex or equivalent having valid ISI license) for following capacities.				
255	**capacity - 500 litre**	2	Nos	14,400.00	28,800.00
256	Supplying, installation, testing and commissioning of Upflow Anaerobic Filter with bleaching tank as per TE Std. Drawing with all necessary accessories like, Upstream inlet CI piping from septic tank, Downstream outlet RCC NP2 class piping up to surface storm water drains, CI pipes for filter chamber, CI valve, RCC pre-cast pit covers, steps, perforated pre-cast slabs etc., inlet chamber, Filter chamber, deluding chamber including earthwork in excavation in all type of soil including soft rock, backfilling with murrum or approved soil arranged by the contractor, disposal of surplus earth etc. complete as per drawings, specification and direction of Engineering-Charge (All materials including cement shall be supplied by the contractor, Brick Class lower than 5.0 shall not be used).	1	Nos	63,000.00	63,000.00
257	**DEMOLISHING AND DISMANTLING**				
258	**Brickwork**				
259	**Demolishing BRICKWORK** (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	2,700.00	27,000.00
260	**Demolishing BRICKWORK** (taking all necessary safety precautions) for all heights **above plinth level** including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	2,700.00	27,000.00
261	**RCC**				
262	**Demolishing RCC WORK** (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	3,600.00	36,000.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Tolani Projects Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
263	**Demolishing RCC WORK** (taking all necessary safety precautions) for all heights **above plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	3,600.00	36,000.00
264	**PCC**				
265	**Demolishing PLAIN CEMENT CONCRETE** work (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc. disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation and backfilling shall be paid separately under relevant items)	10	cum	3,330.00	33,300.00
266	**MISCELLANEOUS ITEMS (REFER TE SPECIFICATION)**				
267	**Sand Filling**				
268	Supplying and filling approved SAND of specified quality under floors, in foundations, plinths, tank foundations etc. for all depths and heights including cost of sand,royalties,transportation to site for all leads and lifts, including loading, unloading, spreading in layers of loose thickness not exceeding 150 mm,watering,ramming,compacting with mechanical compactors and/or other equipment to the specified levels to achieve 85% relative density as per IS:2720 Part XIV,including preparation of subgrade to the required slope, providing testing apparatus and testing the degree of consolidation all complete as per drawings, specifications and direction of Engineer-in-charge. The rates shall be inclusive of the cost of all labour,material,equipments etc. all complete .	100	cum	1,350.00	1,35,000.00
269	**SAND GRAVEL MIX**				
270	Supplying and filling sand gravel mix (1:1) with approved aggregate below road, RCC pavement, manholes, pits, foundations, bedding of UG piping etc. in layers of 150 mm loose thickness (maximum) including watering, ramming, rolling, compacting to achieve 85% relative density as per IS 2720 Part-XIV, quarrying, royalties, transportation, handling, etc. all complete as per drawings, specifications and directions of Engineer-in- Charge. (The rate shall be inclusive of the cost of all labour, material, equipment etc. all complete)	105	cum	1,800.00	1,89,000.00
271	**GROUTING WITH NON-SHRINKABLE COMPOUND**				
272	Providing and laying manually or by pumping at all positions a ready mix non-shrink cementitious grout of compressive strength specified below for specified works e.g. pipe support, base grouting of rotating equipment and other installation complete in all respects as per scope of work, detailed construction drawings , technical specifications and directions of the Engineer-In-Charge.				
273	Having compressive strength of 30 N/mm2 , Per bag of 25 Kg	100	Bags	1,170.00	1,17,000.00
274	Having compressive strength 45 N/mm2 , Per bag of 25 Kg	20	Bags	1,440.00	28,800.00
275	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains, SS trench of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.	7.5	m2	1,800.00	13,500.00
276	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, leve and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	13.5	cum	11,700.00	1,57,950.00
277	Providing and fixing factory made precast RCC **perforated drain covers**, having concrete of strength not less than M-25, of size 1000x450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos. cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of the Engineer-In-Charge.	515	EACH	630.00	3,24,450.00
278	**Borewell and recharge well**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Tolani Projects Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
279	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job all complete as per drawing, direction of Engineer -in-charge, in all types of soil :	130	M	2,700.00	3,51,000.00
280	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge.	130	M	1,170.00	1,52,100.00
281	Providing and fixing Bail plug/ Bottom plug of required diameter to the bottom of pipe assembly of tubewell as per IS:2800 (Part-I). :150mm dia	3	EACH	2,700.00	8,100.00
282	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	2,700.00	13,500.00
283	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	2,340.00	11,700.00
284	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	1,800.00	9,000.00
285	Gravel packing in tubewell construction in accordance with IS:4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of the Engineer-In-Charge.	3	cum	1,800.00	5,400.00
286	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS:4270, of reputed & approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size dia having minimum wall thickness 5.00 mm	5	M	4,500.00	22,500.00
287	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	60	M	1,170.00	70,200.00
288	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/ 3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS:8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	25	M	4,500.00	1,12,500.00
289	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of 150 mm diameter	1	Nos	2,700.00	2,700.00
290	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS:2800 (Part-I), including necessary bolts & nuts of required size complete 150 mm diameter.	1	Nos	1,800.00	1,800.00
291	Supply, Installation and commissioning of 1.5HP Borwell Submersible Pump	1	EACH	36,000.00	36,000.00
292	Supply and Installation of 3Cx10Sqmm Copper Flat Cable	200	M	900.00	1,80,000.00
293	**LANDSCAPING**				

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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294	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment).	335	cum	450.00	1,50,750.00
295	Fine dressing of the ground.	1105	M2	27.00	29,835.00
296	Providing & laying Selection no. 1 grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden and than rolling the surface with light roller make the surface smoothen and light watering the same maintenance for 30 days or more till the grass establish properly,as per direction of officer in charge	1105	M2	270.00	2,98,350.00
297	Conducting topographical ground/land survey in the specified area as shown in the tender drawings by conventional/GPS or any other standard method, covering details of physical features like Rivers, Nallahs, Lakes, Ponds, wells, pits, Forest, Trees, Roads, culverts, transmission lines, telegraph/ telephone and electric poles, underground or any other services, cross drainage works including cross sectional details of nallah etc. including establishing high flood level with source of information, identification of any monument, historical structure, wild life sanctuary in the vicinity, storm water disposal point with levels, cross-section details of nallah, recording spot levels, top level of nearest state highway or National Highway, including providing in tabulation girth wise no. of trees etc as specified, plotting and developing topographical contour maps, showing true north including establishing survey reference stations, key plan etc. including all equipment's, instruments, personnel's, clearing of bushes as per requirement for intervisibility to carry out survey work etc. , complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of drawings/map and supply of electronic files. Note: Survey work shall be carried out by survey agency approved by Contractor and sample spot witness of levels cordinates by PMC, and shall be submitted to PMC/Owner for review.Survey drawing will be provided in A0 size with clear visibility of all the spots/levels/ contoure and Bench marks. Permanaet bench mark will be stabished at site in a 450x450 mm size 600mm high bick masonry piller.	4220	M2	45.00	1,89,900.00
298	**GEO TECHNICAL INVESTIGATION (Z/02/0022)**				
299	Conducting soil investigation with boring including all field tests and laboratory tests, mobilization and demobilization of equipments & personnel etc. for soil investigation for each borehole location. complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of Reports & recommendations and supply of electronic files.	5	Nos	6,300.00	31,500.00
300	**ANTI-TERMITE TREATMENT**				
301	Supplying chemical emulsion in sealed containers including delivery as specified in the Technical Specifications.				
302	Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	200	LITRE	810.00	1,62,000.00
303	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
304	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc. as per Techinal specifications and direction of engineering in charge: With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	80	METRE	630.00	50,400.00
305	Treatment of soil under floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the floor:				
306	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	250	SQM	360.00	90,000.00
307	Supply and installation 60mm dia GI pipe for column support of gate	15	M	2,700.00	40,500.00
308	Supply and installation 100mm dia MS pipe	15	M	3,060.00	45,900.00
309	Supply and installation 50mm dia MS pipe	15	M	180.00	2,700.00
310	Supply and installation of U-PVC pipes (working pressure 4 kg / cm²) Single socketed pipe 75 mm dia for weep holes	200	M	144.00	28,800.00
311	**Sub-Total Section C**				**125.00**

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312	**SECTION-D [CATHODIC PROTECTION WORKS]**				
313	**CATHODIC PROTECTION SYSTEM**				
314	**Cathodic Protection system**				
315	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning & Monitoring of the temporary cathodic protection [TCP] system using galvanic anodes to protect the external surface of the pipeline against soil-side corrosion for minimum 2 year or till commissioning of permanent CP system whichever is later . All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard drawings and vendor list as attached with this tender and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	22,50,000.00	22,50,000.00
316	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning of permanent cathodic protection system for 40 years. The scope of work also includes post commssoning surveys and repair of coating/ rectification of cathodic protection system based on the post commissioning surveys. In additon to the same, AC Interference study on the pipelines to be performed and mitigation measures takes to the satisfaction of Owner/ CONSULTANT. All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard and vendor list attached and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	41,22,000.00	41,22,000.00
317	**Sub-Total Section D**				63,72,000.00
318	**SECTION-E [ELECTRICAL WORKS]**				
319	**ELECTRICAL**				
320	**SWITCH BOARDS / UPS SYSTEM/ PANEL**				
321	Supply , Installation, testing and commissioning of LT Switch-boards, AC UPS system with UPS Distribution board & Ni-Cd Battery banks , distribution boards, cubicles with electrical equipment, misc. electrical panels etc., including transportation from store/yard to site at the place of installation, unpacking, assembly, including mounting and wiring of loose parts supplied by equipment vendor, interconnection of shipping sections and requisite inter-panel wiring between shipping sections, including supply of all wiring materials, installation on foundations or fixing to wall or steel structures, aligning, levelling, grouting, including all labour and materials, as per approved drawings, specifications of this tender and directions of Engineer-in-Charge.				
322	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted MEDB	1	Nos	7,20,000.00	7,20,000.00
323	Supply , erection , termination , earthing and commissioning of wall mounted OLDB as per single line diagram of DT stations	1	Nos	1,80,000.00	1,80,000.00
324	Supply , erection , termination , earthing and commissioning of wall mounted ILDB as per Single line diagram of DT stations	1	Nos	1,80,000.00	1,80,000.00
325	Supply , erection , termination, earthing and commissioning of wall mounted SSDB as per Single line diagram of DT stations	1	Nos	2,70,000.00	2,70,000.00
326	Supply , erection , termination , earthing and commissioning of wall mounted AC DB as per Single line diagram of DT stations	1	Nos	1,44,000.00	1,44,000.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Tolani Projects Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
327	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 6 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of DT stations	1	SET	27,00,000.00	27,00,000.00
328	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for DT stations.	1	SET	63,00,000.00	63,00,000.00
329	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 1 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of RT stations	1	SET	9,00,000.00	9,00,000.00
330	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for RT stations.	1	SET	18,00,000.00	18,00,000.00
331	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted Emergency DB	1	Nos	6,30,000.00	6,30,000.00
332	Supply , erection , termination , earthing and commissioning of 32A, 4P, 25kA Auto Change-Over switch as per Single line diagram of DT station-JHARIA	1	Nos	9,90,000.00	9,90,000.00
333	**POWER AND CONTROL CABLE**				
334	Supply , laying , termination , erection and testing of 1.1 KV Power and control FRLS PVC Outersheath, XLPE insulated, armored Cables . Outdoor cable will be laid in buried cable trench and in Indoor cable will be laid in Cable trench by provision of Cable tray and supports inside the trench as per PTS - Electrical package P.017110 G 11077 E002				
335	3.5C x 95 sqmm AL FRLS XLPE	300	M	900.00	2,70,000.00
336	3.5C x 70 sqmm AL FRLS XLPE	300	M	8,100.00	24,30,000.00
337	3.5C x 50 sqmm AL FRLS XLPE	50	M	720.00	36,000.00
338	3.5C x 25 sqmm AL FRLS XLPE	100	M	540.00	54,000.00
339	4C x 16 sqmm CU FRLS XLPE	100	M	810.00	81,000.00
340	3C x 2.5 sqmm CU FRLS XLPE	170	M	360.00	61,200.00
341	3C x 6 sqmm CU FRLS XLPE	250	M	540.00	1,35,000.00
342	4C x 6 sqmm CU FRLS XLPE	350	M	594.00	2,07,900.00
343	2C x 6 sq.mm CU FRLS XLPE	100	M	522.00	52,200.00
344	2.5 sqmm Cu. Wire	1800	M	90.00	1,62,000.00
345	6 sqmm Cu. Wire	600	M	144.00	86,400.00
346	**Earthing & Lightning**				

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347	Supply , Installation , testing and comissioning of GI Earth electrodes & Cu plate type earth pit complete with earth pit as per IS 3043, PTS-Electrical package and all necessary material including exacavation of earth pit , filling with charcol and salt , back filling, brick work , connections including all labour and materials as approved drawing and specification of this tender and direction of Engineer-In charge.				
348	GI Earth Electrodes				
349	65mm dia x 3000 mm L GI pipe electrode type Earth pit	17	Nos	22,500.00	3,82,500.00
350	**Cu plate Earth Electrode**				
351	600x600x3mm Cu plate type Earth pit	8	Nos	27,000.00	2,16,000.00
352	**Earth strip and wire**				
353	50x 6 mm GI Flat strip	850	M	360.00	3,06,000.00
354	25 x 6 mm Cu Flat strip	50	M	900.00	45,000.00
355	2.5 Sqmm Cu wire	250	M	90.00	22,500.00
356	25 x 6 mm GI Flat strip	200	M	270.00	54,000.00
357	10 Sq.mm earthing cable	250	M	270.00	67,500.00
358	GI Earth Bus 50x 6 Sq.mm with all installation assesories	3	Nos	2,250.00	6,750.00
359	Cu. Earth Bus 50x 6 Sq.mm with all installation assesories (in control room)	4	Nos	4,410.00	17,640.00
360	25x3 mm GI Flat for Lightning as well as down conductors for DT station as per overall earthing layout and GGNG-E-20713-3007	80	M	225.00	18,000.00
361	Other lightning assesories like 20mm dia copper rod, hollosphere ,200x200x6mm ms plate ,anchor/fastner ,test links for DT station as per overall earthing layout and GGNG-E-20713-3007	1	LOT	1,80,000.00	1,80,000.00
362	**OUTDOOR Lighting**				
363	Supply , erection , Testing & commissioning of Outdoor area lighting system including with supply of flameproof / weather proof light fixture , pole , junction box and earthing including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender & Overall outdoor lighting layout of DT & RT station and directions of Engineer- In charge.				
364	100W FLP LED Fixture & FLP Junction box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	4	Nos	54,000.00	2,16,000.00
365	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	2	Nos	1,44,000.00	2,88,000.00
366	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in RT Stations.	7	Nos	1,44,000.00	10,08,000.00
367	1x160W FLOOD LED Fixture with weather proof junction box & 9 mtr high pole with all assesories for open area	6	Nos	72,000.00	)00.00

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368	1x70 W Solar type Street LED Fixture with weather proof junction box, VRLA Battery (72 hrs backup time) & 9 mtr high pole for street lighting	4	Nos	1,26,000.00	5,04,000.00
369	1x27 W Post Top Lantran LED Fixture for Gate with weather proof junction box for Gate lamp	2	Nos	16,200.00	32,400.00
370	1x36 W LED industrial fixture suitable to building parapet /wall with all assesories like weather proof junction box/clamp/reducer/	2	Nos	22,500.00	45,000.00
371	**INDOOR Lighting**				
372	Supply, erection, Testing & commissioning of Indoor building area lighting system including with supply of light fixture, point wiring including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender and directions of Engineer- In charge.				
373	2x20 W LED recessed decorative fixture for control room	5	Nos	9,000.00	45,000.00
374	2x20W LED Industrial Fixture for Electrical room	2	Nos	9,000.00	18,000.00
375	1x40W LED Flameproof Fixture for Battery room	1	Nos	21,600.00	21,600.00
376	2x18W LED Industrial Fixture for Varanda/Toilet/ water cooler area/ Guard room	6	Nos	8,100.00	48,600.00
377	1x36W LED Industrial Fixture	4	Nos	14,400.00	57,600.00
378	2x20 W LED recessed decorative fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) control room.	2	Nos	22500	45,000.00
379	2x20W LED Industrial Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Electrical room	2	Nos	22,500.00	45,000.00
380	1x40W LED Flameproof Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Battery room	1	Nos	25,200.00	25,200.00
381	**Switch socket**				
382	Supply and Installation of single/ three phase Switch socket as per Indoor Illumination layout for DT & RT and PTS-Electrical Package and directions of Engineer-In Charge				
383	5/15A surface type switch socket (1 Ph)	7	Nos	630.00	4,410.00
384	5A flush type switch socket (1 Ph)	4	Nos	720.00	2,880.00
385	16A Switch socket (I Ph)	3	Nos	1,440.00	4,320.00
386	20A Switch socket for AC (1 Ph)	4	Nos	1,800.00	7,200.00
387	Flame proof Junction box for Exhaust fan in Battery room	2	Nos	1,800.00	3,600.00
388	32A Switch socket for welding receptacles (3 Ph)	1	Nos	14,400.00	400.00

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389	Modular switch board	12	Nos	1,350.00	16,200.00
390	**FANS and Exhaust FAN**				
391	Supply ,Installation and testing of Ceiling Fan and Exhaust fan with louvers including all labours and materials as per Indoor Illumination layout for DT and PTS-Electrical Package and directions of Engineer-In Charge				
392	Ceiling Fan 230V AC 1200 mm sweep	3	Nos	8,100.00	24,300.00
393	450 mm FLP Exhaust Fan for Battery room	2	Nos	27,000.00	54,000.00
394	200 mm Exhaust Fan for Toilet	1	Nos	7,200.00	7,200.00
395	300 mm Exhaust Fan for Electrical room/ CO2 room	3	Nos	9,000.00	27,000.00
396	**Air conditioning unit**				
397	Supply ,Installation and testing of Five star 1.5 Ton Split AC with outdoor compressor unit including all labours and materials as per Typical Indoor Illumination layout for DT and directions of Engineer-In Charge				
398	Split Air condition Five star 1.5 Ton	4	Nos	1,08,000.00	4,32,000.00
399	**Hardware and other Accessories**				
400	Supply and Installation of Hardware and other accessories including all labours and materials as per Tender specification PTS-Electrical Package P.017110 G 11077 E002 and directions of Engineer-In Charge				
401	Rubber mat	15	M	2,700.00	40,500.00
402	Rubber hand gloves	1	PAIR	3,600.00	3,600.00
403	Warning Marker	1	Nos	4,500.00	4,500.00
404	PVC Conduit with bend ,tee and other required assesories	1	LOT	1,08,000.00	1,08,000.00
405	CAUTION Board & Sock treatment chart	1	Nos	2,700.00	2,700.00
406	Cable route marker as per Standard drawing TE-IN-STD-G-0327	1	LS	81,000.00	81,000.00
407	Fire extingusher and SAND Bucket with Stand	1	SET	22,500.00	22,500.00
408	Ladder type Cable tray - hot dip Galvanized Prefabricated 450 mm wide	55	MTR.	2,250.00	1,23,750.00
409	Perforated type Cable tray hot dip Galvanized Prefabricated 450 mm wide	35	MTR.	2,700.00	94,500.00

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410	Cable Glands				
411	Cable Glands : Flame proof IIA/IIB double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
412	Cables with upto OD 20 mm & above OD 20 mm as per Single line diagram of DT & RT station	1	LOT	54,000.00	54,000.00
413	Cable Glands : Weather proof double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
414	Cables with upto OD 20 mm to 40 mm as per Single line diagram of DT & RT station	1	LOT	81,000.00	81,000.00
415	**Sub-Total Section E**				**2,37,50,550.00**
416	**SECTION-F [INSTRUMENTATION WORKS]**				
417	**INSTRUMENTATION**				
418	**SUPPLY**				
419	Supply of Pressure Transmitter along with 2 valve manifolds with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	63,000.00	3,15,000.00
420	Supply of Pressure gauge including high range along with 2 valve manifolds with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	18	Nos	27,000.00	4,86,000.00
421	Supply of Pressure gauge including Low Range along with 2 valve manifolds, gauge saver with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	3	Nos	27,000.00	81,000.00
422	Supply of temperature element (RTD) along with flanged thermowell mounted for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	33,300.00	1,66,500.00
423	Supply of Temperature Transmitter with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	7	Nos	54,000.00	3,78,000.00
424	Supply of skin type temperature element (RTD) for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I003), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	2	Nos	27,000.00	54,000.00

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425	Supply of Local control panel with all accessories as per Data sheet (P.017110 G 11087 I011), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, SAT of local control panel,supports/ frame fabrication, earthing and screwing plug for unused entries, painting and integration with RTU. Termination of all Other panel SCADA hard wired signal including RS-485 signals through LCP for RTU/SCADA by Bidder. 1. Digital Barriers 2. Analog Barries 3. Relays 4. three poisition selector switch 5. LED indication lamps 6. Push buttons 7. terminal blocks 8. internal wiring 9. MCBs 10. Door switches 11. cooling Fan 12. LED lights	2	Nos	14,40,000.00	28,80,000.00
426	Supply of Ex-proof junction box with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, iincluding Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.	4	Nos	23,400.00	93,600.00
427	Supply of Corrosion Monitoring system with corrosion coupon, Corrosion probe, transmitter and digital indicator (mounted in LCP) as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
428	Corrosion coupon along with accessories.	2	Nos	5,40,000.00	10,80,000.00
429	Corrosion probe along with transmitter, digital indicator, barriers and accessories.	2	Nos	12,33,000.00	24,66,000.00
430	Supply of Conventional Type Microprocessor based fire detection system along with smoke detector, heat detector, cabinet, manual call point, Independent 24 Hrs battery backup with 15 min in alarm state, repeater panel and Electrical Operated Siren, exit signs and cables fromsensor ,MCP, siren, hooter to controller as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
431	Controller along with cabinet along with cabling	1	Nos	2,07,000.00	2,07,000.00
432	Multisensor (smoke & heat)	10	Nos	6,300.00	63,000.00
433	WP IP 65 Manual call points	6	Nos	6,030.00	36,180.00
434	Ex Proof and WP IP 65 Manual call point	1	Nos	21,600.00	21,600.00
435	WP Hooter & Flasher	1	Nos	33,300.00	33,300.00
436	Repeater panel	1	Nos	1,08,000.00	1,08,000.00
437	Exist sign	6	Nos	1,800.00	10,800.00
438	Electrical siren Exd	1	Nos	63,000.00	)00.00

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439	24 Hrs battery backup	1	Nos	9,900.00	9,900.00
440	Supply of Conventional type gas detection system along with controller, ex proof point gas detectors, beacon hooter, flasher, , cabinet, portable gas detector, calibration kit, alignment kit as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
441	Controller with cabinet	1	Nos	4,50,000.00	4,50,000.00
442	Point gas detectors	12	Nos	1,62,000.00	19,44,000.00
443	Panel Mounted hooter	2	Nos	54,000.00	1,08,000.00
444	Dual tone Hooter & Beacon Ex"d" with reset push button	2	Nos	27,000.00	54,000.00
445	Portable gas detecotrs	1	Nos	81,000.00	81,000.00
446	Calibration kit	1	Nos	72,000.00	72,000.00
447	Ex d Junction Box	2	Nos	27,000.00	54,000.00
448	Supply of Universal type Hand Held Configurators for transmitters with carrying case, rechargeable batteries (one working and one standby), and battery charger as per Data sheet,PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work	1	Nos	4,41,000.00	4,41,000.00
449	Supply of Instrumentation signal cable, control cable, communication cable/LAN cable, Power cables along with all sizes cable glands (WP & Exd), PVC hood, lug, ferrule, etc including Cable laying (buried as well as tray) along with termination, glanding, meggering and loop checking including supply of ferrule, lugs, cable tie, cable clamp, cable marker etc. as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.				
450	1Px 1.5mm2	500	MTRS.	270.00	1,35,000.00
451	12Px 0.5mm2	900	MTRS.	900.00	8,10,000.00
452	1Qx1.5mm2	30	MTRS.	306.00	9,180.00
453	12Tx1.5mm2	200	MTRS.	900.00	1,80,000.00
454	1Tx1.5mm2	180	MTRS.	360.00	64,800.00
455	6Px0.5mm2	200	MTRS.	450.00	90,000.00
456	2Px1.5mm2	200	MTRS.	333.00	66,600.00
457	Cat 5 (LAN)	160	MTRS.	207.00	33,120.00
458	3C x 2.5mm2	240	MTRS.	540.00	1,29,600.00

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459	Supply & laying of Instruments cable tray with tray cover (Branch Cable tray (50mm x 50mm), Main cable tray 900 mm, cable tray 300mm, cable tray 150 mm.) as per requirement, instruments/ PGD, CCTV/ mounting poles, instrument protection sun sheds, angles, channels, MS plates & all the erection materials and as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including installation of support, cable clamping, installation of tray cover and support painting.	1	LS	2,97,000.00	2,97,000.00
460	Supply , installation & laying of tubes and fittings as per requirement and as per PTS-Instrumentation with appendices and Scope of Work C&I. SS 316L TEE (1/2", Class 3000#, Screwed, NPTF, Seamless) ,SS316L GLOBE/BALL VALVE (1/2", Class 800#, Screwed, NPTF, Seamless), SS316L PLUG (1/2", Screwed, NPTM, Hex head, class 3000#), SS316L PIPE NIPPLE (½" NPTM, seamless, schedule #160) Length of the pipe nipple as per requirement, SS316L MALE CONNECTOR (1/2" OD x 1/2" NPTM), SS316L FEMALE CONNECTOR (1/2"OD x 1/2" NPTF), SS316L UNION (1/2" OD), SS316L TUBE (1/2" OD x 0.065" WT), SS316L TUBE (1/4" OD x 0.035" WT)	1	LS	9,90,000.00	9,90,000.00
461	Supply of mandatory spares as per Mandatory Spare (P.017110 G 11075 I001)	1	LS	1,80,000.00	1,80,000.00
462	AT Jharia - Installation of metering skids, metering cabinet under the supervision of skid supplier, cable laying and terminal of cable from skid junction box to metering system cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	3,33,000.00	3,33,000.00
463	At Jharia Installation of gas chromatograph skid, analyser & controller cabinet under the supervision of skid supplier, cable laying and terminal of cable from analyser cabinet to controller cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	3,33,000.00	3,33,000.00
464	At Jharia Installation of H2S & Moisture analyser skids, cabinet under the supervision of skid supplier, laying and terminal of cable from skid field mounted cabinet to LCP/RTU. Including supply of all the required erection, fabrication and civil materials.	1	LS	3,33,000.00	3,33,000.00
465	At SV 28 Spare Input output available in existing RTU, internal wiring at site, field connection, configuration and commissioning., interfacing with LCP and configuration of new parameters in existing RTU, as per Scope of Work.	1	LS	45,000.00	45,000.00
466	**Sub-Total Section F**				**1,57,86,180.00**
467	**SECTION-G [TELECOM WORKS]**				
468	Supply Telecommunication system, SDH equipment STM-4 Based SDH Cabinet of (2000H x 800W x 800W along with 100 mm base frame) as per below configuration: - 2*STM-4 + 2*STM-1 + 8FE ports as per PTS-Telecommunication system (P.017110 G 11077 I002), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including erection, testing, integration with existing NMS at Noida, Commissioning and integration with existing telecom system at SV 28 additional SFP of L4.2 for SV 28 connectivity	1	Nos	12,60,000.00	12,60,000.00
469	Supply of CCTV-IP based Fixed colour camera and PTZ colour camera along with power cable, communication cable at each station as per PTS-Telecommunication system (P.017110 G 11077 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work., including erection, testing, integration with existing VMS at Noida, Commissioning and integration with existing telecom system at SV 28				
470	Fixed Camera WP IP65	1	Nos	36,000.00	36,000.00
471	PTZ camera WP IP65	1	Nos	81,000.00	81,000.00
472	Supply of one Analog phones control room, one number in guard room and one number WP IP66 in field safe area as per PTS-Telecommunication system (P.017110 G 11077 I002) , PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work				
472	Analog Phone	2	Nos	2,700.00	400.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Tolani Projects Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
474	Analog Phone Ex Proof WP IP 65	1	Nos	9,000.00	9,000.00
475	FXO cards	1	Nos	6,300.00	6,300.00
476	FXS	1	Nos	6,300.00	6,300.00
477	Five pair armoured telephone cable, size 0.5mm2	100	MTR.	72.00	7,200.00
478	AT Jharia- Free issue RTU by GAIL: Transportation from Gail store to site location, installation, cabling from LCP to RTU, commissioning etc. Erection, installation of RTU inside the station control room including supply of all the required erection materials, fabrication and civil works	1	LS	5,04,000.00	5,04,000.00
479	At SV 28 Spare Input output available in existing RTU, internal wiring at site, field connection, configuration and commissioning., interfacing with LCP , cable laying from LCP to RTU, and configuration of new parameters in existing RTU, as per Scope of Work.	1	LS	45,000.00	45,000.00
480	**Sub-Total Section G**				**19,60,200.00**
	Total of Section A + B + C + D + E + F + G				**15,91,95,033.00**
479	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Total of Section A + B + C + D + E + F + G above	18	percentage	18	2,86,55,105.94
480	Rate of Extended Stay Compensation per month beyond the time schedule and grace period mentioned in Bidding document for reasons solely attribute to Owner (exclusive of GST) Notes:- 1;- Extended Stay Compensation shall be loaded on the quoted price as per evaluation methodology. 2;- In case, no rate for extended stay compensation is stipulated, it will be considered that extended stay compensation is not required by the Bidder and the rates quoted by them shall be valid till completion of works in all respects.	1	Nos	11,70,000.00	11,70,000.00
481	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Extended Stay Compensation at Sl. No. 480 above	18	percentage	18.00	2,10,600.00
	Grand Total				18,92,30,738.94

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Vichitra Constructions Pvt. Ltd.

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				UNIT RATE	TOTAL RATE
1	**SECTION-A (MAIN LINE WORKS)**				
2	**CH.0.00 KM to CH.5.667 KM**				
3	**MAINLINE, PIPING AND MECHANICAL**				
4	PIPELINE LAYING / INSTALLATION Laying/ installation of coated line pipe, associated fittings and accessories, etc. as per specifications, drawings, other provisions of Contract and instructions of Engineer-in-Charge, including but not limited to carrying out the following: "Receiving and taking-over", handling, loading, transportation and unloading of Owner supplied coated and bare line pipes and other Free Issue Materials from Contractor's own stock-yard to Work site including stringing on the pipeline Right-of-Use (ROU), Arrangement of all additional land required for Contractor's storage, Performing the additional survey wherein survey data is not sufficient in the opinion of Contractor, arrangement of working RoU if RoU width is not sufficient for equipment/ vehicle movement etc., access for construction (other than Owner provided ROU; Developing necessary access way to the worksite, including earth filling, levelling, etc.; supply of all materials (except Owner supplied materials), supply of all materials, consumables, equipment, labour, etc.; fabrication, Staking and installation of construction markers, clearing, grubbing, grading (as required) of Right of Use; clearing and grading of ROU; Cutting/ uprooting of shrubs, plants, vegetation within ROU; , Trenching to all depths and to a width to accommodate the pipeline with optical fiber cable (inside HDPE Duct) by excavation in all types of soil (in case of hard rock, additional payment for hard rock breaking will be paid as per separate SOR line item), including additional trenching for seismic and other areas as specified,(Rate for laying of optical fibre cable and HDPE Duct not be included here and same to be quoted against separate SOR item); Carrying out repairs of pipe and coating defects not attributable to Owner; Thorough internal cleaning of all pipes by suitable methods to remove debris, shots, grits etc.; Stringing of line pipes along ROU including providing straw bags, soft padding/sand padding; Aligning, cold field bending, cutting and beveling (as required) of pipes for welding and field adjustments, NDT & NDT of re-beveled area, welding, carrying out destructive & non- destructive testing of welds required as per approved NDT specifications (including radiography) and providing all requisite equipment, labour, supervision, materials, films, consumables etc.; carrying out repairs of weld joints as required, carrying out re- radiography and other non-destructive tests on repaired joints, etc.; Installation of carrier pipe including concrete coated pipes (wherever required).				
5	(Concrete Coating on pipes, covered separately) at all crossings including roads/ canals/ nala/ water crossings etc. (supply and installation of casing pipe by open cut or by Jacking/ boaring method covered separately) including pre-testing as required; Carrying out installation of carrier pipe in the casing pipe at cased crossings; Coating of all field weld joints, long radius bends (fabrication of Cold field bends covered here and fabrication of 6D bends by induction heating covered separately), buried fittings etc.; Supply & Installation of warning tape along the entire length of Pipeline including Crossing. Lowering the pipelines in trench, providing required padding over and around the pipeline with sand/graded material (in rocky areas), backfilling with available approved excavated material and/or other suitable soil (supply and providing of soft soil for pre & post padding in Rocky area); Supply and installation of slope breaker as per specifications and drawings in steep slope areas, wherever required; Carrying out hydrostatic testing including air cleaning, flushing, filling, gauging, pressurization of complete pipeline in various test sections as approved by Engineer-In-Charge to the specified test pressure, providing all equipment, pumps, fittings, instruments, dead weight tester, all types of pigs etc., and services, supervision, labour, consumables, arranging water required for hydrostatic testing including supply of corrosion inhibitor, air, etc. as required, locating of leaks and rectification of defects attributable to Contractor, re-testing after rectification, successful completion of hydro-testing of pipeline (De-watering covered else where in the SOR); including all tie-in(s) with the pipeline/ piping installed by others including cutting of test header, re- beveling as required; Carrying out all temporary, ancillary, auxiliary works and all incidental works required to make the pipeline ready for pre- commissioning; Carrying out EGP for the entire stretch of completed pipeline, Repair of defects recorded during EGP/gauge plate run or otherwise including cutting, beveling, welding, NDT, field joint coating etc.; as applicable, Final clean-up and restoration of right of use including obtaining NOC from respective statutory authorities as required and disposal of debris and returning all surplus material to designated disposal areas/storage yard, as directed by Engineer-In-Charge; Restoration of land, facilities and boundary wall etc. at associated facilities dismantled/damaged by the Contractor during construction; Obtaining work permits/ NOC from various statutory authorities having jurisdiction and complying with all stipulation/conditions/recommendation of the said authorities; Preparation of as-built drawings, pipe-book and other records. SOR shall be read in conjunction with Project drawings, scope of work, specifications, standards and other provisions of contract document. The work includes the Survey data & site preparation, Stringing/Chainges in direction, Beveling of pipe element, Welding Procedure Qualification & Welders Qualification, Welding of pipe element, Inspection & testing of production welds, Field joint coating, controlled blasting, chiseling, etc., Material hand over & material handling, Lowering-in & ballasting, All crossings except HDD as mentioned in Crossing List (including installation of carrier pipe inside the Casing at cased crossing), Backfilling (for all depths in all types of soil, soft /hard rock), including trench padding with sand, graded earth in rocky areas & rock shield(if required as per specs) reinstatement				
6	All above works shall be executed in accordance with scope of work, GTS, PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. 1. Supply and Installation of OFC and HDPE Ducts along the entire pipeline route, adjacent to the new pipeline, along with all required accessories, fittings and associated items, is covered separately in the SOR. All above works for buried pipeline (including hook-up pipeline from Tap Off Point inside ONGC GCS, Jharia upto proposed plot for GAIL DT), as per following details :				
7	ND 8", API5L X60 - 6.4 mm	4250	M	2,200.00	93,50,000.00
8	ND 8", API5L X60 - 7.1 mm	1588	M	2,300.00	[illegible]400.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

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9	Concrete slabs (Mechanical Protection) as per technical specifications Supply, fabrication and installation of reinforced concrete weights. Reinforced steel size should be 8 mm. top and bottom at a rate of 200 mm c/c of precasted RCC 1:2:4 on pipeline of wall thickness of 75 mm thick and size as per specifications & Standard drawings and instructions of Owner/ Owner's representative including supply of consumables, materials, equipment, labor, supervision, all associated civil works.	110	M	1,500.00	1,65,000.00
10	Continuous Concrete Coating Supply of all consumables and materials, equipments, manpower, submission of application procedure with calculations for anti-buoyancy, design mix procedure qualification and application of continuous concrete weight coating thickness mentioned below (higher also, in case design requirements) on pipeline of all thickness, concrete weight coating of the field joints thereof, and performing all works as per specifications and instructions of Owner/Owner's representative and other provisions of CONTRACT DOCUMENT.				
11	25 mm thick	12	M	1,500.00	18,000.00
12	30 mm thick	12	M	1,700.00	20,400.00
13	GEO TEXTILE BAGS FOR ANTI-BUOYANCY				
14	Additional works over and above item no. 4 to 8 for design, manufacture and supply of Non-biodegradable geo-textile bags and installation of geo-textile bags duly filled with gravel/ stone ballast on pipelines of all wall thicknesses for anti-buoyancy, drawings, scope of work and instructions of Engineer-in-Charge and other provisions of the Contract document.				
15	ND 8" (for all thicknesses)	12	M	1,500.00	18,000.00
16	Permanent Markers Supply, fabrication and installation of following types of permanent markers along the pipeline route including all associated civil works such as excavation in all types of soil, construction of pedestals and grouting with concrete, clearing, supply & application of approved color and quality of primer and paint, stencil letter cutting for numbers, direction, chainage, etc. restoration of area to original condition and performing all works as per drawings, specifications and instruction of Owner/Owner's Representative.				
17	Pipeline Warning Signs	14	Nos	5,500.00	77,000.00
18	Right-of-way boundary markers	22	Nos	1,200.00	26,400.00
19	Kilometer Markers	4	Nos	5,500.00	22,000.00
20	Aerial Markers	1	Nos	5,500.00	5,500.00
21	Directional Markers	69	Nos	5,500.00	3,79,500.00
22	Repair of Defects in Pipe Coating (Attributable to OWNER)				
23	Repair of Line Pipe Coating: Supply of all coating repair materials as per the requirements of the relevant specifications, supply of all consumables, utilities, equipment, and all manpower required, pipe cleaning and surface preparation, repairing of coating defects (resulting in holiday in coating) and testing including all handling, transportation, etc. for line pipes, performing all works necessary for the completion of the works strictly in accordance with the relevant specifications and instructions of OWNER.				
24	Repair of Holidays in Coating	20	Nos	125.00	2,500.00
25	Repair of Cosmetic Defects in Coating: Description of same as in item no 23 above, but for repair of cosmetic defects in coating.	30	m3	100.00	3,000.00
26	**Repair of Defects in Line Pipes**				
27	Repair of OWNER supplied pipes of all wall thicknesses, recorded at the time of taking-over by CONTRACTOR at all places of work.				
28	Cutting and rebevelling	15	Nos	1,000.00	15,000.00
29	Jack out method	15	Nos	1,000.00	15,000.00

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30	All works for locating burst (occurred during hydrostatic testing and tightness test attributable to Owner issued materials) including detecting burst, necessary repairing/replacing defective pipe lengths, including cutting out and removing the defective pipe, pretesting the replacement pipe, welding of replacement pipe into mainline and NDT of welding, repair and re-testing of defective welds, coating of welded joints, cleanup, retesting including providing all labor, materials, consumables and inputs other than OWNER supplied materials and performing all works as per drawings, specifications and directions of Owner/ Owner's representative. In case of pinhole leaks not easily detectable all works for locating leak (occurred during mechanical resistance test and tightness test attributable to Owner issued materials) including detecting leak, The Payment will be made as per actual efforts and based on Equipment and manpower Rate provided in SCC . Further replacement & retesting will be paid as above.	2	Per burst	1,000.00	2,000.00
31	LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER) (FOR TERMINAL PIPING) LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER DUE TO FIM) All works for leak/burst (occurring during hydrostatic testing) by necessary repair/replacement of defective pipe length, including cutting and removing out defective pipes, welding, NDT of welds, repair and re-testing of defective welds, painting of welded joints, clean-up, re hydro testing of the pipe segment including providing all necessary equipment, labour, materials, consumables and inputs other than Owner supplied materials and performing all works as per drawings, scope of work, specifications, standards enclosed with the Contract and directions of Engineer-in-Charge. Note: 1. This rate shall be applicable for manufacturing defects in Company supplied materials only.	6	Inch-meter	1,000.00	6,000.00
32	IDLE TIME PRESERVATION OF PIPELINE Preservation of complete pipeline and associated facilities and its maintenance including supply of all consumables, all equipment, man- power, etc., complete as per the requirements of specifications, scope of work, standards, other provisions of Contract document and instructions of Engineer-in- Charge. By filling and pressurizing with nitrogen including supply and maintenance of nitrogen as per following details:				
33	Pipe OD - 8 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - 3 MONTH	6030	M	45.00	2,71,350.00
34	Pipe OD - 8 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - FOR EVERY ADDITIONAL MONTH BEYOND INITIAL 3 MONTHS	6030	M	25.00	1,50,750.00
35	**PRE-COMMISSIONING FOR NATURAL GAS PIPELINES SYSTEM, Carrying out pre-commissioning activities and pre-commissioning checks to the specified acceptance criteria, making the entire pipeline system ready for commissioning (It includes cleaning including magnetic cleaning, Electrical Geometrical Pigging survey, dewatering, swabbing,, pre-drying activity, Golden-tie ins connecting the stations),, supply of all equipment, man-power, consumables, including all type of pigs and required quantity of nitrogen, materials for all temporary works and performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.**				
36	Pipe OD - 8 INCH	6030	M	25.00	1,50,750.00
37	**Commissioning Assistance**				
38	OVERALL COMMISSIONING OF ENTIRE PIPELINE SYSTEM Overall commissioning including system checks, inertisation (as required) and charging of entire pipeline system, including all stations and all associated facilities including notifying the Company that the pipeline system is ready for commissioning; Review of status jointly with the Company and obtaining final clearance for start of commissioning; Development and submission of commissioning procedures, obtaining Company approval thereupon, carrying out overall commissioning of the total pipeline system including all facilities and all necessary coordination/ liaison with other Contractor(s) operations; Carrying out commissioning; Supply of all equipment like Nitrogen vapourisers (as required), along with all piping and instruments, temporary venting/ flaring/draining facilities as applicable, man-power, consumables including pigs and required quantity of Nitrogen (as required); Performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.				
39	Pipe OD - 8 INCH	6030	M	25.00	1,50,750.00
40	PIPELINE INFORMATION MANAGEMENT SYSTEM Providing pipeline information management system using web based software for monitoring pipeline construction progress and providing all "As Built" data & drawings for entire length of pipeline as per specifications enclosed with the tender document.	1	LS	15,00,000.00	15,00,000.00
41	VIDEO FILM & PHOTOGRAPHY OF CONSTRUCTION ACTIVITIES Preparation of high resolution video films with audio commentary and Industrial photography covering all aspects/activities of pipeline construction annotated as required, conversion of same to video DVD/Blue Ray format, submitting three (3) sets of the same as per details in scope of work document	1	LS	1,00,000.00	1,00,000.00
	FABRICATION OF LR BENDS :				

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43	Fabrication of 6D bend / LR (Induction) bends as per the relevant standard & Specification attached with the tender document from free issue linepipes (mother pipe) including but not limited to the following: "Receiving and taking over of free issue linepipes" from GAIL Dump Yard location as mentioned in Scope of Work, carrying out inspection of line pipe at the time of receive taking over in the presence of Company representative, carrying out repair of pipe defects attributable to Contractor after taking over, including supply of consumables & equipments; handling, hauling, transportation and loading/unloading required to transport the mother pipes between place of issue, LR bend fabricator/ manufacturer, intermediate storage as required, and final delivery of fabricated LR Bends to the worksite(s), as per requirement, Manufacturing/ fabricating of LR Bends, as per project requirements and Specifications. LR bends exact angle(s) shall be as per pipeline alignment. Note:- 1. Rate for repairing of defects in linepipes identified and recorded at the time of receiving & taking over i.e. defects attributable to Company shall be quoted separately in the applicable items of the SOR. 2.Loading of Pipe into installation contractor trailer shall be carried out by the GAIL Dumpyard maintenance agency already engaged by the Company.				
44	Bare Pipe ND 8", API5L X60 - 6.4mm	8	Nos	1,00,000.00	8,00,000.00
45	Bare Pipe ND 8", API5L X60 -7.1 mm	15	Nos	1,00,000.00	15,00,000.00
46	**SUPPLY AND INSTALLATION OF CASING PIPE & 6 INCH CS CONDUIT:** Supply and installation of casing pipe and 6 inch CS conduit for OFC by jacking / boring or open cut for rail, road or canal crossings wherever required in all types of soils and terrain separately for carrier pipes and fibre optic cable inside HDPE duct, supply of casing pipes and all other Contractor supplied materials viz. casing insulators and casing end seals as per enclosed drawing, materials for casing vents and drains, etc. including transportation, supply of all other materials, equipments, consumables, man-power, welding including visual inspection of all weld joints, installation of casing insulators, end seals, vents and drain-off pipes, backfilling and restoration as original of the facility crossed and performing all works as per drawings, specifications including PTS and GTS and instructions of Engineer-in Charge and provisions of Contract document.				
47	Supply and installation of Casing pipe by Boring / Jacking as per item no. 46 (Railway crossing) Casing Pipe Details: (Pipe 14" , 8.7 mm Thick, API 5L GR.B)	200	M	17,000.00	34,00,000.00
48	Supply and installation of Casing pipe by Boring / Jacking as per item no. 46 (Other than Railway Crossings) Casing Pipe Details: (Pipe 14" , 6.4 mm Thick, API 5L GR.B)	12	M	17,000.00	2,04,000.00
49	Supply and installation of 6 inch CS Conduit by Boring/Jacking as per item no. 46 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	200	M	6,000.00	12,00,000.00
50	Supply and installation of Casing pipe by open cut as per item no. 46 Casing Pipe Details: (Pipe 14" , 6.4 mm Thick, API 5L GR.B)	12	M	7,000.00	84,000.00
51	Supply and installation of 6 inch CS Conduit by open cut as per item no. 46 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	12	M	3,000.00	36,000.00
52	**HDD CROSSING**				

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M/s. Vichitra Constructions Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
53	**Generalities**				
54	Topographic / Bathymetry, Geotech Investigation and Hydrological data collection				
55	Site preparation				
56	Design & stress calculations as per requirement				
57	Material hand-over and material handling				
58	Site reinstatement				
59	Final dossier including all notes & calculations as required in the specification				
60	***Installation of 6 inch CS Conduit***				
61	Teletransmission--Separate Drilling for 6 inch CS Conduit for OFC installation				
62	Installation of HDPE duct & OFC cable inside 6 inch CS conduit				
63	Drilling & Pulling of 6 inch CS Conduit shall be done before mainline HDD.				
64	***Pipeline string***				
65	Beveling & welding				
66	Inspection & testing of welds				
67	Field joint coating				
68	Temporary support (roller)				
69	Control of pipeline string				
70	Hydrotesting & leak test				
71	***Drilling operation***				
72	Earthwork entry / exit points including grading erection of embankment etc..				
73	Supply & clearing out of all material needed for drilling				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Vichitra Constructions Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
74	Drilling of washer pipe, reaming & cleaning of drill opening, supply and preparation of bentonite				
75	Pull back of the pipe string				
76	Disposal of surplus of soil & bentonite				
77	Control of the integrity of the coating				
78	***Work at entry point***				
79	Changes in direction				
80	Beveling & welding				
81	Inspection & testing of welds				
82	Field joint coating & coating of all bare section of pipe				
83	Earthwork				
84	Lowering-in				
85	backfilling as required				
86	***Work at exit point***				
87	Changes in direction				
88	Beveling & welding				
89	Inspection & testing of welds				
90	Field joint coating & coating of all bare section of pipe				
91	Earthwork				
92	Lowering-in				
93	backfilling as required				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**			**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL**	**Rev.00** **Date-11.02.2022**
				Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**
M/s. Vichitra Constructions Pvt. Ltd.					
S. NO.	**WORK DESCRIPTION AND SUPPLY**	**UNIT**	**QTY**	**PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR**	
94	Complete work for the water/ Road/ Rail crossings, including taking over and handling of linepipes from Contractor Storage Yard to worksite, Arrangement of all additional land required for Contractor's storage, fabrication, access for construction; construction design calculation and engineering of the crossing, mobilization and demobilization at site(s), supply of all materials as per "Scope of Supply" and all consumables, equipment, manpower and other resources, and acquiring the required land for site preparations, and execution of, but not limited to, the following works in accordance with specifications, drawings, and as per provisions of the Contract document and instructions of the Company/ Engineer-in- Charge: Carry out all surveys required for collecting data relevant to design and construction of the crossing, preparation of all necessary construction drawings for Company's approval as per the provisions of the Contractor document, Preparation of detailed construction method statement and calculations including Scour Depth calculations for river/ canal crossings, Strings preparation including welding, 100% Radiography of welds, NDT of welds and re-beveled areas, radiography, weld repair and re-test, pre-testing of completed string, corrosion coating of field joints with Dirax or equivalent, inspection of corrosion coating and repair of defects, Preconstruction surveys and collection of all necessary data, Installation of pipeline and CS conduit (6 Inch CS Conduit shall be installed through Seperate Drilling) , horizontal directional drilling to the correct profile as per approved drawings and specification, Post-installation hydrotest including leaks and repair of defects and retesting, etc. for defects attributed to Contractor's faulty work, Supply, fabrication and construction of protective fencing as required, Hydrotesting, Supply, fabrication and erection of pipeline markers, Restoration and clean-up etc., Preparation of as-built drawings and other records etc., All other works not specifically listed herein, but required as per specifications, drawings, provision of contract document, calculations, and construction method statements, leading to successful completion of works.				
95	Linepipe details:- (Pipe 8" dia, Wall Thickness: 7.1 mm, Pipe Grade: API 5L GR.X-60 PSL 2, External Coating: 3LPE) CS Conduit details: (Pipe 6" dia, 6.4mm Thick, API 5L GR.B) Note: 1. CS Conduit shall be supplied by the Contractor. Radiography & Hydrostatic testing is not required to be done for CS Conduit. (6 Inch CS Conduit shall be installed through Seperate Drilling) Contractor shall quote accordingly. 2. The rate shall be applicable for the drilled length of the HDDs. All above works shall be executed in accordance with scope of work, GTS,PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. This line item is applicable for HDD crossing mentioned in the Crossing List with prior approval of Engineer - In-Charge during Construction.	192	M	28,000	53,76,000.00
96	**SUPPLY & INSTALLATION OF OPTICAL FIBBE CABLE AND HDPE DUCT**				
97	Suppy of 24 Fibre Composite armoured Optical Fibre Cable drum (6 fibre G-655 & 18 fibre G-652) of 4 km +/-5% Cable drum length with fiber terminal closure, inspection chamber, electronic route marker all along pipeline route, Two number electronic locater as per PTS-Optical Fibre cable and Scope of Work C&I along with all required accessories and fitments not mentioned seperately.	7000	M	120	8,40,000.00
98	Inspection/Jointing Chamber (fabricated or readymade)	3	Nos	20,000	60,000.00
99	Blowing Pit (fabricated or readymade)	7	Nos	15,000	1,05,000.00
100	Supply of jointing closure 24 Fiber, 2 way including all accessories (3M, Siemens, Reychem make only)	3	Nos	5,000	15,000.00
101	Supply of End to End OFC termination of wall mounted FTC with pig tails other accessories for termination of OFC - 24 Fibre in the Telecom Room at Jharia & SV28	2	Nos	15,000	30,000.00
102	Electronic marker	3	Nos	3,000	9,000.00
103	Electronic Locator	1	Nos	2,00,000	2,00,000.00
104	Supply of 50mm OD permanently lubricated HDPE telecom duct along with all the required accessories as per PTS-Optical Fibre cable and Scope of Work C&I	7000	M	110.00	)00.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Vichitra Constructions Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
105	Laying of HDPE Duct : Laying of 50mm HDPE Ducts in same pipeline trench direct buried, or inside 6 inch CS conduit at various crossings as per Specification in all type of soil & terrain, excavated as required, padding, backfilling, etc. including supply of accessories required for HDPE Duct installation, including plastic couplers, end plugs, cable sealing plugs, end caps, etc. suitable & sufficient for above supplied ducts, cleaning and sealing of ducts at the end laid drum lengths, preparation and supply of cable blowing pit at each Km jointing of HDPE duct, testing of HDPE Duct and accessories after laying preparation of report and final drawing and documents as per specification, joint location marking, erection accessories, as-built, etc.	7000	M	25.00	1,75,000.00
106	Blowing of Optical Fibre Cable inside HDPE Duct : All activities pertaining to Blowing of Optical Fibre Cable in same pipeline trench directly (after testing drum at site), inside HDPE duct along the pipeline and at crossing, sealing using all materials required as per specification	7000	Nos	40.00	2,80,000.00
107	Installation of FTC & Wire mesh, termination of OFC on FTC / DDF inside telecom room, splicing with steet fibre, fibre test, OTDR test, power testing of laid OFC, identification of fault, rectification, earthing, final testing and commissioning, preparation of reports, etc. work complete in all respect with all necessary accessories for all location till final Handing Over and Taking Over by Owner of laid OFC.	1	LS	1,00,000.00	1,00,000.00
108	**TRANSPORTATION OF COATED AND BARE LINEPIPES FROM GAIL DUMPYARDS (ANY LOCATIONIN INDIA) TO CONTRACTOR STORAGE YARD:**				
109	"Receiving and taking over" of "free issue" Linepipes from GAIL Dump Yard location (any location in India); Carrying out inspection of Linepipes at the time of receiving and taking-over, recording of pipe & coating defects at the time of taking over in the presence of Company's representative, carrying out repair of coating defects & pipe defects attributable to Company; including supply of materials, consumables & equipments; handling, hauling and transportation from designated place of issue to Contractor Storage Yard; unloading and stacking of the linepipes at Contractor Storage Yard; including arranging all equipments, trailers, trucks & manpower; all works as per Scope of Work, drawings, PTS, GTS and other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, Provision of Contract & instructions of Engineer InCharge.				
110	Linepipe Details:- Coated and Bare Line Pipe 8" diameter API 5L Gr. X-60 PSL-2 Wall Thickness - 6,4mm / 7.1mm External Coating - 3LPE, Internal Coating - Liquid Epoxy 1) Loading of Pipes into Installation contractor's trailer shall be carried out by the contractor. 2) Development & Maintenance of Contractor Storage Yard adequate to store the linepipes including arrangement of all Lifting & Handling equipment at Contractor's Storage Yard shall be done by the Contractor. Rate for the same shall be quoted in applicable items. 3) Rate for repairing of coating defects in linepipes identified and recorded at the time of receiving & taking over i.e. coating-defects attributable to Company shall be included in this item. 4) Rate for repairing of pipe-defects identified and recorded at the time of receiving & taking over i.e. pipe-defects attributable to Company shall be quoted separately in the applicable items of the SOR. 5) Transportation of line pipe from Contractor's Storage Yard to work site is included in SOR item 1 above, No separate payment will be applicable for the same.	350000	Ton-Km	25.00	87,50,000.00
111	TRANSPORTATION OF FREE ISSUE PIPING ITEMS (OTHER THAN LINE PIPE) FROM GAIL STORAGE YARDS (ANY LOCATION IN INDIA) TO CONTRACTORS YARD / WORKSITE(S) : "Receiving and taking-over", handling, lifting, loading, transportation and unloading of Company supplied "free-issue materials" (Other than line pipe) viz. Metering Filtering and PRS Skid, Scrapper Launcher/ Receiver & accessories, Valves with or without Actuators, Insulation Joints, Flow Tee, Pig Signallers, fittings, flanges etc. from GAIL Storage yards location (any location in India) to Contractor's Storage Yard / work-site(s). Note:- 1) Location of GAIL Storage Yard shall be anywhere in India. Contractor shall quote accordingly. 2) Transportation of FIM from Contractor's Storage Yard to work site, is included in SOR item 119 below, No separate payment will be applicable for the same.	24000	Ton-Km	23.00	5,52,000.00
112	**DEVELOPMENT OF CONTRACTOR STORAGE YARD:**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Vichitra Constructions Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
113	Development of the Contractor Storage Yard including fencing, illumination etc., including deployment of all lifting and handling equipments, manpower required to stack, unload and load all Free Issue Material (FIM) including Line Pipes and all bought out items, as required; storage of all Free Issue Material and bought out items for the required duration as per project requirement, all works as per Scope of Work, drawings, other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, PTS, GTS and Provision of Contract & instructions of Engineer In-Charge. The storage yard shall be used for storage of all Free Issue Line pipes, all other Free Issure Material (FIM) and all bought out items required for the project. Notes:- 1) Development of contractor storage yard adequate to store all the material required for Project, including all Free Issue Material (FIM) and bought out items. (Rate for the same shall be captured in this item) 2) Maintenance of contractor storage yard for the entire project period is included in the scope of contractor. No separate payment shall be applicable for the same.	1	LS	5,00,000.00	5,00,000.00
114	Hard Rock breaking by controlled blasting / chiseling method (rate will be applicable in case when prior approval for rock breaking is obtained by the contractor from GAIL / PMC)	50	M3	3,500.00	1,75,000.00
115	Clean Agent Fire Supression System as per Scope of Work	1	LS	2,00,000.00	2,00,000.00
116	Restoration of underground utilities (pipes & cables) during excavation at ONGC, GCS Jharia and Receiving Station (which is inside SV-28 Premises)	5	Nos	50,000.00	2,50,000.00
117	**Sub-Total Section A**				**4,17,12,300.00**
118	**SECTION-B [MECHANICAL (PIPING & TERMINAL WORKS)]**				
119	**PIPING WORKS AT DESPATCH AND RECEIVING STATIONS AND HOOK-UP WITH ONGC GCS, JHARIA** All works for installation of all piping at all elevations for Despatch and Receiving Stations as indicated in Drawings, Scope document, including supply of all consumables, Gaskets, nuts, bolts Studs, manpower, materials and equipment (except Company supplied free-issue materials), aligning, grouting, tie-in with pipeline and carrying out all mechanical works of underground and above ground piping including fabrication, welding, installation of all pipes, valves (manual & actuated), flanges, fittings, flow tees, pig signalers, insulating joints, corrosion monitoring probes /corrosion coupons, installation of instruments (pressure/temperature gauges, vents, drains-off, safety relief valves, electro hydraulic valves etc.) as indicated in P& IDs and GADs. 100% Radiography of weld joints of piping above 1.5 inch, Magnetic particle & Die penetration test for piping 1.5 inch & below, all NDT of welds, weld repairs/retesting, hydrostatic testing, cleaning/flushing, functional testing, de-pressurizing , Drying and dewatering, cutting and re-beveling (as required), hookup of all pipeline/utilities at the battery limit with the pipeline/utilities installed by others, obtaining all statutory clearances, approvals and permissions for the work (wherever required), excavation and filling in all types of soils including soft/hard rock for installation of piping/ pipe supports; corrosion coating and external painting (as required), finishing, clean-up and restoration of site, preparation of as- built drawings, documents and project records and performing all works as per drawings, specifications, other provisions of Contract document and instructions of Engineer-in-Charge. Civil/ structural works for piping supports will be paid separately as per unit rate provided elsewhere in the contract. Cost of Transportation of all materials (Including FIM mentioned above) for station works, from Contractor's own stock-yard to Work site, to be included in this SOR item. No separate payment will				
120	Fabrication and Erection of piping as per item no.110, (For Pipe Size 2 Inch and above, 100% Radiography) Note: 1. Rate for Handling, Fabrication and erection of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item. Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor.Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes 2" & above, shall also be part of this item. Contractor shall quote accordingly.	1500	INCH DIA METER	1,000.00	15,00,000.00
121	Fabrication & Erection of Piping as per item no. 110 (For Pipe Size Below 2 inch, Magnetic particle & Dye Penetration Test as per the requirement of specification) Note: 1. Rate for Handling and installation of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item.Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor. Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes below 2", shall also be part of this item. Contractor shall quote accordingly.	50	INCH DIA METER	1,000.00	50,000.00
122	Painting of Piping (Pipe, Fittings, Flanges, Valves, Equipments, etc.) as per item no. 110	1550	ICH METER	200.00	3,10,000.00

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123	Hydrostatic testing, cleaning / flushing, functional testing, de-pressurizing, dewatering & drying of Piping as per item no. 110 (for all size upto 10").	1550	ICH METER	200.00	3,10,000.00
124	**INSTALLATION OF COMPANY SUPPLIED FIM (FML SKID AND PIG LAUNCHER/RECEIVER SYSTEM) AT DESPATCH TERMINAL AND RECEIVING TERMINAL**				
125	Installation of Company supplied Filtering, Metering and PRS Skid and Scrapper Launcher/ Receiver with accessories, at stations including all handling and installation works; as per drawings, specifications enclosed with the Contract and directions of Engineer-in-Charge. Cost of Transportation of above Free issue items, from Contractor's own stock-yard to Work site for station works, to be included in this SOR item. No separate payment will be applicable for the same.	1	LS	5,00,000.00	5,00,000.00
126	**CONTRACTOR SUPPLIED ITEMS:(Supply of Items as per attached PTS,GTS,Data Sheet,QAP and PMS)**				
127	**Station pipe -Seamless**				
128	1" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, PE, SEAMLESS	6	METER	1,500.00	9,000.00
129	2" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	90	METER	2,000.00	1,80,000.00
130	4" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	135	METER	3,500.00	4,72,500.00
131	8" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	50	METER	6,000.00	3,00,000.00
132	8" pipe, 6.4mm thk, ANSI B 36.10, API5L X 60, BE, HFERW/SEAMLESS	29	METER	6,000.00	1,74,000.00
133	10" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	12	METER	8,000.00	96,000.00
134	**Supply of Fitting & Flanges**				
135	1 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 350 LF2,CL1, BW, ANSI B16.25	4	Nos	2,000.00	8,000.00
136	2 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25.	3	Nos	3,500.00	10,500.00
137	1" WNRF FLANGES, 6C1, SCH. 160 / 600#, WNRF, B-16.5, ASTM A350 LF2, CL1, BW-ANSI B16.25 RF	4	Nos	2,000.00	8,000.00
138	8", WNRF FLANGES, 6C2, 6.4 thk/ 600#, WNRF, B-16.5, ASTM A694 F60 OR EQUIVALENT, CL1, BW-ANSI B16.25 RF.	5	Nos	10,000.00	50,000.00
139	1", BLIND FLANGES, 6C1, 600#, RF, B-16.5, ASTM A350 LF2, CL1, RF	4	Nos	2,000.00	8,000.00
140	3/4" EQUAL TEES, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25,	1	Nos	1,800.00	1,800.00
141	3/4", CUP THREADED 6C1, 6000#, ANSI B16-11, ASTM A 350 LF2, CL1 , BW - ANSI B16.25, ANSI B1.20.1,	3	Nos	1,800.00	5,400.00
142	**WELDOLETS (MAINLINE x BRANCH SIZE)**				
143	4" x 1", WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1 ,	2	Nos	5,000.00	10,000.00
144	8" x 2" WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 6.4 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 694 F60	13	Nos	7,500.00	97,500.00

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TRACTEBEL ENGIE			Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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145	8" x 2", WELDOLETS (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	26	Nos	7,500.00	1,95,000.00
146	**GASKETS**				
147	GASKETS, 6C1, 600#, RF, ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 1"	12	Nos	100.00	1,200.00
148	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 2"	210	Nos	200.00	42,000.00
149	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 4"	30	Nos	3,000.00	90,000.00
150	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 8"	47	Nos	1,000.00	47,000.00
151	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 10"	2	Nos	5,000.00	10,000.00
152	**NIPPLES**				
153	NIPPLES, 6C1, Sch 160 /600#, ANSI B 36.10, ASTM A333 GR.6, BOTH ENDS PLAIN, SEAMLESS-LG=100mm, 3/4"	12	Nos	1,000.00	12,000.00
154	NIPPLES, 6C1, Sch 160 / 600#, ANSI B 36.11, ASTM A333 GR.7, ONE END THRD -MNPT SEAMLESS- LG=100mm, 3/4"	8	Nos	1,000.00	8,000.00
155	**INSULATING JOINT**				
156	INSULATING JOINT 6C,16.4 mm (X60) x 600# ,MANUFACTURER STANDARDS ,ASTM A694 F60 ,BW - ANSI B16-25, 8"	2	Nos	1,50,000.00	3,00,000.00
157	**Supply of following Valves as Per attached PTS,GTS,Data Sheet,QAP,PMS & MTO**				
158	1",BALL VALVE - FULL BORE (RF) (ABOVE GROUND),6C1	6	Nos	8,000.00	48,000.00
159	3/4", CHECK VALVE (RF) (AG), 6C1	2	Nos	7,000.00	14,000.00
160	3/4",NEEDLE VALVE, 6C1	5	Nos	7,000.00	35,000.00
161	**Note (Applicable for all items of SOR Item No 126 to 160):** **1. Before procurement of any of the above materials Contractor will take prior approval from GAIL / PMC.** **2. Payment will be made for actual quantity used.**				
162	**Sub-Total Section B**				**49,02,900.00**
163	**SECTION-C [CIVIL / STRUCTURAL & ARCHITECTURAL]**				
164	**CIVIL , STRUCTURAL & ARCHITECTURAL**				
165	**Earthwork excavation in soil**				
166	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	1770	cum	300.00	5,31,000.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Vichitra Constructions Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
167	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth beyond 1.5m and upto and inclusive of 3.0m including Removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	50	cum	500.00	25,000.00
168	**Earthwork excavation in soft rock**				
169	Earth work in EXCAVATION below ground level for all kinds of works in SOFT ROCK and HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as irected including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	130	cum	2,000.00	2,60,000.00
170	**Backfilling after execution of work**				
171	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps within a LEAD OF 100M,including re-excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/ mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	580	cum	300.00	1,74,000.00
172	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps beyond a LEAD OF 100M AND UPTO & INCLUSIVE OF 500M including re- excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	250	cum	500.00	1,25,000.00
173	**Transporting & Disposing the SURPLUS EARTH AND DEBRIS**				
174	Transporting and disposing the SURPLUS EARTH AND DEBRIS including shrubs and vegetations from construction areas to areas ANYWHERE OUTSIDE THE PLANT BOUNDARY, including re-excavating the deposited soil excavated earlier, loading, transportation, unloading, laying at all depths and heights, stacking,levelling and dressing both the area (viz. from where the earth is transported and where it is deposited) to required levels and slopes complete with all lifts as directed. For carting on the basis of truck measurements (volume of truck reduced by 30% for voids). DISPOSAL AREAS OUTSIDE PLANT BOUNDARY TO BE ARRANGED BY THE CONTRACTOR. Royalty as applicable for disposal outside plant limits to be borne by the Contractor	760	cum	500.00	3,80,000.00
175	**EARTH WORK FILLING BY EXCAVATION**				
176	EARTHWORK IN FILLING by excavating the earth from BORROW AREAS arranged by CONTRACTOR for all leads, transporting the earth from borrow area including cleaning & stripping the earth at borrow areas, breaking clods, loading, unloading and laying at all depths and heights in layers of thickness not exceeding 15 cms., watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% of the maximum laboratory dry density, ressing, trimming, levelling the top surface etc. in foundations, plinths, trenches etc. all complete.	4725	cum	1,000.00	47,25,000.00
177	**PLAIN & REINFORCED CEMENT CONCRETE: (REFER SPECIFICATION NO. (Z/02/0004)**				
178	**PLAIN CEMENT CONCRETE - PCC**				
179	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:4:8 (1 cement : 4 coarse sand (Zone-III) : 8 graded stone aggregate 40 mm nominal size)	105	cum	6,000.00	6,30,000.00
180	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:3:6 (1 cement : 3 coarse sand (Zone-III) : 6 graded stone aggregate 40 mm nominal size)	20	cum	6,300.00	1,26,000.00
181	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:2:4 (1 cement : 2 coarse sand (Zone-III) : 4 graded stone aggregate 20 mm nominal size)	120	cum	7,000.00	)00.00

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
182	Providing and laying PLAIN CEMENT CONCRETE for all depths below and upto plinth level in foundations, drains, fillings, non-suspended floors, pavements & ramps or any other works etc. including shuttering, tamping, ramming, vibrating, curing, etc. all as specified in any shape, position, thickness and finishing the top surface rough or smooth as specified and directed all complete for concrete grade M20 with 20mm and down size graded crushed stone aggregates/Gravels. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR	110	cum	8,000.00	8,80,000.00
183	**RCC WORKS**				
184	**SUBSTRUCTURE**				
185	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUBSTRUCTURE INCLUDING CENTERING & SHUTTERING) e.g. foundations, raft, beams, pile caps, Retaining walls, counterforts, buttresses, pedestals, pipe sleepers, columns, suspended floors, staircases, landings, steps, brackets etc., including equipment/ machine foundations & pedestals viz. compressors, generators, etc. (including single pour concreting as specified on the drawing), applying cement wash on concrete surface (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering, etc., wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT)for all depths below and upto plinth level in any shape, position and thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	615	cum	9,000.00	55,35,000.00
186	**SUPER STRUCTURE - EXCLUDING CONTROL ROOM BUILDING, GUARD ROOM & BOUNDARY WALL**				
187	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUPER STRUCTURE INCLUDING CENTERING & SHUTTERING in suspended floors, slabs, beams, columns, walls including counterforts, staircases, landings, steps, facias, fins, mouldings, gutters, shelves, window sills, canopies, lintels, girders, ducts, brackets, chajjas with drip moulds, pedestals, posts, struts, equipment/ machine foundations, ramps etc. (including single pour concreting as specified on the drawing), providing cement wash (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT) FOR ALL HEIGHTS UPTO & INCLUSIVE OF 20 m ABOVE PLINTH LEVEL in any shape, position, thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	70	cum	9,500.00	6,65,000.00
188	**CONTROL ROOM BUILDING (SUPERSTRUCTURE)**				
189	Construction of Control Room Building as per drawings and specification. Building work for all Superstructure works INCLUDING CENTERING & SHUTTERING , Reinforcement , masonry work, partition wall, Plastering & pointing, flooring, Floor finishes, Door & windows, rolling shutter, false ceiling, all finishes, painting, roof treatment complete in all respect etc.)	215	m2	30,000.00	64,50,000.00
190	**GUARD ROOM (SUPERSTRUCTURE)**				
191	Guard Room as per drawings and specification. Building work for all superstructure works including (Reinforcement, masonry work Plastering & pointing, flooring, Floor finishes, Door & windows, painting, roof treatment, all finishes, water supply and sanitary work complete in all respect etc.)	17	m2	20,000.00	3,40,000.00
192	**HYD Bars / MS Bars**				
193	Supplying and placing in position HIGH YIELD STRENGTH DEFORMED STEEL BARS REINFORCEMENT of Grade Fe500D TMT conforming to IS:1786, for RCC work (excluding control room building & Guard room & boundary wall superstructure) including transporting the Steel, straightening, cleaning, decoiling, cutting, bending to required shapes and lengths as per details, binding with 18 SWG black soft annealed binding wire at every intersection, supplying and placing with proper cover blocks, supports, chairs, overlaps, welding, spacers, fanhooks etc. for all heights and depths etc. all complete as directed. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE	70	MT	1,00,000.00	70,00,000.00
194	**STRUCTURAL STEEL WORKS (REFER TE SPECIFICATION)**				

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M/s. Vichitra Constructions Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
195	Supplying, fabricating and erecting of structural steel and applying COATING (Post-erection/ Field) of approved quality and shade as per TE Specification or Job Specifications, wherever applicable) over the coat of shop primer already applied, including storage, surface preparation, degreasing, cleaning, drying, providing necessary arrangement for access, testing etc. including touching up of shop for steel structures (Including Wicket Gate, Main Gate and emergency gate, excluding ladders, spiral stairways & hand rails) at all location & levels, all complete as specified, for UNIT (INLAND) areas considering environment classification as INDUSTRIAL. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE. (Unit rate based on Structural steel weight)	25.5	MT	1,25,000.00	31,87,500.00
196	**MISCELLANEOUS STEEL WORKS (REFER TE - SPECIFICATIONS)**				
197	MS Chequered Plates				
198	Supplying, fabricating and erecting in position at all levels and locations bolted, screwed and/or welded M.S. CHEQUERED PLATES of any thickness in walkways, platforms, stairtreads or any other place as directed, etc. cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing, welding, preparation and submission of fabrication drawings and preparing the surfaces for painting and applying shop primer as per TE Specification after fabrication and return of unused/ scrap/ unserviceable chequered plates to Owner's store and material reconciliation etc. all complete as specified and directed	1.5	MT	1,50,000.00	2,25,000.00
199	Anchor Bolts				
200	Supplying, fabricating, fixing and keeping in position at all levels and locations THREADED ANCHOR BOLTS of all diameters and nomenclature including nuts, washers, anchor plates, pipe sleeves etc. in foundations, columns, pedestals, slabs, beams, walls etc. or any other place as directed including handling & transporting, straightening if required, turning from relevant size M.S. rounds to required diameter, threading, welding, providing necessary templates and auxiliary dummy structures, if any, necessary tying and welding with reinforcement, adjustment of shuttering & reinforcement/any other fixture, greasing exposed metal surfaces, covering bolts and packing the sleeves with jute cloth etc. all complete as specified and directed.(SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.6	MT	1,25,000.00	2,00,000.00
201	MS Metal Inserts				
202	Supplying, transporting, storing, fabricating and fixing in position M.S. METAL INSERT (with lugs) of any shape made out of flats, plates, rolled sections, pipes etc. providing necessary templates, staging, cutting,straightening, if required, bolting, welding as required and embedding in position on both Plain and Reinforced Cement concrete members inclusive of adjusting shuttering & reinforcement/ any other fixture, welding where necessary, tying and holding to correct level, line and position, any auxiliary dummy structures to support the heavy inserts, painting exposed surfaces with a coat of primer as per TE Specification all complete for all depths and heights as specified and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	0.55	MT	1,50,000.00	82,500.00
203	MS Grating				
204	Supplying, fabricating and erecting in position at all levels and locations ELECTROFORGED GALVANISED GRATING (purchased from approved manufacturer by the Contractor) conforming to TE STANDARD (in walkways, platforms, stair treads etc.) including cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing with manufacturer's supplied galvanised clamps, preparation and submission of fabrication drawings, all complete as specified and directed (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.85	MT	1,75,000.00	3,23,750.00
205	Hand Railing 1000mm				
206	Supplying, fabricating and fixing in position at all locations 1000mm high INCLINED HAND RAILING (for staircases) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade M.S. Tubes conforming to IS:1239 including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE SPEC. preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	1,500.00	15,000.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Vichitra Constructions Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
207	Supplying, fabricating and fixing in position at all locations 1000mm high HORIZONTAL HAND RAILING (for platforms, walkways, etc. or any other location as directed) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade MS Tubes conforming to IS:1239 and 100x5 MS Toe Plate confirming to IS:2062 (Grade A/B), including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE standard drawing & specification, preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	1,500.00	15,000.00
208	**CHAIN LINK FENCING**				
209	Supplying, fabricating and fixing G.I. chain link fencing with 3.5mm dia. wire, 50x50mm diamond mesh chain link fence fabric conforming to IS:2721 fixed to steel/RCC posts/struts above ground level, including supply of chain link fencing fabric in 1.9 metre wide rolls, stretcher bars, staples, etc. required for fixing the fencing, fixing of chain link fencing between straining posts, fixing of bottom of fencing in cement concrete 1:2:4 blocks and painting with synthetic enamel etc. , including supply and fixing line wires, complete as per drawings, specifications and directions of Engineer -in-Charge (All materials shall be supplied by Contractor). (The measurement of chain link fencing shall be on linear basis for 1.9 m wide fencing fabric)	10	M	4,000.00	40,000.00
210	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of the Engineer-in-Charge. Made of G.I. wire of dia. 4 mm, PVC coated to achieve outer dia not less than 5 mm in required colour and shade.	600	M2	150.00	90,000.00
211	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Star' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	200	M	325.00	65,000.00
212	**ROADS & FLEXIBLE PAVEMENT (UPTO WBM LAYER)**				
213	Preparation and consolidation of sub-grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth outside the property boundary in the un-disputed areas as directed by Engineer-In-Charge.	1500	M2	200.00	3,00,000.00
214	Supplying and laying of stone aggregate of 63mm down to 45mm size for WBM layer Base Course, tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 75mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding material of plasticity index upto 6%, including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts etc. complete as per drawings, specifications and directions of Engineer-in-Charge	4500	M2	250.00	11,25,000.00
215	**CONCRETE PAVEMENTS**				
216	Construction of dry lean cement concrete **(DLC) sub base** over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in- charge.	150	cum	7,000.00	10,50,000.00
217	Providing and laying Reinforced Cement Concrete with 20mm and down size graded crushed stone aggregates in flooring, pavements etc. including leaving pockets, if necessary, making recess/drains, laying in alternate panels, etc. for all depths including shuttering, tamping, curing, providing dowel bars with sleeves/tie bars etc where ever required at site. as specified in any shape, thickness, position and finishing the top surface smooth etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For RCC of M-30 grade concrete (all materials including cement but excluding cost of providing & fixing reinforcement and joint sealing shall be supplied by the contractor).	375	cum	8,000.00	30,00,000.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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218	Providing 20mm wide Expansion Joints in pavement slabs as per general technical specification including cleaning the joints of all loose material, filling with 20mm thick impregnated fibre boards for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved Joint Sealing Compound as per IS:1834 Type-B etc. all complete as per drawings, specifications and directions of Engineer-in-Charge	720	M	300.00	2,16,000.00
219	Sealing joint around pedestal and column etc. 20mm wide x 150 mm deep including filling with 20mm thick impregnated fire board for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved joint sealing compound as per IS:1834 Type-B.	300	M	300.00	90,000.00
220	**RCC PIPE CULVERTS & ELECTRICAL ROAD CROSSINGS ETC. (as per drawing & TE specification)**				
221	Supplying and laying in position RCC pipes with collars conforming to IS:458 for pipe culverts, cable crossings etc. including cutting the pipe if necessary, lowering, laying in position to proper levels, slopes etc. caulking the joints with spun yarn soaked in neat cement slurry and finishing with cement mortar 1:2 (1 cement : 2 sand) curing etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For following Class and Internal PIPE DIA (MM). (Dia (internal) - 500 mm, Pipe Class - NP3)	20	M	3,000.00	60,000.00
222	**U/G AND A/G G.I. PIPELINE SYSTEM - WATER SERVICES tender specification**				
223	Supplying and laying mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ ASTM A105 (Galvanized) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, earthwork in excavation for trenches, valve pits, etc. in all types of soil excluding soft and hard rock including laying of pipes in trenches, joining the pipes and fittings with threaded connections, hydrostatic testing of the piping, backfilling the trenches with selected/approved earth fill material, cutting of roads wherever required, making good the road surface after laying, disposal of surplus earth within a lead of 500 m, etc. including supply of necessary fittings etc. complete as per specifications, drawings and directions of Engineer-in-Charge. For following Nom.Size in mm. (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	500.00	5,000.00
224	Supplying and laying above ground mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ASTM A 105 (GALVANISED) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, including laying of pipes on sleeper, walls, including erecting piping on columns, etc. for pump station, overhead tanks, etc. including joining the pipes and fittings with threaded connections, hydrostatic testing of the piping including supply of necessary fittings etc & pipe supports. complete as per specifications, drawings and instructions of Cement Supplied by contractor (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	500.00	5,000.00
225	**MISC. CIVIL AND STRUCTURAL WORKS FOR U/G PIPING AND OTHER CIVIL WORKS**				
226	Providing and laying brick masonry with locally available bricks of specified class (Brick of class lower than specified shall not be accepted) in cement mortar 1:4 (1 cement : 4 Coarse sand) in one or more brick thickness and in any shape in foundation and plinth for valve pits, drains, circular/square manholes, wing walls, etc. including providing recesses, openings, etc. including curing, finishing the joints flush below ground level and raking out joints in plinth with all labour and material, etc. complete as per drawings, specifications and direction of Engineering-Charge. For following Brick Class.	280	cum	6,000.00	16,80,000.00
227	Providing 13mm thick average cement plaster in cement mortar 1:3 (1 cement: 3 sand) on brick walls/stone masonry/pitching or on concrete surfaces for manholes, valves pits, culverts, wing walls, etc. including cleaning and preparation of the surface, scaffolding, curing etc. for all depths and heights complete as per drawings specifications and direction of Engineer-in-Charge. All materials including cement supplied by the Contractor.	750	M2	300.00	2,25,000.00
228	**UNDERGROUND SEWER SYSTEM - RCC PIPES**				
229	Supplying and laying underground R.C.C. pipes sewers with socket and spigot ends conforming to IS:458 of approved make, to proper grade and alignment, including earthwork in excavation in all types of soil except soft and hard rock for pipe trenches, etc. including dewatering, shoring and shuttering if necessary, dressing of sides, leveling, grading and ramming of bottoms, cutting the R.C.C. pipes to required lengths, lowering the pipes, jointing, including connecting the pipes to manholes and grouting the pipe body with manhole wall using cement mortar 1:2 (1 cement : 2 sand), testing, draining of water and cleaning of pipe after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness , watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, including cutting of roads wherever required and making good the same, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit etc. complete for all depths as per drawings, specifications and instructions of Engineer-in-Charge.(All material shall be supplied by contractor) For following Pipe size (mm) and Class(The following pipe sizes are all internal diameter of the pipes)				
230	(Dia (Internal) - 100 mm, Piping Material Class - NP2)	15	M	500.00	7,500.00
231	(Dia (Internal) - 150 mm, Piping Material Class - NP1)	15	M	700.00	500.00

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232	(Dia (Internal) - 450 mm, Piping Material Class - NP2)	70	M	1,200.00	84,000.00
233	**UNDERGROUND SEWER SYSTEM-HDPE PIPES**				
234	UNDERGROUND SEWER SYSTEM-HDPE PIPES :- Supplying and laying HDPE pipes conforming to IS:4984 of approved make to proper grade and alignment, including earthwork in excavation for trenches etc. in all types of soil except soft and hard rock including dewatering till completion of subsequent works, shoring and strutting, if necessary, dressing the sides, leveling, grading and ramming the bottom, jointing the pipes using hot plates as per manufacturer's recommendation, lowering, providing and laying 1:5:10 (1 cement : 5 sand : 10 aggregate) plain cement concrete of minimum 100mm thickness on bottom and side of pipe as directed, connecting the pipes to manholes and grouting the pipes to manhole/valve chamber walls, including supplying and fixing the specials and fittings, such as bends, reducers, tees, elbows, caps etc. conforming to IS:8008 or fabricated from pipes as per specification, supplying and fixing of flanges, fixing of online valves, including fixing of bolts, nuts and gaskets etc. as per specifications, testing, draining of water and cleaning of pipes after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness, watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit, cutting of road wherever required, making good the same etc. complete for all depths as per drawings, specification and instruction of Engineer-in- Charge. For the following nominal diameter (mm) Pressure Rating(Kg/Cm2). (Dia (Internal) - 80 mm, Pressure Rating - 2.5 Kg/sqcm)	50	M	500.00	25,000.00
235	**PLUMBING AND BUILDING DRAINAGE**				
236	Supplying and fixing approved quality Cast Iron soil/waste pipe conforming to IS:1729 below ground with necessary specials, bends such as Y-junction, T- junction (both single and double) including plugs, shoes, cowls, jointing with lead caulked joints and testing, cutting in floors, earth work in excavation, encasing the pipe in 50mm THK, PCC M20, backfilling and removal of surplus earth upto a lead of 50M etc. complete as per drawings, specifications and directions of Engineer-in-Complete				
237	100mm dia (All materials including cement supplied by contractor)	10	M	1,000.00	10,000.00
238	80mm dia (All materials including cement supplied by contractor)	10	M	800.00	8,000.00
239	**Supplying and fixing gun metal globe valve conforming to IS:778, complete as per specifications and directions of Engineer-in-Charge.**				
240	Dia - 50 mm	2	Nos	2,000.00	4,000.00
241	**Constructing of brick masonry valve chamber in 1:4 Cement mortar(1 cement: 4 sand) with CI frame & cover fixed on M-20 grade cement concrete , necessary excavation, M-20 grade foundation concrete, 13mm thick 1:3 cement plaster on inside & all exposed surfaces, backfilling, removal of surplus earth for all leads within the complex limit etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge. For following Valve size and Brick Class (All materials including Cement supplied by contractor)**				
242	Dia - 50 mm, Brick Class - 5)	2	EACH	15,000.00	30,000.00
243	Providing and fixing approved stone ware 100mmx100mm dia. gully trap as per tender specification, including grating with CI frame and cover 300mmx300mm including brick masonry (brick class shall be as mentioned below) chamber in 1:4 cement mortar(1 cement: 4 sand) on M-20 grade cement concrete foundation, plastered inside and outside surfaces with 1:3 cement mortar (1 cement: 3 sand) with 13mm average thickness including providing and fixing light duty CI frame and cover, painting CI frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat, earth work in excavation, backfilling, removal of surplus earth, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry etc. all complete as per drawings, specifications and directions of Engineer-in-Charge				
244	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	2,500.00	5,000.00
245	Construction as per(Design basis & general technical specification) of brick masonry (brick class shall be as mentioned below) inspection chambers/manholes of 750mmx750mm internal size 1000mm deep(Max.) in cement mortar 1:4 (1 cement: 4 sand) with CI frame and cover 500mm clear dia, (circular Medium duty of grade MD-10) conforming to IS:1726 fixed on RCC slab of M-30				
246	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	15,000.00	30,000.00
247	Construction, supplying, installation, testing and commissioning of septic tank as per standards and IS:2470 Part-I , with all necessary accessories like inlet, outlet vent pipes, manhole covers, rungs etc. including earthwork in excavation in all type of soil except soft and hard rock, backfilling and disposal of surplus earth for all leads etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Vichitra Constructions Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
248	All material including cement supplied by contractor for (Users - 10 NOS)	1	Nos	35,000.00	35,000.00
249	**MISCELLANEOUS ITEMS**				
250	Supplying and fixing in position entrance gate in complex boundary wall fencing manufactured out of steel frame work and square MS bars of 20 mm at 100 c/c and horizontal name plate band at lock rail level suitably hinged with box type steel post embedded in cement concrete i.e. providing the tension bar for smooth operation and locking arrangement etc. complete as per tender specification, including painting with two coats of anti-corrosive paint and two coats of approved aluminium/synthetic enamel paint etc. complete as per drawings, specifications and directions of Engineer-in-Charge.				
251	4.0M clear opening width of gate in two panels.	3	Nos	1,50,000.00	4,50,000.00
252	Supplying & Laying interlocking Paver Blocks for roads, footpaths and any other place etc. including providing 50 mm thick sand filling below Paver Blocks including compaction of sand layer, filling the joints by dry sand, providing precast kerb stone of PCC M-20 at edges, including preparation of compacted sub-grade etc. all complete as per drawing, standard and directions of Engineer-in-Charge. (All material including cement supplied by contractor, paver blocks shall confirm to IS: 15658. cloour and shape of paver block shall be as per owner requirements for following thickness of paver blocks				
253	**(Thickness - 60 mm)**	285	M3	15,000.00	42,75,000.00
254	Supply and installation on terrace, high density polyethylene drinking water circular tank as per IS:12701 and ISI marked including supply and installation of all fittings, cover with suitable locking arrangement, float valve, making necessary holes for inlet, outlet and overflow connection and vent pipe etc. and the base supports for tank including supply of all necessary material all complete as per specifications and directions of Engineer-in-charge. (Sintex or equivalent having valid ISI license) for following capacities.				
255	**capacity - 500 litre**	2	Nos	5,000.00	10,000.00
256	Supplying, installation, testing and commissioning of Upflow Anaerobic Filter with bleaching tank as per TE Std. Drawing with all necessary accessories like, Upstream inlet CI piping from septic tank, Downstream outlet RCC NP2 class piping up to surface storm water drains, CI pipes for filter chamber, CI valve, RCC pre-cast pit covers, steps, perforated pre-cast slabs etc., inlet chamber, Filter chamber, deluding chamber including earthwork in excavation in all type of soil including soft rock, backfilling with murrum or approved soil arranged by the contractor, disposal of surplus earth etc. complete as per drawings, specification and direction of Engineering-Charge (All materials including cement shall be supplied by the contractor, Brick Class lower than 5.0 shall not be used).	1	Nos	25,000.00	25,000.00
257	**DEMOLISHING AND DISMANTLING**				
258	**Brickwork**				
259	**Demolishing BRICKWORK** (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	1,000.00	10,000.00
260	**Demolishing BRICKWORK** (taking all necessary safety precautions) for all heights **above plinth level** including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	2,000.00	20,000.00
261	**RCC**				
262	**Demolishing RCC WORK** (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	2,000.00	20,000.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**			**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL**	**Rev.00** **Date-11.02.2022**
				Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**

M/s. Vichitra Constructions Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
263	**Demolishing RCC WORK** (taking all necessary safety precautions) for all heights **above plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	2,000.00	20,000.00
264	**PCC**				
265	**Demolishing PLAIN CEMENT CONCRETE** work (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc. disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation and backfilling shall be paid separately under relevant items)	10	cum	1,500.00	15,000.00
266	**MISCELLANEOUS ITEMS (REFER TE SPECIFICATION)**				
267	**Sand Filling**				
268	Supplying and filling approved SAND of specified quality under floors, in foundations, plinths, tank foundations etc. for all depths and heights including cost of sand,royalties,transportation to site for all leads and lifts, including loading, unloading, spreading in layers of loose thickness not exceeding 150 mm,watering,ramming,compacting with mechanical compactors and/or other equipment to the specified levels to achieve 85% relative density as per IS:2720 Part XIV,including preparation of subgrade to the required slope, providing testing apparatus and testing the degree of consolidation all complete as per drawings, specifications and direction of Engineer-in-charge. The rates shall be inclusive of the cost of all labour,material,equipments etc. all complete .	100	cum	1,200.00	1,20,000.00
269	**SAND GRAVEL MIX**				
270	Supplying and filling sand gravel mix (1:1) with approved aggregate below road, RCC pavement, manholes, pits, foundations, bedding of UG piping etc. in layers of 150 mm loose thickness (maximum) including watering, ramming, rolling, compacting to achieve 85% relative density as per IS 2720 Part-XIV, quarrying, royalties, transportation, handling, etc. all complete as per drawings, specifications and directions of Engineer-in- Charge. (The rate shall be inclusive of the cost of all labour, material, equipment etc. all complete)	105	cum	2,000.00	2,10,000.00
271	**GROUTING WITH NON-SHRINKABLE COMPOUND**				
272	Providing and laying manually or by pumping at all positions a ready mix non-shrink cementitious grout of compressive strength specified below for specified works e.g. pipe support, base grouting of rotating equipment and other installation complete in all respects as per scope of work, detailed construction drawings , technical specifications and directions of the Engineer-In-Charge.				
273	Having compressive strength of 30 N/mm2 , Per bag of 25 Kg	100	Bags	3,000.00	3,00,000.00
274	Having compressive strength 45 N/mm2 , Per bag of 25 Kg	20	Bags	4,500.00	90,000.00
275	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains, SS trench of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.	7.5	m2	1,200.00	9,000.00
276	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, leve and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	13.5	cum	12,000.00	1,62,000.00
277	Providing and fixing factory made precast RCC **perforated drain covers**, having concrete of strength not less than M-25, of size 1000x450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos. cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of the Engineer-In-Charge.	515	EACH	1,200.00	6,18,000.00
278	**Borewell and recharge well**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Vichitra Constructions Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
279	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job all complete as per drawing, direction of Engineer -in-charge, in all types of soil :	130	M	1,500.00	1,95,000.00
280	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge.	130	M	1,500.00	1,95,000.00
281	Providing and fixing Bail plug/ Bottom plug of required diameter to the bottom of pipe assembly of tubewell as per IS:2800 (Part-I). :150mm dia	3	EACH	500.00	1,500.00
282	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	1,500.00	7,500.00
283	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	1,500.00	7,500.00
284	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	1,500.00	7,500.00
285	Gravel packing in tubewell construction in accordance with IS:4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of the Engineer-In-Charge.	3	cum	1,800.00	5,400.00
286	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS:4270, of reputed & approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size dia having minimum wall thickness 5.00 mm	5	M	2,000.00	10,000.00
287	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	60	M	1,000.00	60,000.00
288	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/ 3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS:8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	25	M	2,100.00	52,500.00
289	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of 150 mm diameter	1	Nos	300.00	300.00
290	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS:2800 (Part-I), including necessary bolts & nuts of required size complete 150 mm diameter.	1	Nos	2,000.00	2,000.00
291	Supply, Installation and commissioning of 1.5HP Borwell Submersible Pump	1	EACH	10,000.00	10,000.00
292	Supply and Installation of 3Cx10Sqmm Copper Flat Cable	200	M	300.00	60,000.00
293	**LANDSCAPING**				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Vichitra Constructions Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
294	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment).	335	cum	500.00	1,67,500.00
295	Fine dressing of the ground.	1105	M2	20.00	22,100.00
296	Providing & laying Selection no. 1 grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden and than rolling the surface with light roller make the surface smoothen and light watering the same maintenance for 30 days or more till the grass establish properly,as per direction of officer in charge	1105	M2	100.00	1,10,500.00
297	Conducting topographical ground/land survey in the specified area as shown in the tender drawings by conventional/GPS or any other standard method, covering details of physical features like Rivers, Nallahs, Lakes, Ponds, wells, pits, Forest, Trees, Roads, culverts, transmission lines, telegraph/ telephone and electric poles, underground or any other services, cross drainage works including cross sectional details of nallah etc. including establishing high flood level with source of information, identification of any monument, historical structure, wild life sanctuary in the vicinity, storm water disposal point with levels, cross-section details of nallah, recording spot levels, top level of nearest state highway or National Highway, including providing in tabulation girth wise no. of trees etc as specified, plotting and developing topographical contour maps, showing true north including establishing survey reference stations, key plan etc. including all equipment's, instruments, personnel's, clearing of bushes as per requirement for intervisibility to carry out survey work etc. , complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of drawings/map and supply of electronic files. Note: Survey work shall be carried out by survey agency approved by Contractor and sample spot witness of levels cordinates by PMC, and shall be submitted to PMC/Owner for review.Survey drawing will be provided in A0 size with clear visibility of all the spots/levels/ contoure and Bench marks. Permanaet bench mark will be stabished at site in a 450x450 mm size 600mm high bick masonry piller.	4220	M2	50.00	2,11,000.00
298	**GEO TECHNICAL INVESTIGATION (Z/02/0022)**				
299	Conducting soil investigation with boring including all field tests and laboratory tests, mobilization and demobilization of equipments & personnel etc. for soil investigation for each borehole location. complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of Reports & recommendations and supply of electronic files.	5	Nos	50,000.00	2,50,000.00
300	**ANTI-TERMITE TREATMENT**				
301	Supplying chemical emulsion in sealed containers including delivery as specified in the Technical Specifications.				
302	Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	200	LITRE	250.00	50,000.00
303	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
304	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc. as per Techinal specifications and direction of engineering in charge: With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	80	METRE	35.00	2,800.00
305	Treatment of soil under floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the floor:				
306	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	250	SQM	300.00	75,000.00
307	Supply and installation 60mm dia GI pipe for column support of gate	15	M	300.00	4,500.00
308	Supply and installation 100mm dia MS pipe	15	M	500.00	7,500.00
309	Supply and installation 50mm dia MS pipe	15	M	250.00	3,750.00
310	Supply and installation of U-PVC pipes (working pressure 4 kg / cm²) Single socketed pipe 75 mm dia for weep holes	200	M	150.00	30,000.00
311	**Sub-Total Section C**				**500.00**

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Vichitra Constructions Pvt. Ltd.

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312	**SECTION-D [CATHODIC PROTECTION WORKS]**				
313	**CATHODIC PROTECTION SYSTEM**				
314	**Cathodic Protection system**				
315	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning & Monitoring of the temporary cathodic protection [TCP] system using galvanic anodes to protect the external surface of the pipeline against soil-side corrosion for minimum 2 year or till commissioning of permanent CP system whichever is later . All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard drawings and vendor list as attached with this tender and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	16,00,000.00	16,00,000.00
316	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning of permanent cathodic protection system for 40 years. The scope of work also includes post commssoning surveys and repair of coating/ rectification of cathodic protection system based on the post commissioning surveys. In additon to the same, AC Interference study on the pipelines to be performed and mitigation measures takes to the satisfaction of Owner/ CONSULTANT. All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard and vendor list attached and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	50,00,000.00	50,00,000.00
317	**Sub-Total Section D**				66,00,000.00
318	**SECTION-E [ELECTRICAL WORKS]**				
319	**ELECTRICAL**				
320	**SWITCH BOARDS / UPS SYSTEM/ PANEL**				
321	Supply , Installation, testing and commissioning of LT Switch-boards, AC UPS system with UPS Distribution board & Ni-Cd Battery banks , distribution boards, cubicles with electrical equipment, misc. electrical panels etc., including transportation from store/yard to site at the place of installation, unpacking, assembly, including mounting and wiring of loose parts supplied by equipment vendor, interconnection of shipping sections and requisite inter-panel wiring between shipping sections, including supply of all wiring materials, installation on foundations or fixing to wall or steel structures, aligning, levelling, grouting, including all labour and materials, as per approved drawings, specifications of this tender and directions of Engineer-in-Charge.				
322	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted MEDB	1	Nos	7,24,500.00	7,24,500.00
323	Supply , erection , termination , earthing and commissioning of wall mounted OLDB as per single line diagram of DT stations	1	Nos	2,12,750.00	2,12,750.00
324	Supply , erection , termination , earthing and commissioning of wall mounted ILDB as per Single line diagram of DT stations	1	Nos	1,55,250.00	1,55,250.00
325	Supply , erection , termination, earthing and commissioning of wall mounted SSDB as per Single line diagram of DT stations	1	Nos	1,87,450.00	1,87,450.00
326	Supply , erection , termination , earthing and commissioning of wall mounted AC DB as per Single line diagram of DT stations	1	Nos	1,89,750.00	1,89,750.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Vichitra Constructions Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
327	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 6 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of DT stations	1	SET	17,25,000.00	17,25,000.00
328	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for DT stations.	1	SET	51,75,000.00	51,75,000.00
329	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 1 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of RT stations	1	SET	11,50,000.00	11,50,000.00
330	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for RT stations.	1	SET	9,31,500.00	9,31,500.00
331	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted Emergency DB	1	Nos	1,15,000.00	1,15,000.00
332	Supply , erection , termination , earthing and commissioning of 32A, 4P, 25kA Auto Change-Over switch as per Single line diagram of DT station-JHARIA	1	Nos	1,15,000.00	1,15,000.00
333	**POWER AND CONTROL CABLE**				
334	Supply , laying , termination , erection and testing of 1.1 KV Power and control FRLS PVC Outersheath, XLPE insulated, armored Cables . Outdoor cable will be laid in buried cable trench and in Indoor cable will be laid in Cable trench by provision of Cable tray and supports inside the trench as per PTS - Electrical package P.017110 G 11077 E002				
335	3.5C x 95 sqmm AL FRLS XLPE	300	M	1,327.10	3,98,130.00
336	3.5C x 70 sqmm AL FRLS XLPE	300	M	1,071.80	3,21,540.00
337	3.5C x 50 sqmm AL FRLS XLPE	50	M	821.10	41,055.00
338	3.5C x 25 sqmm AL FRLS XLPE	100	M	585.35	58,535.00
339	4C x 16 sqmm CU FRLS XLPE	100	M	1,762.95	1,76,295.00
340	3C x 2.5 sqmm CU FRLS XLPE	170	M	455.40	77,418.00
341	3C x 6 sqmm CU FRLS XLPE	250	M	707.25	1,76,812.50
342	4C x 6 sqmm CU FRLS XLPE	350	M	890.10	3,11,535.00
343	2C x 6 sq.mm CU FRLS XLPE	100	M	562.35	56,235.00
344	2.5 sqmm Cu. Wire	1800	M	66.70	1,20,060.00
345	6 sqmm Cu. Wire	600	M	108.10	64,860.00
346	**Earthing & Lightning**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Vichitra Constructions Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
347	Supply , Installation , testing and comissioning of GI Earth electrodes & Cu plate type earth pit complete with earth pit as per IS 3043, PTS-Electrical package and all necessary material including exacavation of earth pit , filling with charcol and salt , back filling, brick work , connections including all labour and materials as approved drawing and specification of this tender and direction of Engineer-In charge.				
348	GI Earth Electrodes				
349	65mm dia x 3000 mm L GI pipe electrode type Earth pit	17	Nos	24,725.00	4,20,325.00
350	**Cu plate Earth Electrode**				
351	600x600x3mm Cu plate type Earth pit	8	Nos	30,475.00	2,43,800.00
352	**Earth strip and wire**				
353	50x 6 mm GI Flat strip	850	M	517.50	4,39,875.00
354	25 x 6 mm Cu Flat strip	50	M	1,667.50	83,375.00
355	2.5 Sqmm Cu wire	250	M	40.25	10,062.50
356	25 x 6 mm GI Flat strip	200	M	287.50	57,500.00
357	10 Sq.mm earthing cable	250	M	103.50	25,875.00
358	GI Earth Bus 50x 6 Sq.mm with all installation assesories	3	Nos	1,552.50	4,657.50
359	Cu. Earth Bus 50x 6 Sq.mm with all installation assesories (in control room)	4	Nos	5,175.00	20,700.00
360	25x3 mm GI Flat for Lightning as well as down conductors for DT station as per overall earthing layout and GGNG-E-20713-3007	80	M	155.25	12,420.00
361	Other lightning assesories like 20mm dia copper rod, hollosphere ,200x200x6mm ms plate ,anchor/fastner ,test links for DT station as per overall earthing layout and GGNG-E-20713-3007	1	LOT	51,750.00	51,750.00
362	**OUTDOOR Lighting**				
363	Supply , erection , Testing & commissioning of Outdoor area lighting system including with supply of flameproof / weather proof light fixture , pole , junction box and earthing including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender & Overall outdoor lighting layout of DT & RT station and directions of Engineer- In charge.				
364	100W FLP LED Fixture & FLP Junction box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	4	Nos	31,050.00	1,24,200.00
365	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	2	Nos	2,07,000.00	4,14,000.00
366	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in RT Stations.	7	Nos	2,12,750.00	14,89,250.00
367	1x160W FLOOD LED Fixture with weather proof junction box & 9 mtr high pole with all assesories for open area	6	Nos	48,748.50	491.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. Vichitra Constructions Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
368	1x70 W Solar type Street LED Fixture with weather proof junction box, VRLA Battery (72 hrs backup time) & 9 mtr high pole for street lighting	4	Nos	1,15,000.00	4,60,000.00
369	1x27 W Post Top Lantran LED Fixture for Gate with weather proof junction box for Gate lamp	2	Nos	7,475.00	14,950.00
370	1x36 W LED industrial fixture suitable to building parapet /wall with all assesories like weather proof junction box/clamp/reducer/	2	Nos	2,070.00	4,140.00
371	**INDOOR Lighting**				
372	Supply, erection, Testing & commissioning of Indoor building area lighting system including with supply of light fixture, point wiring including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender and directions of Engineer- In charge.				
373	2x20 W LED recessed decorative fixture for control room	5	Nos	7,475.00	37,375.00
374	2x20W LED Industrial Fixture for Electrical room	2	Nos	4,140.00	8,280.00
375	1x40W LED Flameproof Fixture for Battery room	1	Nos	17,595.00	17,595.00
376	2x18W LED Industrial Fixture for Varanda/Toilet/ water cooler area/ Guard room	6	Nos	4,140.00	24,840.00
377	1x36W LED Industrial Fixture	4	Nos	2,472.50	9,890.00
378	2x20 W LED recessed decorative fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) control room.	2	Nos	7475	14,950.00
379	2x20W LED Industrial Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Electrical room	2	Nos	18,745.00	37,490.00
380	1x40W LED Flameproof Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Battery room	1	Nos	15,525.00	15,525.00
381	**Switch socket**				
382	Supply and Installation of single/ three phase Switch socket as per Indoor Illumination layout for DT & RT and PTS-Electrical Package and directions of Engineer-In Charge				
383	5/15A surface type switch socket (1 Ph)	7	Nos	517.50	3,622.50
384	5A flush type switch socket (1 Ph)	4	Nos	172.50	690.00
385	16A Switch socket (I Ph)	3	Nos	2,875.00	8,625.00
386	20A Switch socket for AC (1 Ph)	4	Nos	5,175.00	20,700.00
387	Flame proof Junction box for Exhaust fan in Battery room	2	Nos	16,675.00	33,350.00
388	32A Switch socket for welding receptacles (3 Ph)	1	Nos	10,580.00	580.00

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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389	Modular switch board	12	Nos	690.00	8,280.00
390	**FANS and Exhaust FAN**				
391	Supply ,Installation and testing of Ceiling Fan and Exhaust fan with louvers including all labours and materials as per Indoor Illumination layout for DT and PTS-Electrical Package and directions of Engineer-In Charge				
392	Ceiling Fan 230V AC 1200 mm sweep	3	Nos	4,140.00	12,420.00
393	450 mm FLP Exhaust Fan for Battery room	2	Nos	16,675.00	33,350.00
394	200 mm Exhaust Fan for Toilet	1	Nos	8,280.00	8,280.00
395	300 mm Exhaust Fan for Electrical room/ CO2 room	3	Nos	10,580.00	31,740.00
396	**Air conditioning unit**				
397	Supply ,Installation and testing of Five star 1.5 Ton Split AC with outdoor compressor unit including all labours and materials as per Typical Indoor Illumination layout for DT and directions of Engineer-In Charge				
398	Split Air condition Five star 1.5 Ton	4	Nos	1,05,800.00	4,23,200.00
399	**Hardware and other Accessories**				
400	Supply and Installation of Hardware and other accessories including all labours and materials as per Tender specification PTS-Electrical Package P.017110 G 11077 E002 and directions of Engineer-In Charge				
401	Rubber mat	15	M	1,552.50	23,287.50
402	Rubber hand gloves	1	PAIR	517.50	517.50
403	Warning Marker	1	Nos	3,105.00	3,105.00
404	PVC Conduit with bend ,tee and other required assesories	1	LOT	2,87,500.00	2,87,500.00
405	CAUTION Board & Sock treatment chart	1	Nos	287.50	287.50
406	Cable route marker as per Standard drawing TE-IN-STD-G-0327	1	LS	4,140.00	4,140.00
407	Fire extingusher and SAND Bucket with Stand	1	SET	7,475.00	7,475.00
408	Ladder type Cable tray - hot dip Galvanized Prefabricated 450 mm wide	55	MTR.	1,552.50	85,387.50
409	Perforated type Cable tray hot dip Galvanized Prefabricated 450 mm wide	35	MTR.	1,897.50	66,412.50

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410	Cable Glands				
411	Cable Glands : Flame proof IIA/IIB double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
412	Cables with upto OD 20 mm & above OD 20 mm as per Single line diagram of DT & RT station	1	LOT	1,43,750.00	1,43,750.00
413	Cable Glands : Weather proof double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
414	Cables with upto OD 20 mm to 40 mm as per Single line diagram of DT & RT station	1	LOT	1,64,450.00	1,64,450.00
415	**Sub-Total Section E**				**1,82,00,141.50**
416	**SECTION-F [INSTRUMENTATION WORKS]**				
417	**INSTRUMENTATION**				
418	**SUPPLY**				
419	Supply of Pressure Transmitter along with 2 valve manifolds with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	80,873.75	4,04,368.75
420	Supply of Pressure gauge including high range along with 2 valve manifolds with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	18	Nos	37,375.00	6,72,750.00
421	Supply of Pressure gauge including Low Range along with 2 valve manifolds, gauge saver with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	3	Nos	31,050.00	93,150.00
422	Supply of temperature element (RTD) along with flanged thermowell mounted for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	31,050.00	1,55,250.00
423	Supply of Temperature Transmitter with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	7	Nos	64,400.00	4,50,800.00
424	Supply of skin type temperature element (RTD) for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I003), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	2	Nos	21,850.00	43,700.00

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425	Supply of Local control panel with all accessories as per Data sheet (P.017110 G 11087 I011), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, SAT of local control panel,supports/ frame fabrication, earthing and screwing plug for unused entries, painting and integration with RTU. Termination of all Other panel SCADA hard wired signal including RS-485 signals through LCP for RTU/SCADA by Bidder. 1. Digital Barriers 2. Analog Barries 3. Relays 4. three poisition selector switch 5. LED indication lamps 6. Push buttons 7. terminal blocks 8. internal wiring 9. MCBs 10. Door switches 11. cooling Fan 12. LED lights	2	Nos	5,75,000.00	11,50,000.00
426	Supply of Ex-proof junction box with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, iincluding Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.	4	Nos	41,400.00	1,65,600.00
427	Supply of Corrosion Monitoring system with corrosion coupon, Corrosion probe, transmitter and digital indicator (mounted in LCP) as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
428	Corrosion coupon along with accessories.	2	Nos	4,60,000.00	9,20,000.00
429	Corrosion probe along with transmitter, digital indicator, barriers and accessories.	2	Nos	3,45,000.00	6,90,000.00
430	Supply of Conventional Type Microprocessor based fire detection system along with smoke detector, heat detector, cabinet, manual call point, Independent 24 Hrs battery backup with 15 min in alarm state, repeater panel and Electrical Operated Siren, exit signs and cables fromsensor ,MCP, siren, hooter to controller as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
431	Controller along with cabinet along with cabling	1	Nos	4,02,500.00	4,02,500.00
432	Multisensor (smoke & heat)	10	Nos	6,210.00	62,100.00
433	WP IP 65 Manual call points	6	Nos	8,280.00	49,680.00
434	Ex Proof and WP IP 65 Manual call point	1	Nos	10,580.00	10,580.00
435	WP Hooter & Flasher	1	Nos	41,400.00	41,400.00
436	Repeater panel	1	Nos	1,72,500.00	1,72,500.00
437	Exist sign	6	Nos	4,887.50	29,325.00
438	Electrical siren Exd	1	Nos	33,580.00	580.00

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439	24 Hrs battery backup	1	Nos	32,200.00	32,200.00
440	Supply of Conventional type gas detection system along with controller, ex proof point gas detectors, beacon hooter, flasher, , cabinet, portable gas detector, calibration kit, alignment kit as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
441	Controller with cabinet	1	Nos	9,77,500.00	9,77,500.00
442	Point gas detectors	12	Nos	1,84,000.00	22,08,000.00
443	Panel Mounted hooter	2	Nos	7,475.00	14,950.00
444	Dual tone Hooter & Beacon Ex"d" with reset push button	2	Nos	24,725.00	49,450.00
445	Portable gas detecotrs	1	Nos	1,43,750.00	1,43,750.00
446	Calibration kit	1	Nos	1,66,750.00	1,66,750.00
447	Ex d Junction Box	2	Nos	29,900.00	59,800.00
448	Supply of Universal type Hand Held Configurators for transmitters with carrying case, rechargeable batteries (one working and one standby), and battery charger as per Data sheet,PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work	1	Nos	6,78,500.00	6,78,500.00
449	Supply of Instrumentation signal cable, control cable, communication cable/LAN cable, Power cables along with all sizes cable glands (WP & Exd), PVC hood, lug, ferrule, etc including Cable laying (buried as well as tray) along with termination, glanding, meggering and loop checking including supply of ferrule, lugs, cable tie, cable clamp, cable marker etc. as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.				
450	1Px 1.5mm2	500	MTRS.	273.70	1,36,850.00
451	12Px 0.5mm2	900	MTRS.	1,328.25	11,95,425.00
452	1Qx1.5mm2	30	MTRS.	379.50	11,385.00
453	12Tx1.5mm2	200	MTRS.	2,078.05	4,15,610.00
454	1Tx1.5mm2	180	MTRS.	290.95	52,371.00
455	6Px0.5mm2	200	MTRS.	657.80	1,31,560.00
456	2Px1.5mm2	200	MTRS.	517.50	1,03,500.00
457	Cat 5 (LAN)	160	MTRS.	267.95	42,872.00
458	3C x 2.5mm2	240	MTRS.	379.50	91,080.00

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M/s. Vichitra Constructions Pvt. Ltd.

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459	Supply & laying of Instruments cable tray with tray cover (Branch Cable tray (50mm x 50mm), Main cable tray 900 mm, cable tray 300mm, cable tray 150 mm.) as per requirement, instruments/ PGD, CCTV/ mounting poles, instrument protection sun sheds, angles, channels, MS plates & all the erection materials and as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including installation of support, cable clamping, installation of tray cover and support painting.	1	LS	6,21,000.00	6,21,000.00
460	Supply , installation & laying of tubes and fittings as per requirement and as per PTS-Instrumentation with appendices and Scope of Work C&I. SS 316L TEE (1/2", Class 3000#, Screwed, NPTF, Seamless) ,SS316L GLOBE/BALL VALVE (1/2", Class 800#, Screwed, NPTF, Seamless), SS316L PLUG (1/2", Screwed, NPTM, Hex head, class 3000#), SS316L PIPE NIPPLE (½" NPTM, seamless, schedule #160) Length of the pipe nipple as per requirement, SS316L MALE CONNECTOR (1/2" OD x 1/2" NPTM), SS316L FEMALE CONNECTOR (1/2"OD x 1/2" NPTF), SS316L UNION (1/2" OD), SS316L TUBE (1/2" OD x 0.065" WT), SS316L TUBE (1/4" OD x 0.035" WT)	1	LS	7,24,500.00	7,24,500.00
461	Supply of mandatory spares as per Mandatory Spare (P.017110 G 11075 I001)	1	LS	5,17,500.00	5,17,500.00
462	AT Jharia - Installation of metering skids, metering cabinet under the supervision of skid supplier, cable laying and terminal of cable from skid junction box to metering system cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	5,75,000.00	5,75,000.00
463	At Jharia Installation of gas chromatograph skid, analyser & controller cabinet under the supervision of skid supplier, cable laying and terminal of cable from analyser cabinet to controller cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	5,75,000.00	5,75,000.00
464	At Jharia Installation of H2S & Moisture analyser skids, cabinet under the supervision of skid supplier, laying and terminal of cable from skid field mounted cabinet to LCP/RTU. Including supply of all the required erection, fabrication and civil materials.	1	LS	5,75,000.00	5,75,000.00
465	At SV 28 Spare Input output available in existing RTU, internal wiring at site, field connection, configuration and commissioning., interfacing with LCP and configuration of new parameters in existing RTU, as per Scope of Work.	1	LS	1,15,000.00	1,15,000.00
466	**Sub-Total Section F**				**1,57,61,836.75**
467	**SECTION-G [TELECOM WORKS]**				
468	Supply Telecommunication system, SDH equipment STM-4 Based SDH Cabinet of (2000H x 800W x 800W along with 100 mm base frame) as per below configuration: - 2*STM-4 + 2*STM-1 + 8FE ports as per PTS-Telecommunication system (P.017110 G 11077 I002), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including erection, testing, integration with existing NMS at Noida, Commissioning and integration with existing telecom system at SV 28 additional SFP of L4.2 for SV 28 connectivity	1	Nos	1,05,800.00	1,05,800.00
469	Supply of CCTV-IP based Fixed colour camera and PTZ colour camera along with power cable, communication cable at each station as per PTS-Telecommunication system (P.017110 G 11077 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work., including erection, testing, integration with existing VMS at Noida, Commissioning and integration with existing telecom system at SV 28				
470	Fixed Camera WP IP65	1	Nos	1,55,250.00	1,55,250.00
471	PTZ camera WP IP65	1	Nos	7,47,500.00	7,47,500.00
472	Supply of one Analog phones control room, one number in guard room and one number WP IP66 in field safe area as per PTS-Telecommunication system (P.017110 G 11077 I002) , PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work				
472	Analog Phone	2	Nos	2,415.00	330.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. Vichitra Constructions Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
474	Analog Phone Ex Proof WP IP 65	1	Nos	93,150.00	93,150.00
475	FXO cards	1	Nos	74,750.00	74,750.00
476	FXS	1	Nos	74,750.00	74,750.00
477	Five pair armoured telephone cable, size 0.5mm2	100	MTR.	488.75	48,875.00
478	AT Jharia- Free issue RTU by GAIL: Transportation from Gail store to site location, installation, cabling from LCP to RTU, commissioning etc. Erection, installation of RTU inside the station control room including supply of all the required erection materials, fabrication and civil works	1	LS	7,47,500.00	7,47,500.00
479	At SV 28 Spare Input output available in existing RTU, internal wiring at site, field connection, configuration and commissioning., interfacing with LCP , cable laying from LCP to RTU, and configuration of new parameters in existing RTU, as per Scope of Work.	1	LS	1,15,000.00	1,15,000.00
480	**Sub-Total Section G**				**21,67,405.00**
	Total of Section A + B + C + D + E + F + G				**13,81,82,183.25**
479	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Total of Section A + B + C + D + E + F + G above	18	percentage	18	2,48,72,792.99
480	Rate of Extended Stay Compensation per month beyond the time schedule and grace period mentioned in Bidding document for reasons solely attribute to Owner (exclusive of GST) Notes:- 1;- Extended Stay Compensation shall be loaded on the quoted price as per evaluation methodology. 2;- In case, no rate for extended stay compensation is stipulated, it will be considered that extended stay compensation is not required by the Bidder and the rates quoted by them shall be valid till completion of works in all respects.	1	Nos	10,000.00	10,000.00
481	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Extended Stay Compensation at Sl. No. 480 above	18	percentage	18.00	1,800.00
	Grand Total				16,30,66,776.24

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL**	**Rev.00** **Date-11.02.2022**
		Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**

M/s. ZAK Venture Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
				UNIT RATE	TOTAL RATE
1	**SECTION-A (MAIN LINE WORKS)**				
2	**CH.0.00 KM to CH.5.667 KM**				
3	**MAINLINE, PIPING AND MECHANICAL**				
4	PIPELINE LAYING / INSTALLATION Laying/ installation of coated line pipe, associated fittings and accessories, etc. as per specifications, drawings, other provisions of Contract and instructions of Engineer-in-Charge, including but not limited to carrying out the following: "Receiving and taking-over", handling, loading, transportation and unloading of Owner supplied coated and bare line pipes and other Free Issue Materials from Contractor's own stock-yard to Work site including stringing on the pipeline Right-of-Use (ROU), Arrangement of all additional land required for Contractor's storage, Performing the additional survey wherein survey data is not sufficient in the opinion of Contractor, arrangement of working RoU if RoU width is not sufficient for equipment/ vehicle movement etc., access for construction (other than Owner provided ROU; Developing necessary access way to the worksite, including earth filling, levelling, etc.; supply of all materials (except Owner supplied materials), supply of all materials, consumables, equipment, labour, etc.; fabrication, Staking and installation of construction markers, clearing, grubbing, grading (as required) of Right of Use; clearing and grading of ROU; Cutting/ uprooting of shrubs, plants, vegetation within ROU; , Trenching to all depths and to a width to accommodate the pipeline with optical fiber cable (inside HDPE Duct) by excavation in all types of soil (in case of hard rock, additional payment for hard rock breaking will be paid as per separate SOR line item), including additional trenching for seismic and other areas as specified,(Rate for laying of optical fibre cable and HDPE Duct not be included here and same to be quoted against separate SOR item); Carrying out repairs of pipe and coating defects not attributable to Owner; Thorough internal cleaning of all pipes by suitable methods to remove debris, shots, grits etc.; Stringing of line pipes along ROU including providing straw bags, soft padding/sand padding; Aligning, cold field bending, cutting and beveling (as required) of pipes for welding and field adjustments, NDT & NDT of re-beveled area, welding, carrying out destructive & non- destructive testing of welds required as per approved NDT specifications (including radiography) and providing all requisite equipment, labour, supervision, materials, films, consumables etc.; carrying out repairs of weld joints as required, carrying out re- radiography and other non-destructive tests on repaired joints, etc.; Installation of carrier pipe including concrete coated pipes (wherever required).				
5	(Concrete Coating on pipes, covered separately) at all crossings including roads/ canals/ nala/ water crossings etc. (supply and installation of casing pipe by open cut or by Jacking/ boaring method covered separately) including pre-testing as required; Carrying out installation of carrier pipe in the casing pipe at cased crossings; Coating of all field weld joints, long radius bends (fabrication of Cold field bends covered here and fabrication of 6D bends by induction heating covered separately), buried fittings etc.; Supply & Installation of warning tape along the entire length of Pipeline including Crossing. Lowering the pipelines in trench, providing required padding over and around the pipeline with sand/graded material (in rocky areas), backfilling with available approved excavated material and/or other suitable soil (supply and providing of soft soil for pre & post padding in Rocky area); Supply and installation of slope breaker as per specifications and drawings in steep slope areas, wherever required; Carrying out hydrostatic testing including air cleaning, flushing, filling, gauging, pressurization of complete pipeline in various test sections as approved by Engineer-In-Charge to the specified test pressure, providing all equipment, pumps, fittings, instruments, dead weight tester, all types of pigs etc., and services, supervision, labour, consumables, arranging water required for hydrostatic testing including supply of corrosion inhibitor, air, etc. as required, locating of leaks and rectification of defects attributable to Contractor, re-testing after rectification, successful completion of hydro-testing of pipeline (De-watering covered else where in the SOR); including all tie-in(s) with the pipeline/ piping installed by others including cutting of test header, re- beveling as required; Carrying out all temporary, ancillary, auxiliary works and all incidental works required to make the pipeline ready for pre- commissioning; Carrying out EGP for the entire stretch of completed pipeline, Repair of defects recorded during EGP/gauge plate run or otherwise including cutting, beveling, welding, NDT, field joint coating etc.; as applicable, Final clean-up and restoration of right of use including obtaining NOC from respective statutory authorities as required and disposal of debris and returning all surplus material to designated disposal areas/storage yard, as directed by Engineer-In-Charge; Restoration of land, facilities and boundary wall etc. at associated facilities dismantled/damaged by the Contractor during construction; Obtaining work permits/ NOC from various statutory authorities having jurisdiction and complying with all stipulation/conditions/recommendation of the said authorities; Preparation of as-built drawings, pipe-book and other records. SOR shall be read in conjunction with Project drawings, scope of work, specifications, standards and other provisions of contract document. The work includes the Survey data & site preparation, Stringing/Chainges in direction, Beveling of pipe element, Welding Procedure Qualification & Welders Qualification, Welding of pipe element, Inspection & testing of production welds, Field joint coating, controlled blasting, chiseling, etc., Material hand over & material handling, Lowering-in & ballasting, All crossings except HDD as mentioned in Crossing List (including installation of carrier pipe inside the Casing at cased crossing) Backfilling (for all depths in all types of soil, soft /hard rock) including trench padding with sand, graded earth in rocky areas & rock shield(if required as per specs) reinstatement				
6	All above works shall be executed in accordance with scope of work, GTS, PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. 1. Supply and Installation of OFC and HDPE Ducts along the entire pipeline route, adjacent to the new pipeline, along with all required accessories, fittings and associated items, is covered separately in the SOR. All above works for buried pipeline (including hook-up pipeline from Tap Off Point inside ONGC GCS, Jharia upto proposed plot for GAIL DT), as per following details :				
7	ND 8", API5L X60 - 6.4 mm	4250	M	2,496.00	1,06,08,000.00
8	ND 8", API5L X60 - 7.1 mm	1588	M	2,535.00	40,25,580.00

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M/s. ZAK Venture Pvt. Ltd.

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9	Concrete slabs (Mechanical Protection) as per technical specifications Supply, fabrication and installation of reinforced concrete weights. Reinforced steel size should be 8 mm. top and bottom at a rate of 200 mm c/c of precasted RCC 1:2:4 on pipeline of wall thickness of 75 mm thick and size as per specifications & Standard drawings and instructions of Owner/ Owner's representative including supply of consumables, materials, equipment, labor, supervision, all associated civil works.	110	M	850.00	93,500.00
10	Continuous Concrete Coating Supply of all consumables and materials, equipments, manpower, submission of application procedure with calculations for anti-buoyancy, design mix procedure qualification and application of continuous concrete weight coating thickness mentioned below (higher also, in case design requirements) on pipeline of all thickness, concrete weight coating of the field joints thereof, and performing all works as per specifications and instructions of Owner/Owner's representative and other provisions of CONTRACT DOCUMENT.				
11	25 mm thick	12	M	1,250.00	15,000.00
12	30 mm thick	12	M	1,435.00	17,220.00
13	GEO TEXTILE BAGS FOR ANTI-BUOYANCY				
14	Additional works over and above item no. 4 to 8 for design, manufacture and supply of Non-biodegradable geo-textile bags and installation of geo-textile bags duly filled with gravel/ stone ballast on pipelines of all wall thicknesses for anti-buoyancy, drawings, scope of work and instructions of Engineer-in-Charge and other provisions of the Contract document.				
15	ND 8" (for all thicknesses)	12	M	1,912.00	22,944.00
16	Permanent Markers Supply, fabrication and installation of following types of permanent markers along the pipeline route including all associated civil works such as excavation in all types of soil, construction of pedestals and grouting with concrete, clearing, supply & application of approved color and quality of primer and paint, stencil letter cutting for numbers, direction, chainage, etc. restoration of area to original condition and performing all works as per drawings, specifications and instruction of Owner/Owner's Representative.				
17	Pipeline Warning Signs	14	Nos	7,850.00	1,09,900.00
18	Right-of-way boundary markers	22	Nos	1,459.00	32,098.00
19	Kilometer Markers	4	Nos	8,500.00	34,000.00
20	Aerial Markers	1	Nos	9,000.00	9,000.00
21	Directional Markers	69	Nos	7,280.00	5,02,320.00
22	Repair of Defects in Pipe Coating (Attributable to OWNER)				
23	Repair of Line Pipe Coating: Supply of all coating repair materials as per the requirements of the relevant specifications, supply of all consumables, utilities, equipment, and all manpower required, pipe cleaning and surface preparation, repairing of coating defects (resulting in holiday in coating) and testing including all handling, transportation, etc. for line pipes, performing all works necessary for the completion of the works strictly in accordance with the relevant specifications and instructions of OWNER.				
24	Repair of Holidays in Coating	20	Nos	280.00	5,600.00
25	Repair of Cosmetic Defects in Coating: Description of same as in item no 23 above, but for repair of cosmetic defects in coating.	30	m3	475.00	14,250.00
26	**Repair of Defects in Line Pipes**				
27	Repair of OWNER supplied pipes of all wall thicknesses, recorded at the time of taking-over by CONTRACTOR at all places of work.				
28	Cutting and rebevelling	15	Nos	550.00	8,250.00
29	Jack out method	15	Nos	25.00	375.00

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
30	All works for locating burst (occurred during hydrostatic testing and tightness test attributable to Owner issued materials) including detecting burst, necessary repairing/replacing defective pipe lengths, including cutting out and removing the defective pipe, pretesting the replacement pipe, welding of replacement pipe into mainline and NDT of welding, repair and re-testing of defective welds, coating of welded joints, cleanup, retesting including providing all labor, materials, consumables and inputs other than OWNER supplied materials and performing all works as per drawings, specifications and directions of Owner/ Owner's representative. In case of pinhole leaks not easily detectable all works for locating leak (occurred during mechanical resistance test and tightness test attributable to Owner issued materials) including detecting leak, The Payment will be made as per actual efforts and based on Equipment and manpower Rate provided in SCC . Further replacement & retesting will be paid as above.	2	Per burst	1,50,000.00	3,00,000.00
31	LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER) (FOR TERMINAL PIPING) LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER DUE TO FIM) All works for leak/burst (occurring during hydrostatic testing) by necessary repair/replacement of defective pipe length, including cutting and removing out defective pipes, welding, NDT of welds, repair and re-testing of defective welds, painting of welded joints, clean-up, re hydro testing of the pipe segment including providing all necessary equipment, labour, materials, consumables and inputs other than Owner supplied materials and performing all works as per drawings, scope of work, specifications, standards enclosed with the Contract and directions of Engineer-in-Charge. Note: 1. This rate shall be applicable for manufacturing defects in Company supplied materials only.	6	Inch-meter	1,950.00	11,700.00
32	IDLE TIME PRESERVATION OF PIPELINE Preservation of complete pipeline and associated facilities and its maintenance including supply of all consumables, all equipment, man- power, etc., complete as per the requirements of specifications, scope of work, standards, other provisions of Contract document and instructions of Engineer-in- Charge. By filling and pressurizing with nitrogen including supply and maintenance of nitrogen as per following details:				
33	Pipe OD - 8 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - 3 MONTH	6030	M	198.00	11,93,940.00
34	Pipe OD - 8 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - FOR EVERY ADDITIONAL MONTH BEYOND INITIAL 3 MONTHS	6030	M	90.00	5,42,700.00
35	**PRE-COMMISSIONING FOR NATURAL GAS PIPELINES SYSTEM, Carrying out pre-commissioning activities and pre-commissioning checks to the specified acceptance criteria, making the entire pipeline system ready for commissioning (It includes cleaning including magnetic cleaning, Electrical Geometrical Pigging survey, dewatering, swabbing,, pre-drying activity, Golden-tie ins connecting the stations),, supply of all equipment, man-power, consumables, including all type of pigs and required quantity of nitrogen, materials for all temporary works and performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.**				
36	Pipe OD - 8 INCH	6030	M	160.00	9,64,800.00
37	**Commissioning Assistance**				
38	OVERALL COMMISSIONING OF ENTIRE PIPELINE SYSTEM Overall commissioning including system checks, inertisation (as required) and charging of entire pipeline system, including all stations and all associated facilities including notifying the Company that the pipeline system is ready for commissioning; Review of status jointly with the Company and obtaining final clearance for start of commissioning; Development and submission of commissioning procedures, obtaining Company approval thereupon, carrying out overall commissioning of the total pipeline system including all facilities and all necessary coordination/ liaison with other Contractor(s) operations; Carrying out commissioning; Supply of all equipment like Nitrogen vapourisers (as required), along with all piping and instruments, temporary venting/ flaring/draining facilities as applicable, man-power, consumables including pigs and required quantity of Nitrogen (as required); Performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.				
39	Pipe OD - 8 INCH	6030	M	170.00	10,25,100.00
40	PIPELINE INFORMATION MANAGEMENT SYSTEM Providing pipeline information management system using web based software for monitoring pipeline construction progress and providing all "As Built" data & drawings for entire length of pipeline as per specifications enclosed with the tender document.	1	LS	55,000.00	55,000.00
41	VIDEO FILM & PHOTOGRAPHY OF CONSTRUCTION ACTIVITIES Preparation of high resolution video films with audio commentary and Industrial photography covering all aspects/activities of pipeline construction annotated as required, conversion of same to video DVD/Blue Ray format, submitting three (3) sets of the same as per details in scope of work document	1	LS	65,000.00	65,000.00
42	**FABRICATION OF LR BENDS :**				

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43	Fabrication of 6D bend / LR (Induction) bends as per the relevant standard & Specification attached with the tender document from free issue linepipes (mother pipe) including but not limited to the following: "Receiving and taking over of free issue linepipes" from GAIL Dump Yard location as mentioned in Scope of Work, carrying out inspection of line pipe at the time of receive taking over in the presence of Company representative, carrying out repair of pipe defects attributable to Contractor after taking over, including supply of consumables & equipments; handling, hauling, transportation and loading/unloading required to transport the mother pipes between place of issue, LR bend fabricator/ manufacturer, intermediate storage as required, and final delivery of fabricated LR Bends to the worksite(s), as per requirement, Manufacturing/ fabricating of LR Bends, as per project requirements and Specifications. LR bends exact angle(s) shall be as per pipeline alignment. Note:- 1. Rate for repairing of defects in linepipes identified and recorded at the time of receiving & taking over i.e. defects attributable to Company shall be quoted separately in the applicable items of the SOR. 2.Loading of Pipe into installation contractor trailer shall be carried out by the GAIL Dumpyard maintenance agency already engaged by the Company.				
44	Bare Pipe ND 8", API5L X60 - 6.4mm	8	Nos	1,04,000.00	8,32,000.00
45	Bare Pipe ND 8", API5L X60 -7.1 mm	15	Nos	1,15,000.00	17,25,000.00
46	**SUPPLY AND INSTALLATION OF CASING PIPE & 6 INCH CS CONDUIT:** Supply and installation of casing pipe and 6 inch CS conduit for OFC by jacking / boring or open cut for rail, road or canal crossings wherever required in all types of soils and terrain separately for carrier pipes and fibre optic cable inside HDPE duct, supply of casing pipes and all other Contractor supplied materials viz. casing insulators and casing end seals as per enclosed drawing, materials for casing vents and drains, etc. including transportation, supply of all other materials, equipments, consumables, man-power, welding including visual inspection of all weld joints, installation of casing insulators, end seals, vents and drain-off pipes, backfilling and restoration as original of the facility crossed and performing all works as per drawings, specifications including PTS and GTS and instructions of Engineer-in Charge and provisions of Contract document.				
47	Supply and installation of Casing pipe by Boring / Jacking as per item no. 46 (Railway crossing) Casing Pipe Details: (Pipe 14" , 8.7 mm Thick, API 5L GR.B)	200	M	20,000.00	40,00,000.00
48	Supply and installation of Casing pipe by Boring / Jacking as per item no. 46 (Other than Railway Crossings) Casing Pipe Details: (Pipe 14" , 6.4 mm Thick, API 5L GR.B)	12	M	12,500.00	1,50,000.00
49	Supply and installation of 6 inch CS Conduit by Boring/Jacking as per item no. 46 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	200	M	11,200.00	22,40,000.00
50	Supply and installation of Casing pipe by open cut as per item no. 46 Casing Pipe Details: (Pipe 14" , 6.4 mm Thick, API 5L GR.B)	12	M	9,500.00	1,14,000.00
51	Supply and installation of 6 inch CS Conduit by open cut as per item no. 46 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	12	M	10,700.00	1,28,400.00
52	**HDD CROSSING**				
53	**Generalities**				

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. ZAK Venture Pvt. Ltd.

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54	Topographic / Bathymetry, Geotech Investigation and Hydrological data collection				
55	Site preparation				
56	Design & stress calculations as per requirement				
57	Material hand-over and material handling				
58	Site reinstatement				
59	Final dossier including all notes & calculations as required in the specification				
60	***Installation of 6 inch CS Conduit***				
61	Teletransmission--Separate Drilling for 6 inch CS Conduit for OFC installation				
62	Installation of HDPE duct & OFC cable inside 6 inch CS conduit				
63	Drilling & Pulling of 6 inch CS Conduit shall be done before mainline HDD.				
64	***Pipeline string***				
65	Beveling & welding				
66	Inspection & testing of welds				
67	Field joint coating				
68	Temporary support (roller)				
69	Control of pipeline string				
70	Hydrotesting & leak test				
71	***Drilling operation***				
72	Earthwork entry / exit points including grading erection of embankment etc..				
73	Supply & clearing out of all material needed for drilling				
74	Drilling of washer pipe, reaming & cleaning of drill opening, supply and preparation of bentonite				

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75	Pull back of the pipe string				
76	Disposal of surplus of soil & bentonite				
77	Control of the integrity of the coating				
78	***Work at entry point***				
79	Changes in direction				
80	Beveling & welding				
81	Inspection & testing of welds				
82	Field joint coating & coating of all bare section of pipe				
83	Earthwork				
84	Lowering-in				
85	backfilling as required				
86	***Work at exit point***				
87	Changes in direction				
88	Beveling & welding				
89	Inspection & testing of welds				
90	Field joint coating & coating of all bare section of pipe				
91	Earthwork				
92	Lowering-in				
93	backfilling as required				

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94	Complete work for the water/ Road/ Rail crossings, including taking over and handling of linepipes from Contractor Storage Yard to worksite, Arrangement of all additional land required for Contractor's storage, fabrication, access for construction; construction design calculation and engineering of the crossing, mobilization and demobilization at site(s), supply of all materials as per "Scope of Supply" and all consumables, equipment, manpower and other resources, and acquiring the required land for site preparations, and execution of, but not limited to, the following works in accordance with specifications, drawings, and as per provisions of the Contract document and instructions of the Company/ Engineer-in- Charge: Carry out all surveys required for collecting data relevant to design and construction of the crossing, preparation of all necessary construction drawings for Company's approval as per the provisions of the Contractor document, Preparation of detailed construction method statement and calculations including Scour Depth calculations for river/ canal crossings, Strings preparation including welding, 100% Radiography of welds, NDT of welds and re-beveled areas, radiography, weld repair and re-test, pre-testing of completed string, corrosion coating of field joints with Dirax or equivalent, inspection of corrosion coating and repair of defects, Preconstruction surveys and collection of all necessary data, Installation of pipeline and CS conduit (6 Inch CS Conduit shall be installed through Seperate Drilling) , horizontal directional drilling to the correct profile as per approved drawings and specification, Post-installation hydrotest including leaks and repair of defects and retesting, etc. for defects attributed to Contractor's faulty work, Supply, fabrication and construction of protective fencing as required, Hydrotesting, Supply, fabrication and erection of pipeline markers, Restoration and clean-up etc., Preparation of as-built drawings and other records etc., All other works not specifically listed herein, but required as per specifications, drawings, provision of contract document, calculations, and construction method statements, leading to successful completion of works.				
95	Linepipe details:- (Pipe 8" dia, Wall Thickness: 7.1 mm, Pipe Grade: API 5L GR.X-60 PSL 2, External Coating: 3LPE) CS Conduit details: (Pipe 6" dia, 6.4mm Thick, API 5L GR.B) Note: 1. CS Conduit shall be supplied by the Contractor. Radiography & Hydrostatic testing is not required to be done for CS Conduit. (6 Inch CS Conduit shall be installed through Seperate Drilling) Contractor shall quote accordingly. 2. The rate shall be applicable for the drilled length of the HDDs. All above works shall be executed in accordance with scope of work, GTS,PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. This line item is applicable for HDD crossing mentioned in the Crossing List with prior approval of Engineer - In-Charge during Construction.	192	M	18,500	35,52,000.00
96	**SUPPLY & INSTALLATION OF OPTICAL FIBBE CABLE AND HDPE DUCT**				
97	Suppy of 24 Fibre Composite armoured Optical Fibre Cable drum (6 fibre G-655 & 18 fibre G-652) of 4 km +/-5% Cable drum length with fiber terminal closure, inspection chamber, electronic route marker all along pipeline route, Two number electronic locater as per PTS-Optical Fibre cable and Scope of Work C&I along with all required accessories and fitments not mentioned seperately.	7000	M	135	9,45,000.00
98	Inspection/Jointing Chamber (fabricated or readymade)	3	Nos	7,800	23,400.00
99	Blowing Pit (fabricated or readymade)	7	Nos	4,500	31,500.00
100	Supply of jointing closure 24 Fiber, 2 way including all accessories (3M, Siemens, Reychem make only)	3	Nos	15,000	45,000.00
101	Supply of End to End OFC termination of wall mounted FTC with pig tails other accessories for termination of OFC - 24 Fibre in the Telecom Room at Jharia & SV28	2	Nos	28,500	57,000.00
102	Electronic marker	3	Nos	7,500	22,500.00
103	Electronic Locator	1	Nos	10,500	10,500.00
104	Supply of 50mm OD permanently lubricated HDPE telecom duct along with all the required accessories as per PTS-Optical Fibre cable and Scope of Work C&I	7000	M	130.00	9,10,000.00

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105	Laying of HDPE Duct : Laying of 50mm HDPE Ducts in same pipeline trench direct buried, or inside 6 inch CS conduit at various crossings as per Specification in all type of soil & terrain, excavated as required, padding, backfilling, etc. including supply of accessories required for HDPE Duct installation, including plastic couplers, end plugs, cable sealing plugs, end caps, etc. suitable & sufficient for above supplied ducts, cleaning and sealing of ducts at the end laid drum lengths, preparation and supply of cable blowing pit at each Km jointing of HDPE duct, testing of HDPE Duct and accessories after laying preparation of report and final drawing and documents as per specification, joint location marking, erection accessories, as-built, etc.	7000	M	75.00	5,25,000.00
106	Blowing of Optical Fibre Cable inside HDPE Duct : All activities pertaining to Blowing of Optical Fibre Cable in same pipeline trench directly (after testing drum at site), inside HDPE duct along the pipeline and at crossing, sealing using all materials required as per specification	7000	Nos	65.00	4,55,000.00
107	Installation of FTC & Wire mesh, termination of OFC on FTC / DDF inside telecom room, splicing with steet fibre, fibre test, OTDR test, power testing of laid OFC, identification of fault, rectification, earthing, final testing and commissioning, preparation of reports, etc. work complete in all respect with all necessary accessories for all location till final Handing Over and Taking Over by Owner of laid OFC.	1	LS	30,500.00	30,500.00
108	**TRANSPORTATION OF COATED AND BARE LINEPIPES FROM GAIL DUMPYARDS (ANY LOCATIONIN INDIA) TO CONTRACTOR STORAGE YARD:**				
109	"Receiving and taking over" of "free issue" Linepipes from GAIL Dump Yard location (any location in India); Carrying out inspection of Linepipes at the time of receiving and taking-over, recording of pipe & coating defects at the time of taking over in the presence of Company's representative, carrying out repair of coating defects & pipe defects attributable to Company; including supply of materials, consumables & equipments; handling, hauling and transportation from designated place of issue to Contractor Storage Yard; unloading and stacking of the linepipes at Contractor Storage Yard; including arranging all equipments, trailers, trucks & manpower; all works as per Scope of Work, drawings, PTS, GTS and other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, Provision of Contract & instructions of Engineer InCharge.				
110	Linepipe Details:- Coated and Bare Line Pipe 8" diameter API 5L Gr. X-60 PSL-2 Wall Thickness - 6,4mm / 7.1mm External Coating - 3LPE, Internal Coating - Liquid Epoxy 1) Loading of Pipes into Installation contractor's trailer shall be carried out by the contractor. 2) Development & Maintenance of Contractor Storage Yard adequate to store the linepipes including arrangement of all Lifting & Handling equipment at Contractor's Storage Yard shall be done by the Contractor. Rate for the same shall be quoted in applicable items. 3) Rate for repairing of coating defects in linepipes identified and recorded at the time of receiving & taking over i.e. coating-defects attributable to Company shall be included in this item. 4) Rate for repairing of pipe-defects identified and recorded at the time of receiving & taking over i.e. pipe-defects attributable to Company shall be quoted separately in the applicable items of the SOR. 5) Transportation of line pipe from Contractor's Storage Yard to work site is included in SOR item 1 above, No separate payment will be applicable for the same.	350000	Ton-Km	8.00	28,00,000.00
111	TRANSPORTATION OF FREE ISSUE PIPING ITEMS (OTHER THAN LINE PIPE) FROM GAIL STORAGE YARDS (ANY LOCATION IN INDIA) TO CONTRACTORS YARD / WORKSITE(S) : "Receiving and taking-over", handling, lifting, loading, transportation and unloading of Company supplied "free-issue materials" (Other than line pipe) viz. Metering Filtering and PRS Skid, Scrapper Launcher/ Receiver & accessories, Valves with or without Actuators, Insulation Joints, Flow Tee, Pig Signallers, fittings, flanges etc. from GAIL Storage yards location (any location in India) to Contractor's Storage Yard / work-site(s). Note:- 1) Location of GAIL Storage Yard shall be anywhere in India. Contractor shall quote accordingly. 2) Transportation of FIM from Contractor's Storage Yard to work site, is included in SOR item 119 below, No separate payment will be applicable for the same.	24000	Ton-Km	20.00	4,80,000.00
112	**DEVELOPMENT OF CONTRACTOR STORAGE YARD:**				

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113	Development of the Contractor Storage Yard including fencing, illumination etc., including deployment of all lifting and handling equipments, manpower required to stack, unload and load all Free Issue Material (FIM) including Line Pipes and all bought out items, as required; storage of all Free Issue Material and bought out items for the required duration as per project requirement, all works as per Scope of Work, drawings, other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, PTS, GTS and Provision of Contract & instructions of Engineer In-Charge. The storage yard shall be used for storage of all Free Issue Line pipes, all other Free Issure Material (FIM) and all bought out items required for the project. Notes:- 1) Development of contractor storage yard adequate to store all the material required for Project, including all Free Issue Material (FIM) and bought out items. (Rate for the same shall be captured in this item)	1	LS	3,50,000.00	3,50,000.00
114	Hard Rock breaking by controlled blasting / chiseling method (rate will be applicable in case when prior approval for rock breaking is obtained by the contractor from GAIL / PMC)	50	M3	1,925.00	96,250.00
115	Clean Agent Fire Supression System as per Scope of Work	1	LS	65,000.00	65,000.00
116	Restoration of underground utilities (pipes & cables) during excavation at ONGC, GCS Jharia and Receiving Station (which is inside SV-28 Premises)	5	Nos	25,000.00	1,25,000.00
117	**Sub-Total Section A**				**3,93,69,327.00**
118	**SECTION-B [MECHANICAL (PIPING & TERMINAL WORKS)]**				
119	**PIPING WORKS AT DESPATCH AND RECEIVING STATIONS AND HOOK-UP WITH ONGC GCS, JHARIA** All works for installation of all piping at all elevations for Despatch and Receiving Stations as indicated in Drawings, Scope document, including supply of all consumables, Gaskets, nuts, bolts Studs, manpower, materials and equipment (except Company supplied free-issue materials), aligning, grouting, tie-in with pipeline and carrying out all mechanical works of underground and above ground piping including fabrication, welding, installation of all pipes, valves (manual & actuated), flanges, fittings, flow tees, pig signalers, insulating joints, corrosion monitoring probes /corrosion coupons, installation of instruments (pressure/temperature gauges, vents, drains-off, safety relief valves, electro hydraulic valves etc.) as indicated in P& IDs and GADs. 100% Radiography of weld joints of piping above 1.5 inch, Magnetic particle & Die penetration test for piping 1.5 inch & below, all NDT of welds, weld repairs/retesting, hydrostatic testing, cleaning/flushing, functional testing, de-pressurizing , Drying and dewatering, cutting and re-beveling (as required), hookup of all pipeline/utilities at the battery limit with the pipeline/utilities installed by others, obtaining all statutory clearances, approvals and permissions for the work (wherever required), excavation and filling in all types of soils including soft/hard rock for installation of piping/ pipe supports; corrosion coating and external painting (as required), finishing, clean-up and restoration of site, preparation of as- built drawings, documents and project records and performing all works as per drawings, specifications, other provisions of Contract document and instructions of Engineer-in-Charge. Civil/ structural works for piping supports will be paid separately as per unit rate provided				
120	Fabrication and Erection of piping as per item no.110, (For Pipe Size 2 Inch and above, 100% Radiography) Note: 1. Rate for Handling, Fabrication and erection of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item. Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor.Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes 2" & above, shall also be part of this item. Contractor shall quote accordingly.	1500	INCH DIA METER	1,875.00	28,12,500.00
121	Fabrication & Erection of Piping as per item no. 110 (For Pipe Size Below 2 inch, Magnetic particle & Dye Penetration Test as per the requirement of specification) Note: 1. Rate for Handling and installation of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item.Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor. Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes below 2", shall also be part of this item. Contractor shall quote accordingly.	50	INCH DIA METER	1,995.00	99,750.00
122	Painting of Piping (Pipe, Fittings, Flanges, Valves, Equipments, etc.) as per item no. 110	1550	ICH METER	450.00	6,97,500.00
123	Hydrostatic testing, cleaning / flushing, functional testing, de-pressurizing, dewatering & drying of Piping as per item no. 110 (for all size upto 10").	1550	ICH METER	180.00	2,79,000.00
124	**INSTALLATION OF COMPANY SUPPLIED FIM (FML SKID AND PIG LAUNCHER/RECEIVER SYSTEM) AT DESPATCH TERMINAL AND RECEIVING TERMINAL**				

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125	Installation of Company supplied Filtering, Metering and PRS Skid and Scrapper Launcher/ Receiver with accessories, at stations including all handling and installation works; as per drawings, specifications enclosed with the Contract and directions of Engineer-in-Charge. Cost of Transportation of above Free issue items, from Contractor's own stock-yard to Work site for station works, to be included in this SOR item. No separate payment will be applicable for the same.	1	LS	1,50,000.00	1,50,000.00
126	**CONTRACTOR SUPPLIED ITEMS:(Supply of Items as per attached PTS,GTS,Data Sheet,QAP and PMS)**				
127	**Station pipe -Seamless**				
128	1" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, PE, SEAMLESS	6	METER	1,550.00	9,300.00
129	2" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	90	METER	2,896.00	2,60,640.00
130	4" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	135	METER	3,250.00	4,38,750.00
131	8" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	50	METER	5,275.00	2,63,750.00
132	8" pipe, 6.4mm thk, ANSI B 36.10, API5L X 60, BE, HFERW/SEAMLESS	29	METER	5,800.00	1,68,200.00
133	10" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	12	METER	7,200.00	86,400.00
134	**Supply of Fitting & Flanges**				
135	1 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 350 LF2,CL1, BW, ANSI B16.25	4	Nos	1,750.00	7,000.00
136	2 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25.	3	Nos	2,260.00	6,780.00
137	1" WNRF FLANGES, 6C1, SCH. 160 / 600#, WNRF, B-16.5, ASTM A350 LF2, CL1, BW-ANSI B16.25 RF	4	Nos	1,860.00	7,440.00
138	8", WNRF FLANGES, 6C2, 6.4 thk/ 600#, WNRF, B-16.5, ASTM A694 F60 OR EQUIVALENT, CL1, BW-ANSI B16.25 RF.	5	Nos	7,850.00	39,250.00
139	1", BLIND FLANGES, 6C1, 600#, RF, B-16.5, ASTM A350 LF2, CL1, RF	4	Nos	1,650.00	6,600.00
140	3/4" EQUAL TEES, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25,	1	Nos	1,550.00	1,550.00
141	3/4", CUP THREADED 6C1, 6000#, ANSI B16-11, ASTM A 350 LF2, CL1 , BW - ANSI B16.25, ANSI B1.20.1,	3	Nos	1,550.00	4,650.00
142	**WELDOLETS (MAINLINE x BRANCH SIZE)**				
143	4" x 1", WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1 ,	2	Nos	950.00	1,900.00
144	8" x 2" WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 6.4 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 694 F60	13	Nos	1,450.00	18,850.00
145	8" x 2", WELDOLETS (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	26	Nos	1,785.00	46,410.00
146	**GASKETS**				
147	GASKETS, 6C1, 600#, RF, ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK. 1"	12	Nos	120.00	1440.00

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148	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 2"	210	Nos	175.00	36,750.00
149	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 4"	30	Nos	220.00	6,600.00
150	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 8"	47	Nos	280.00	13,160.00
151	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 10"	2	Nos	280.00	560.00
152	**NIPPLES**				
153	NIPPLES, 6C1, Sch 160 /600#, ANSI B 36.10, ASTM A333 GR.6, BOTH ENDS PLAIN, SEAMLESS-LG=100mm, 3/4"	12	Nos	1,050.00	12,600.00
154	NIPPLES, 6C1, Sch 160 / 600#, ANSI B 36.11, ASTM A333 GR.7, ONE END THRD -MNPT SEAMLESS- LG=100mm, 3/4"	8	Nos	1,050.00	8,400.00
155	**INSULATING JOINT**				
156	INSULATING JOINT 6C,16.4 mm (X60) x 600# ,MANUFACTURER STANDARDS ,ASTM A694 F60 ,BW - ANSI B16-25, 8"	2	Nos	1,20,000.00	2,40,000.00
157	**Supply of following Valves as Per attached PTS,GTS,Data Sheet,QAP,PMS & MTO**				
158	1",BALL VALVE - FULL BORE (RF) (ABOVE GROUND),6C1	6	Nos	2,880.00	17,280.00
159	3/4", CHECK VALVE (RF) (AG), 6C1	2	Nos	3,125.00	6,250.00
160	3/4",NEEDLE VALVE, 6C1	5	Nos	2,975.00	14,875.00
161	**Note (Applicable for all items of SOR Item No 126 to 160):** **1. Before procurement of any of the above materials Contractor will take prior approval from GAIL / PMC.** **2. Payment will be made for actual quantity used.**				
162	**Sub-Total Section B**				**57,64,135.00**
163	**SECTION-C [CIVIL / STRUCTURAL & ARCHITECTURAL]**				
164	**CIVIL , STRUCTURAL & ARCHITECTURAL**				
165	**Earthwork excavation in soil**				
166	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	1770	cum	225.00	3,98,250.00
167	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth beyond 1.5m and upto and inclusive of 3.0m including Removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	50	cum	270.00	13,500.00
168	**Earthwork excavation in soft rock**				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. ZAK Venture Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
169	Earth work in EXCAVATION below ground level for all kinds of works in SOFT ROCK and HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as irected including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	130	cum	320.00	41,600.00
170	**Backfilling after execution of work**				
171	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps within a LEAD OF 100M,including re-excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/ mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	580	cum	1,150.00	6,67,000.00
172	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps beyond a LEAD OF 100M AND UPTO & INCLUSIVE OF 500M including re- excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	250	cum	1,325.00	3,31,250.00
173	**Transporting & Disposing the SURPLUS EARTH AND DEBRIS**				
174	Transporting and disposing the SURPLUS EARTH AND DEBRIS including shrubs and vegetations from construction areas to areas ANYWHERE OUTSIDE THE PLANT BOUNDARY, including re-excavating the deposited soil excavated earlier, loading, transportation, unloading, laying at all depths and heights, stacking,levelling and dressing both the area (viz. from where the earth is transported and where it is deposited) to required levels and slopes complete with all lifts as directed. For carting on the basis of truck measurements (volume of truck reduced by 30% for voids). DISPOSAL AREAS OUTSIDE PLANT BOUNDARY TO BE ARRANGED BY THE CONTRACTOR. Royalty as applicable for disposal outside plant limits to be borne by the Contractor	760	cum	945.00	7,18,200.00
175	**EARTH WORK FILLING BY EXCAVATION**				
176	EARTHWORK IN FILLING by excavating the earth from BORROW AREAS arranged by CONTRACTOR for all leads, transporting the earth from borrow area including cleaning & stripping the earth at borrow areas, breaking clods, loading, unloading and laying at all depths and heights in layers of thickness not exceeding 15 cms., watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% of the maximum laboratory dry density, ressing, trimming, levelling the top surface etc. in foundations, plinths, trenches etc. all complete.	4725	cum	1,650.00	77,96,250.00
177	**PLAIN & REINFORCED CEMENT CONCRETE: (REFER SPECIFICATION NO. (Z/02/0004)**				
178	**PLAIN CEMENT CONCRETE - PCC**				
179	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:4:8 (1 cement : 4 coarse sand (Zone-III) : 8 graded stone aggregate 40 mm nominal size)	105	cum	2,450.00	2,57,250.00
180	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:3:6 (1 cement : 3 coarse sand (Zone-III) : 6 graded stone aggregate 40 mm nominal size)	20	cum	2,950.00	59,000.00
181	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:2:4 (1 cement : 2 coarse sand (Zone-III) : 4 graded stone aggregate 20 mm nominal size)	120	cum	3,250.00	3,90,000.00
182	Providing and laying PLAIN CEMENT CONCRETE for all depths below and upto plinth level in foundations, drains, fillings, non-suspended floors, pavements & ramps or any other works etc. including shuttering, tamping, ramming, vibrating, curing, etc. all as specified in any shape, position, thickness and finishing the top surface rough or smooth as specified and directed all complete for concrete grade M20 with 20mm and down size graded crushed stone aggregates/Gravels. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR	110	cum	1,670.00	1,83,700.00
183	**RCC WORKS**				
184	**SUBSTRUCTURE**				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. ZAK Venture Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
185	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUBSTRUCTURE INCLUDING CENTERING & SHUTTERING) e.g. foundations, raft, beams, pile caps, Retaining walls, counterforts, buttresses, pedestals, pipe sleepers, columns, suspended floors, staircases, landings, steps, brackets etc., including equipment/ machine foundations & pedestals viz. compressors, generators, etc. (including single pour concreting as specified on the drawing), applying cement wash on concrete surface (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering, etc., wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT)for all depths below and upto plinth level in any shape, position and thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	615	cum	8,000.00	49,20,000.00
186	**SUPER STRUCTURE - EXCLUDING CONTROL ROOM BUILDING, GUARD ROOM & BOUNDARY WALL**				
187	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUPER STRUCTURE INCLUDING CENTERING & SHUTTERING in suspended floors, slabs, beams, columns, walls including counterforts, staircases, landings, steps, facias, fins, mouldings, gutters, shelves, window sills, canopies, lintels, girders, ducts, brackets, chajjas with drip moulds, pedestals, posts, struts, equipment/ machine foundations, ramps etc. (including single pour concreting as specified on the drawing), providing cement wash (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT) FOR ALL HEIGHTS UPTO & INCLUSIVE OF 20 m ABOVE PLINTH LEVEL in any shape, position, thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	70	cum	5,275.00	3,69,250.00
188	**CONTROL ROOM BUILDING (SUPERSTRUCTURE)**				
189	Construction of Control Room Building as per drawings and specification. Building work for all Superstructure works INCLUDING CENTERING & SHUTTERING , Reinforcement , masonry work, partition wall, Plastering & pointing, flooring, Floor finishes, Door & windows, rolling shutter, false ceiling, all finishes, painting, roof treatment complete in all respect etc.)	215	m2	12,500.00	26,87,500.00
190	**GUARD ROOM (SUPERSTRUCTURE)**				
191	Guard Room as per drawings and specification. Building work for all superstructure works including (Reinforcement, masonry work Plastering & pointing, flooring, Floor finishes, Door & windows, painting, roof treatment, all finishes, water supply and sanitary work complete in all respect etc.)	17	m2	12,500.00	2,12,500.00
192	**HYD Bars / MS Bars**				
193	Supplying and placing in position HIGH YIELD STRENGTH DEFORMED STEEL BARS REINFORCEMENT of Grade Fe500D TMT conforming to IS:1786, for RCC work (excluding control room building & Guard room & boundary wall superstructure) including transporting the Steel, straightening, cleaning, decoiling, cutting, bending to required shapes and lengths as per details, binding with 18 SWG black soft annealed binding wire at every intersection, supplying and placing with proper cover blocks, supports, chairs, overlaps, welding, spacers, fanhooks etc. for all heights and depths etc. all complete as directed. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE	70	MT	62,000.00	43,40,000.00
194	**STRUCTURAL STEEL WORKS (REFER TE SPECIFICATION)**				
195	Supplying, fabricating and erecting of structural steel and applying COATING (Post-erection/ Field) of approved quality and shade as per TE Specification or Job Specifications, wherever applicable) over the coat of shop primer already applied, including storage, surface preparation, degreasing, cleaning, drying, providing necessary arrangement for access, testing etc. including touching up of shop for steel structures (Including Wicket Gate, Main Gate and emergency gate, excluding ladders, spiral stairways & hand rails) at all location & levels, all complete as specified, for UNIT (INLAND) areas considering environment classification as INDUSTRIAL. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE. (Unit rate based on Structural steel weight)	25.5	MT	68,000.00	17,34,000.00
196	**MISCELLANEOUS STEEL WORKS (REFER TE - SPECIFICATIONS)**				
197	MS Chequered Plates				
198	Supplying, fabricating and erecting in position at all levels and locations bolted, screwed and/or welded M.S. CHEQUERED PLATES of any thickness in walkways, platforms, stairtreads or any other place as directed, etc. cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing, welding, preparation and submission of fabrication drawings and preparing the surfaces for painting and applying shop primer as per TE Specification after fabrication and return of unused/ scrap/ unserviceable chequered plates to Owner's store and material reconciliation etc. all complete as specified and directed	1.5	MT	75,000.00	1,12,500.00

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
199	Anchor Bolts				
200	Supplying, fabricating, fixing and keeping in position at all levels and locations THREADED ANCHOR BOLTS of all diameters and nomenclature including nuts, washers, anchor plates, pipe sleeves etc. in foundations, columns, pedestals, slabs, beams, walls etc. or any other place as directed including handling & transporting, straightening if required, turning from relevant size M.S. rounds to required diameter, threading, welding, providing necessary templates and auxiliary dummy structures, if any, necessary tying and welding with reinforcement, adjustment of shuttering & reinforcement/any other fixture, greasing exposed metal surfaces, covering bolts and packing the sleeves with jute cloth etc. all complete as specified and directed.(SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.6	MT	62,000.00	99,200.00
201	MS Metal Inserts				
202	Supplying, transporting, storing, fabricating and fixing in position M.S. METAL INSERT (with lugs) of any shape made out of flats, plates, rolled sections, pipes etc. providing necessary templates, staging, cutting,straightening, if required, bolting, welding as required and embedding in position on both Plain and Reinforced Cement concrete members inclusive of adjusting shuttering & reinforcement/ any other fixture, welding where necessary, tying and holding to correct level, line and position, any auxiliary dummy structures to support the heavy inserts, painting exposed surfaces with a coat of primer as per TE Specification all complete for all depths and heights as specified and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	0.55	MT	62,000.00	34,100.00
203	MS Grating				
204	Supplying, fabricating and erecting in position at all levels and locations ELECTROFORGED GALVANISED GRATING (purchased from approved manufacturer by the Contractor) conforming to TE STANDARD (in walkways, platforms, stair treads etc.) including cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing with manufacturer's supplied galvanised clamps, preparation and submission of fabrication drawings, all complete as specified and directed (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.85	MT	1,10,000.00	2,03,500.00
205	Hand Railing 1000mm				
206	Supplying, fabricating and fixing in position at all locations 1000mm high INCLINED HAND RAILING (for staircases) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade M.S. Tubes conforming to IS:1239 including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE SPEC. preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	1,050.00	10,500.00
207	Supplying, fabricating and fixing in position at all locations 1000mm high HORIZONTAL HAND RAILING (for platforms, walkways, etc. or any other location as directed) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade MS Tubes conforming to IS:1239 and 100x5 MS Toe Plate confirming to IS:2062 (Grade A/B), including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE standard drawing & specification, preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	1,050.00	10,500.00
208	**CHAIN LINK FENCING**				
209	Supplying, fabricating and fixing G.I. chain link fencing with 3.5mm dia. wire, 50x50mm diamond mesh chain link fence fabric conforming to IS:2721 fixed to steel/RCC posts/struts above ground level, including supply of chain link fencing fabric in 1.9 metre wide rolls, stretcher bars, staples, etc. required for fixing the fencing, fixing of chain link fencing between straining posts, fixing of bottom of fencing in cement concrete 1:2:4 blocks and painting with synthetic enamel etc. , including supply and fixing line wires, complete as per drawings, specifications and directions of Engineer -in-Charge (All materials shall be supplied by Contractor). (The measurement of chain link fencing shall be on linear basis for 1.9 m wide fencing fabric)	10	M	1,250.00	12,500.00
210	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of the Engineer-in-Charge. Made of G.I. wire of dia. 4 mm, PVC coated to achieve outer dia not less than 5 mm in required colour and shade.	600	M2	750.00	4,50,000.00

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211	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Star' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	200	M	750.00	1,50,000.00
212	**ROADS & FLEXIBLE PAVEMENT (UPTO WBM LAYER)**				
213	Preparation and consolidation of sub-grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth outside the property boundary in the un-disputed areas as directed by Engineer-In-Charge.	1500	M2	450.00	6,75,000.00
214	Supplying and laying of stone aggregate of 63mm down to 45mm size for WBM layer Base Course, tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 75mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding material of plasticity index upto 6%, including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts etc. complete as per drawings, specifications and directions of Engineer-in-Charge	4500	M2	280.00	12,60,000.00
215	**CONCRETE PAVEMENTS**				
216	Construction of dry lean cement concrete **(DLC) sub base** over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in- charge.	150	cum	1,225.00	1,83,750.00
217	Providing and laying Reinforced Cement Concrete with 20mm and down size graded crushed stone aggregates in flooring, pavements etc. including leaving pockets, if necessary, making recess/drains, laying in alternate panels, etc. for all depths including shuttering, tamping, curing, providing dowel bars with sleeves/tie bars etc where ever required at site. as specified in any shape, thickness, position and finishing the top surface smooth etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For RCC of M-30 grade concrete (all materials including cement but excluding cost of providing & fixing reinforcement and joint sealing shall be supplied by the contractor).	375	cum	5,250.00	19,68,750.00
218	Providing 20mm wide Expansion Joints in pavement slabs as per general technical specification including cleaning the joints of all loose material, filling with 20mm thick impregnated fibre boards for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved Joint Sealing Compound as per IS:1834 Type-B etc. all complete as per drawings, specifications and directions of Engineer-in-Charge	720	M	1,550.00	11,16,000.00
219	Sealing joint around pedestal and column etc. 20mm wide x 150 mm deep including filling with 20mm thick impregnated fire board for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved joint sealing compound as per IS:1834 Type-B.	300	M	275.00	82,500.00
220	**RCC PIPE CULVERTS & ELECTRICAL ROAD CROSSINGS ETC. (as per drawing & TE specification)**				
221	Supplying and laying in position RCC pipes with collars conforming to IS:458 for pipe culverts, cable crossings etc. including cutting the pipe if necessary, lowering, laying in position to proper levels, slopes etc. caulking the joints with spun yarn soaked in neat cement slurry and finishing with cement mortar 1:2 (1 cement : 2 sand) curing etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For following Class and Internal PIPE DIA (MM). (Dia (internal) - 500 mm, Pipe Class - NP3)	20	M	5,000.00	1,00,000.00
222	**U/G AND A/G G.I. PIPELINE SYSTEM - WATER SERVICES tender specification**				
223	Supplying and laying mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ ASTM A105 (Galvanized) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, earthwork in excavation for trenches, valve pits, etc. in all types of soil excluding soft and hard rock including laying of pipes in trenches, joining the pipes and fittings with threaded connections, hydrostatic testing of the piping, backfilling the trenches with selected/approved earth fill material, cutting of roads wherever required, making good the road surface after laying, disposal of surplus earth within a lead of 500 m, etc. including supply of necessary fittings etc. complete as per specifications, drawings and directions of Engineer-in-Charge. For following Nom.Size in mm. (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	650.00	6,500.00

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224	Supplying and laying above ground mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ASTM A 105 (GALVANISED) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, including laying of pipes on sleeper, walls, including erecting piping on columns, etc. for pump station, overhead tanks, etc. including joining the pipes and fittings with threaded connections, hydrostatic testing of the piping including supply of necessary fittings etc & pipe supports. complete as per specifications, drawings and instructions of Cement Supplied by contractor (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	650.00	6,500.00
225	**MISC. CIVIL AND STRUCTURAL WORKS FOR U/G PIPING AND OTHER CIVIL WORKS**				
226	Providing and laying brick masonry with locally available bricks of specified class (Brick of class lower than specified shall not be accepted) in cement mortar 1:4 (1 cement : 4 Coarse sand) in one or more brick thickness and in any shape in foundation and plinth for valve pits, drains, circular/square manholes, wing walls, etc. including providing recesses, openings, etc. including curing, finishing the joints flush below ground level and raking out joints in plinth with all labour and material, etc. complete as per drawings, specifications and direction of Engineering-Charge. For following Brick Class.	280	cum	3,245.00	9,08,600.00
227	Providing 13mm thick average cement plaster in cement mortar 1:3 (1 cement: 3 sand) on brick walls/stone masonry/pitching or on concrete surfaces for manholes, valves pits, culverts, wing walls, etc. including cleaning and preparation of the surface, scaffolding, curing etc. for all depths and heights complete as per drawings specifications and direction of Engineer-in-Charge.	750	M2	3,450.00	25,87,500.00
228	**UNDERGROUND SEWER SYSTEM - RCC PIPES**				
229	Supplying and laying underground R.C.C. pipes sewers with socket and spigot ends conforming to IS:458 of approved make, to proper grade and alignment, including earthwork in excavation in all types of soil except soft and hard rock for pipe trenches, etc. including dewatering, shoring and shuttering if necessary, dressing of sides, leveling, grading and ramming of bottoms, cutting the				
230	(Dia (Internal) - 100 mm, Piping Material Class - NP2)	15	M	750.00	11,250.00
231	(Dia (Internal) - 150 mm, Piping Material Class - NP1)	15	M	1,250.00	18,750.00
232	(Dia (Internal) - 450 mm, Piping Material Class - NP2)	70	M	1,750.00	1,22,500.00
233	**UNDERGROUND SEWER SYSTEM-HDPE PIPES**				
234	UNDERGROUND SEWER SYSTEM-HDPE PIPES :- Supplying and laying HDPE pipes conforming to IS:4984 of approved make to proper grade and alignment, including earthwork in excavation for trenches etc. in all types of soil except soft and hard rock including dewatering till completion of subsequent works, shoring and strutting, if necessary, dressing the sides, leveling, grading and ramming the bottom, jointing the pipes using hot plates as per manufacturer's recommendation, lowering, providing and laying 1:5:10 (1 cement : 5 sand : 10 aggregate) plain cement concrete of minimum 100mm thickness on bottom and side of pipe as directed, connecting the pipes to manholes and grouting the pipes to manhole/valve chamber walls, including supplying and fixing the specials and fittings, such as bends, reducers, tees, elbows, caps etc. conforming to IS:8008 or fabricated from pipes as per specification, supplying and fixing of flanges, fixing of online valves, including fixing of bolts, nuts and gaskets etc. as per specifications, testing, draining of water and cleaning of pipes after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness, watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit, cutting of road wherever required, making good the same etc. complete for all depths as per drawings, specification and instruction of Engineer-in- Charge. For the following nominal diameter (mm) Pressure Rating(Kg/Cm2).	50	M	750.00	37,500.00
235	**PLUMBING AND BUILDING DRAINAGE**				
236	Supplying and fixing approved quality Cast Iron soil/waste pipe conforming to IS:1729 below ground with necessary specials, bends such as Y-junction, T- junction (both single and double) including plugs, shoes, cowls, jointing with lead caulked joints and testing, cutting in floors, earth work in excavation, encasing the pipe in 50mm THK, PCC M20, backfilling and removal of surplus earth upto a lead of 50M etc. complete as per drawings, specifications and directions of Engineer-in-Complete				
237	100mm dia (All materials including cement supplied by contractor)	10	M	45.00	450.00
238	80mm dia (All materials including cement supplied by contractor)	10	M	45.00	450.00
239	**Supplying and fixing gun metal globe valve conforming to IS:778, complete as per specifications and directions of Engineer-in-Charge.**				
240	Dia - 50 mm	2	Nos	25,000.00	50,000.00
241	**Constructing of brick masonry valve chamber in 1:4 Cement mortar(1 cement: 4 sand) with CI frame & cover fixed on M-20 grade cement concrete , necessary excavation, M-20 grade foundation concrete, 13mm thick 1:3 cement plaster on inside & all exposed surfaces, backfilling, removal of surplus earth for all leads within the complex limit etc. complete as per**				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. ZAK Venture Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
242	Dia - 50 mm, Brick Class - 5)	2	EACH	25,000.00	50,000.00
243	Providing and fixing approved stone ware 100mmx100mm dia. gully trap as per tender specification, including grating with CI frame and cover 300mmx300mm including brick masonry (brick class shall be as mentioned below) chamber in 1:4 cement mortar(1 cement: 4 sand) on M-20 grade cement concrete foundation, plastered inside and outside surfaces with 1:3 cement mortar (1 cement: 3 sand) with 13mm average thickness including providing and fixing light duty CI frame and cover, painting CI frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat, earth work in excavation, backfilling, removal of surplus earth, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry etc. all complete as per drawings, specifications and directions of Engineer-in-Charge				
244	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	25,000.00	50,000.00
245	Construction as per(Design basis & general technical specification) of brick masonry (brick class shall be as mentioned below) inspection chambers/manholes of 750mmx750mm internal size 1000mm deep(Max.) in cement mortar 1:4 (1 cement: 4 sand) with CI frame and cover 500mm clear dia, (circular Medium duty of grade MD-10) conforming to IS:1726 fixed on RCC slab of M-30				
246	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	35,000.00	70,000.00
247	Construction, supplying, installation, testing and commissioning of septic tank as per standards and IS:2470 Part-I , with all necessary accessories like inlet, outlet vent pipes, manhole covers, rungs etc. including earthwork in excavation in all type of soil except soft and hard rock, backfilling and disposal of surplus earth for all leads etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge				
248	All material including cement supplied by contractor for (Users - 10 NOS)	1	Nos	48,000.00	48,000.00
249	**MISCELLANEOUS ITEMS**				
250	Supplying and fixing in position entrance gate in complex boundary wall fencing manufactured out of steel frame work and square MS bars of 20 mm at 100 c/c and horizontal name plate band at lock rail level suitably hinged with box type steel post embedded in cement concrete i.e. providing the tension bar for smooth operation and locking arrangement etc. complete as per tender specification, including painting with two coats of anti-corrosive paint and two coats of approved aluminium/synthetic enamel paint etc. complete as per drawings, specifications and directions of Engineer-in-Charge.				
251	4.0M clear opening width of gate in two panels.	3	Nos	1,25,000.00	3,75,000.00
252	Supplying & Laying interlocking Paver Blocks for roads, footpaths and any other place etc. including providing 50 mm thick sand filling below Paver Blocks including compaction of sand layer, filling the joints by dry sand, providing precast kerb stone of PCC M-20 at edges, including preparation of compacted sub-grade etc. all complete as per drawing, standard and directions of Engineer-in-Charge. (All material including cement supplied by contractor, paver blocks shall confirm to IS: 15658. cloour and shape of paver block shall be as per owner requirements for following thickness of paver blocks				
253	**(Thickness - 60 mm)**	285	M3	1,050.00	2,99,250.00
254	Supply and installation on terrace, high density polyethylene drinking water circular tank as per IS:12701 and ISI marked including supply and installation of all fittings, cover with suitable locking arrangement, float valve, making necessary holes for inlet, outlet and overflow connection and vent pipe etc. and the base supports for tank including supply of all necessary material all complete as per specifications and directions of Engineer-in-charge. (Sintex or equivalent having valid ISI license) for following capacities.				
255	**capacity - 500 litre**	2	Nos	5,500.00	11,000.00
256	Supplying, installation, testing and commissioning of Upflow Anaerobic Filter with bleaching tank as per TE Std. Drawing with all necessary accessories like, Upstream inlet CI piping from septic tank, Downstream outlet RCC NP2 class piping up to surface storm water drains, CI pipes for filter chamber, CI valve, RCC pre-cast pit covers, steps, perforated pre-cast slabs etc., inlet chamber, Filter chamber, deluding chamber including earthwork in excavation in all type of soil including soft rock, backfilling with murrum or approved soil arranged by the contractor, disposal of surplus earth etc. complete as per drawings, specification and direction of Engineering-Charge (All materials including cement shall be supplied by the contractor, Brick Class lower than 5.0 shall not be used).	1	Nos	5,000.00	5,000.00
257	**DEMOLISHING AND DISMANTLING**				
258	**Brickwork**				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. ZAK Venture Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
259	**Demolishing BRICKWORK** (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	240.00	2,400.00
260	**Demolishing BRICKWORK** (taking all necessary safety precautions) for all heights **above plinth level** including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	270.00	2,700.00
261	**RCC**				
262	**Demolishing RCC WORK** (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	350.00	3,500.00
263	**Demolishing RCC WORK** (taking all necessary safety precautions) for all heights **above plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	380.00	3,800.00
264	**PCC**				
265	**Demolishing PLAIN CEMENT CONCRETE** work (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc. disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation and backfilling shall be paid separately under relevant items)	10	cum	240.00	2,400.00
266	**MISCELLANEOUS ITEMS (REFER TE SPECIFICATION)**				
267	**Sand Filling**				
268	Supplying and filling approved SAND of specified quality under floors, in foundations, plinths, tank foundations etc. for all depths and heights including cost of sand,royalties,transportation to site for all leads and lifts, including loading, unloading, spreading in layers of loose thickness not exceeding 150 mm,watering,ramming,compacting with mechanical compactors and/or other equipment to the specified levels to achieve 85% relative density as per IS:2720 Part XIV,including preparation of subgrade to the required slope, providing testing apparatus and testing the degree of consolidation all complete as per drawings, specifications and direction of Engineer-in-charge. The rates shall be inclusive of the cost of all labour,material,equipments etc. all complete .	100	cum	450.00	45,000.00
269	**SAND GRAVEL MIX**				
270	Supplying and filling sand gravel mix (1:1) with approved aggregate below road, RCC pavement, manholes, pits, foundations, bedding of UG piping etc. in layers of 150 mm loose thickness (maximum) including watering, ramming, rolling, compacting to achieve 85% relative density as per IS 2720 Part-XIV, quarrying, royalties, transportation, handling, etc. all complete as per drawings, specifications and directions of Engineer-in- Charge. (The rate shall be inclusive of the cost of all labour, material, equipment etc. all complete)	105	cum	450.00	47,250.00
271	**GROUTING WITH NON-SHRINKABLE COMPOUND**				
272	Providing and laying manually or by pumping at all positions a ready mix non-shrink cementitious grout of compressive strength specified below for specified works e.g. pipe support, base grouting of rotating equipment and other installation complete in all respects as per scope of work, detailed construction drawings , technical specifications and directions of the Engineer-In-Charge.				
273	Having compressive strength of 30 N/mm2 , Per bag of 25 Kg	100	Bags	50.00	5,000.00
274	Having compressive strength 45 N/mm2 , Per bag of 25 Kg	20	Bags	50.00	1,000.00

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. ZAK Venture Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
275	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains, SS trench of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.	7.5	m2	5,250.00	39,375.00
276	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, leve and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	13.5	cum	2,500.00	33,750.00
277	Providing and fixing factory made precast RCC **perforated drain covers**, having concrete of strength not less than M-25, of size 1000x450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos. cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of the Engineer-In-Charge.	515	EACH	1,780.00	9,16,700.00
278	**Borewell and recharge well**				
279	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job all complete as per drawing, direction of Engineer -in-charge, in all types of soil :	130	M	1,200.00	1,56,000.00
280	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge.	130	M	1,500.00	1,95,000.00
281	Providing and fixing Bail plug/ Bottom plug of required diameter to the bottom of pipe assembly of tubewell as per IS:2800 (Part-I). :150mm dia	3	EACH	5,000.00	15,000.00
282	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	550.00	2,750.00
283	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	395.00	1,975.00
284	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	480.00	2,400.00
285	Gravel packing in tubewell construction in accordance with IS:4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of the Engineer-In-Charge.	3	cum	6,500.00	19,500.00
286	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS:4270, of reputed & approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size dia having minimum wall thickness 5.00 mm	5	M	3,750.00	18,750.00
287	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	60	M	150.00	9,000.00
288	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/ 3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS:8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	25	M	3,750.00	93,750.00

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289	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of 150 mm diameter	1	Nos	5,500.00	5,500.00
290	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS:2800 (Part-I), including necessary bolts & nuts of required size complete 150 mm diameter.	1	Nos	5,500.00	5,500.00
291	Supply, Installation and commissioning of 1.5HP Borwell Submersible Pump	1	EACH	9,500.00	9,500.00
292	Supply and Installation of 3Cx10Sqmm Copper Flat Cable	200	M	140.00	28,000.00
293	**LANDSCAPING**				
294	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment).	335	cum	2,100.00	7,03,500.00
295	Fine dressing of the ground.	1105	M2	3,250.00	35,91,250.00
296	Providing & laying Selection no. 1 grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden and than rolling the surface with light roller make the surface smoothen and light watering the same maintenance for 30 days or more till the grass establish properly,as per direction of officer in charge	1105	M2	3,250.00	35,91,250.00
297	Conducting topographical ground/land survey in the specified area as shown in the tender drawings by conventional/GPS or any other standard method, covering details of physical features like Rivers, Nallahs, Lakes, Ponds, wells, pits, Forest, Trees, Roads, culverts, transmission lines, telegraph/ telephone and electric poles, underground or any other services, cross drainage works	4220	M2	68.00	2,86,960.00
298	**GEO TECHNICAL INVESTIGATION (Z/02/0022)**				
299	Conducting soil investigation with boring including all field tests and laboratory tests, mobilization and demobilization of equipments & personnel etc. for soil investigation for each borehole location. complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of Reports & recommendations and supply of electronic files	5	Nos	45.00	225.00
300	**ANTI-TERMITE TREATMENT**				
301	Supplying chemical emulsion in sealed containers including delivery as specified in the Technical Specifications.				
302	Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	200	LITRE	850.00	1,70,000.00
303	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
304	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc. as per Techinal specifications and direction of engineering in charge: With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	80	METRE	450.00	36,000.00
305	Treatment of soil under floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the floor:				
306	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	250	SQM	110.00	27,500.00
307	Supply and installation 60mm dia GI pipe for column support of gate	15	M	450.00	6,750.00
308	Supply and installation 100mm dia MS pipe	15	M	450.00	6,750.00
309	Supply and installation 50mm dia MS pipe	15	M	650.00	9,750.00
310	Supply and installation of U-PVC pipes (working pressure 4 kg / cm²) Single socketed pipe 75 mm dia for weep holes	200	M	260.00	)00.00

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311	**Sub-Total Section C**				**4,63,93,735.00**
312	**SECTION-D [CATHODIC PROTECTION WORKS]**				
313	**CATHODIC PROTECTION SYSTEM**				
314	**Cathodic Protection system**				
315	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning & Monitoring of the temporary cathodic protection [TCP] system using galvanic anodes to protect the external surface of the pipeline against soil-side corrosion for minimum 2 year or till commissioning of permanent CP system whichever is later . All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard drawings and vendor list as attached with this tender and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	22,75,000.00	22,75,000.00
316	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning of permanent cathodic protection system for 40 years. The scope of work also includes post commssoning surveys and repair of coating/ rectification of cathodic protection system based on the post commissioning surveys. In additon to the same, AC Interference study on the pipelines to be performed and mitigation measures takes to the satisfaction of Owner/ CONSULTANT. All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard and vendor list attached and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	40,00,000.00	40,00,000.00
317	**Sub-Total Section D**				62,75,000.00
318	**SECTION-E [ELECTRICAL WORKS]**				
319	**ELECTRICAL**				
320	**SWITCH BOARDS / UPS SYSTEM/ PANEL**				
321	Supply , Installation, testing and commissioning of LT Switch-boards, AC UPS system with UPS Distribution board & Ni-Cd Battery banks , distribution boards, cubicles with electrical equipment, misc. electrical panels etc., including transportation from store/yard to site at the place of installation, unpacking, assembly, including mounting and wiring of loose parts supplied by equipment vendor, interconnection of shipping sections and requisite inter-panel wiring between shipping sections, including supply of all wiring materials, installation on foundations or fixing to wall or steel structures, aligning, levelling, grouting, including all labour and materials, as per approved drawings, specifications of this tender and directions of Engineer-in-Charge.				
322	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted MEDB	1	Nos	3,500.00	3,500.00
323	Supply , erection , termination , earthing and commissioning of wall mounted OLDB as per single line diagram of DT stations	1	Nos	2,500.00	2,500.00
324	Supply , erection , termination , earthing and commissioning of wall mounted ILDB as per Single line diagram of DT stations	1	Nos	2,600.00	2,600.00
325	Supply , erection , termination, earthing and commissioning of wall mounted SSDB as per Single line diagram of DT stations	1	Nos	2,800.00	2,800.00
326	Supply , erection , termination , earthing and commissioning of wall mounted AC DB as per Single line diagram of DT stations	1	Nos	3,600.00	3,600.00
327	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 6 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of DT stations	1	SET	45,000.00	45,000.00

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

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S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
328	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for DT stations.	1	SET	45,000.00	45,000.00
329	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 1 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of RT stations	1	SET	52,000.00	52,000.00
330	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for RT stations.	1	SET	48,000.00	48,000.00
331	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted Emergency DB	1	Nos	8,500.00	8,500.00
332	Supply , erection , termination , earthing and commissioning of 32A, 4P, 25kA Auto Change-Over switch as per Single line diagram of DT station-JHARIA	1	Nos	8,500.00	8,500.00
333	**POWER AND CONTROL CABLE**				
334	Supply , laying , termination , erection and testing of 1.1 KV Power and control FRLS PVC Outersheath, XLPE insulated, armored Cables . Outdoor cable will be laid in buried cable trench and in Indoor cable will be laid in Cable trench by provision of Cable tray and supports inside the trench as per PTS - Electrical package P.017110 G 11077 E002				
335	3.5C x 95 sqmm AL FRLS XLPE	300	M	650.00	1,95,000.00
336	3.5C x 70 sqmm AL FRLS XLPE	300	M	650.00	1,95,000.00
337	3.5C x 50 sqmm AL FRLS XLPE	50	M	550.00	27,500.00
338	3.5C x 25 sqmm AL FRLS XLPE	100	M	520.00	52,000.00
339	4C x 16 sqmm CU FRLS XLPE	100	M	530.00	53,000.00
340	3C x 2.5 sqmm CU FRLS XLPE	170	M	490.00	83,300.00
341	3C x 6 sqmm CU FRLS XLPE	250	M	390.00	97,500.00
342	4C x 6 sqmm CU FRLS XLPE	350	M	290.00	1,01,500.00
343	2C x 6 sq.mm CU FRLS XLPE	100	M	350.00	35,000.00
344	2.5 sqmm Cu. Wire	1800	M	295.00	5,31,000.00
345	6 sqmm Cu. Wire	600	M	250.00	1,50,000.00
346	**Earthing & Lightning**				
347	Supply , Installation , testing and comissioning of GI Earth electrodes & Cu plate type earth pit complete with earth pit as per IS 3043, PTS-Electrical package and all necessary material including exacavation of earth pit , filling with charcol and salt , back filling, brick work , connections including all labour and materials as approved drawing and specification of this tender and direction of Engineer-In charge.				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. ZAK Venture Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
348	GI Earth Electrodes				
349	65mm dia x 3000 mm L GI pipe electrode type Earth pit	17	Nos	3,500.00	59,500.00
350	**Cu plate Earth Electrode**				
351	600x600x3mm Cu plate type Earth pit	8	Nos	29,000.00	2,32,000.00
352	**Earth strip and wire**				
353	50x 6 mm GI Flat strip	850	M	360.00	3,06,000.00
354	25 x 6 mm Cu Flat strip	50	M	280.00	14,000.00
355	2.5 Sqmm Cu wire	250	M	220.00	55,000.00
356	25 x 6 mm GI Flat strip	200	M	220.00	44,000.00
357	10 Sq.mm earthing cable	250	M	240.00	60,000.00
358	GI Earth Bus 50x 6 Sq.mm with all installation assesories	3	Nos	1,200.00	3,600.00
359	Cu. Earth Bus 50x 6 Sq.mm with all installation assesories (in control room)	4	Nos	1,300.00	5,200.00
360	25x3 mm GI Flat for Lightning as well as down conductors for DT station as per overall earthing layout and GGNG-E-20713-3007	80	M	230.00	18,400.00
361	Other lightning assesories like 20mm dia copper rod, hollosphere ,200x200x6mm ms plate ,anchor/fastner ,test links for DT station as per overall earthing layout and GGNG-E-20713-3007	1	LOT	5,000.00	5,000.00
362	**OUTDOOR Lighting**				
363	Supply , erection , Testing & commissioning of Outdoor area lighting system including with supply of flameproof / weather proof light fixture , pole , junction box and earthing including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender & Overall outdoor lighting layout of DT & RT station and directions of Engineer- In charge.				
364	100W FLP LED Fixture & FLP Junction box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	4	Nos	850.00	3,400.00
365	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	2	Nos	950.00	1,900.00
366	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in RT Stations.	7	Nos	950.00	6,650.00
367	1x160W FLOOD LED Fixture with weather proof junction box & 9 mtr high pole with all assesories for open area	6	Nos	1,050.00	6,300.00
368	1x70 W Solar type Street LED Fixture with weather proof junction box, VRLA Battery (72 hrs backup time) & 9 mtr high pole for street lighting	4	Nos	950.00	3,800.00
369	1x27 W Post Top Lantran LED Fixture for Gate with weather proof junction box for Gate lamp	2	Nos	750.00	500.00

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. ZAK Venture Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
370	1x36 W LED industrial fixture suitable to building parapet /wall with all assesories like weather proof junction box/clamp/reducer/	2	Nos	850.00	1,700.00
371	**INDOOR Lighting**				
372	Supply, erection, Testing & commissioning of Indoor building area lighting system including with supply of light fixture, point wiring including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender and directions of Engineer- In charge.				
373	2x20 W LED recessed decorative fixture for control room	5	Nos	650.00	3,250.00
374	2x20W LED Industrial Fixture for Electrical room	2	Nos	850.00	1,700.00
375	1x40W LED Flameproof Fixture for Battery room	1	Nos	850.00	850.00
376	2x18W LED Industrial Fixture for Varanda/Toilet/ water cooler area/ Guard room	6	Nos	750.00	4,500.00
377	1x36W LED Industrial Fixture	4	Nos	750.00	3,000.00
378	2x20 W LED recessed decorative fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) control room.	2	Nos	750	1,500.00
379	2x20W LED Industrial Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Electrical room	2	Nos	750.00	1,500.00
380	1x40W LED Flameproof Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Battery room	1	Nos	900.00	900.00
381	**Switch socket**				
382	Supply and Installation of single/ three phase Switch socket as per Indoor Illumination layout for DT & RT and PTS-Electrical Package and directions of Engineer-In Charge				
383	5/15A surface type switch socket (1 Ph)	7	Nos	220.00	1,540.00
384	5A flush type switch socket (1 Ph)	4	Nos	220.00	880.00
385	16A Switch socket (I Ph)	3	Nos	220.00	660.00
386	20A Switch socket for AC (1 Ph)	4	Nos	220.00	880.00
387	Flame proof Junction box for Exhaust fan in Battery room	2	Nos	220.00	440.00
388	32A Switch socket for welding receptacles (3 Ph)	1	Nos	220.00	220.00
389	Modular switch board	12	Nos	220.00	2,640.00
390	**FANS and Exhaust FAN**				

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TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. ZAK Venture Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
391	Supply ,Installation and testing of Ceiling Fan and Exhaust fan with louvers including all labours and materials as per Indoor Illumination layout for DT and PTS-Electrical Package and directions of Engineer-In Charge				
392	Ceiling Fan 230V AC 1200 mm sweep	3	Nos	4,500.00	13,500.00
393	450 mm FLP Exhaust Fan for Battery room	2	Nos	4,500.00	9,000.00
394	200 mm Exhaust Fan for Toilet	1	Nos	4,500.00	4,500.00
395	300 mm Exhaust Fan for Electrical room/ CO2 room	3	Nos	4,500.00	13,500.00
396	**Air conditioning unit**				
397	Supply ,Installation and testing of Five star 1.5 Ton Split AC with outdoor compressor unit including all labours and materials as per Typical Indoor Illumination layout for DT and directions of Engineer-In Charge				
398	Split Air condition Five star 1.5 Ton	4	Nos	55,000.00	2,20,000.00
399	**Hardware and other Accessories**				
400	Supply and Installation of Hardware and other accessories including all labours and materials as per Tender specification PTS-Electrical Package P.017110 G 11077 E002 and directions of Engineer-In Charge				
401	Rubber mat	15	M	320.00	4,800.00
402	Rubber hand gloves	1	PAIR	300.00	300.00
403	Warning Marker	1	Nos	450.00	450.00
404	PVC Conduit with bend ,tee and other required assesories	1	LOT	6,000.00	6,000.00
405	CAUTION Board & Sock treatment chart	1	Nos	650.00	650.00
406	Cable route marker as per Standard drawing TE-IN-STD-G-0327	1	LS	3,500.00	3,500.00
407	Fire extingusher and SAND Bucket with Stand	1	SET	18,000.00	18,000.00
408	Ladder type Cable tray - hot dip Galvanized Prefabricated 450 mm wide	55	MTR.	1,100.00	60,500.00
409	Perforated type Cable tray hot dip Galvanized Prefabricated 450 mm wide	35	MTR.	1,200.00	42,000.00
410	Cable Glands				
411	Cable Glands : Flame proof IIA/IIB double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				

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TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**			**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL**	**Rev.00** **Date-11.02.2022**
				Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**

M/s. ZAK Venture Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
412	Cables with upto OD 20 mm & above OD 20 mm as per Single line diagram of DT & RT station	1	LOT	5,000.00	5,000.00
413	Cable Glands : Weather proof double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
414	Cables with upto OD 20 mm to 40 mm as per Single line diagram of DT & RT station	1	LOT	5,000.00	5,000.00
415	**Sub-Total Section E**				**30,01,910.00**
416	**SECTION-F [INSTRUMENTATION WORKS]**				
417	**INSTRUMENTATION**				
418	**SUPPLY**				
419	Supply of Pressure Transmitter along with 2 valve manifolds with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	8,500.00	42,500.00
420	Supply of Pressure gauge including high range along with 2 valve manifolds with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	18	Nos	6,500.00	1,17,000.00
421	Supply of Pressure gauge including Low Range along with 2 valve manifolds, gauge saver with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	3	Nos	8,500.00	25,500.00
422	Supply of temperature element (RTD) along with flanged thermowell mounted for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	7,560.00	37,800.00
423	Supply of Temperature Transmitter with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	7	Nos	7,500.00	52,500.00
424	Supply of skin type temperature element (RTD) for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I003), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	2	Nos	7,500.00	15,000.00
425	Supply of Local control panel with all accessories as per Data sheet (P.017110 G 11087 I011), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, SAT of local control panel,supports/ frame fabrication, earthing and screwing plug for unused entries, painting and integration with RTU. Termination of all Other panel SCADA hard wired signal including RS-485 signals through LCP for RTU/SCADA by Bidder. 1. Digital Barriers	2	Nos	15,000.00	30,000.00
426	Supply of Ex-proof junction box with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, iincluding Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.	4	Nos	3,500.00	14,000.00
427	Supply of Corrosion Monitoring system with corrosion coupon, Corrosion probe, transmitter and digital indicator (mounted in LCP) as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
428	Corrosion coupon along with accessories.	2	Nos	22,000.00	)00.00

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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429	Corrosion probe along with transmitter, digital indicator, barriers and accessories.	2	Nos	26,000.00	52,000.00
430	Supply of Conventional Type Microprocessor based fire detection system along with smoke detector, heat detector, cabinet, manual call point, Independent 24 Hrs battery backup with 15 min in alarm state, repeater panel and Electrical Operated Siren, exit signs and cables fromsensor ,MCP, siren, hooter to controller as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
431	Controller along with cabinet along with cabling	1	Nos	9,500.00	9,500.00
432	Multisensor (smoke & heat)	10	Nos	15,000.00	1,50,000.00
433	WP IP 65 Manual call points	6	Nos	12,500.00	75,000.00
434	Ex Proof and WP IP 65 Manual call point	1	Nos	2,250.00	2,250.00
435	WP Hooter & Flasher	1	Nos	3,600.00	3,600.00
436	Repeater panel	1	Nos	2,500.00	2,500.00
437	Exist sign	6	Nos	1,500.00	9,000.00
438	Electrical siren Exd	1	Nos	1,600.00	1,600.00
439	24 Hrs battery backup	1	Nos	1,65,000.00	1,65,000.00
440	Supply of Conventional type gas detection system along with controller, ex proof point gas detectors, beacon hooter, flasher, , cabinet, portable gas detector, calibration kit, alignment kit as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
441	Controller with cabinet	1	Nos	9,800.00	9,800.00
442	Point gas detectors	12	Nos	8,500.00	1,02,000.00
443	Panel Mounted hooter	2	Nos	6,500.00	13,000.00
444	Dual tone Hooter & Beacon Ex"d" with reset push button	2	Nos	7,500.00	15,000.00
445	Portable gas detecotrs	1	Nos	12,500.00	12,500.00
446	Calibration kit	1	Nos	9,500.00	9,500.00
447	Ex d Junction Box	2	Nos	3,600.00	7,200.00
448	Supply of Universal type Hand Held Configurators for transmitters with carrying case, rechargeable batteries (one working and one standby), and battery charger as per Data sheet,PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work	1	Nos	4,500.00	4.500.00

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		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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449	Supply of Instrumentation signal cable, control cable, communication cable/LAN cable, Power cables along with all sizes cable glands (WP & Exd), PVC hood, lug, ferrule, etc including Cable laying (buried as well as tray) along with termination, glanding, meggering and loop checking including supply of ferrule, lugs, cable tie, cable clamp, cable marker etc. as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.				
450	1Px 1.5mm2	500	MTRS.	250.00	1,25,000.00
451	12Px 0.5mm2	900	MTRS.	220.00	1,98,000.00
452	1Qx1.5mm2	30	MTRS.	190.00	5,700.00
453	12Tx1.5mm2	200	MTRS.	210.00	42,000.00
454	1Tx1.5mm2	180	MTRS.	160.00	28,800.00
455	6Px0.5mm2	200	MTRS.	190.00	38,000.00
456	2Px1.5mm2	200	MTRS.	220.00	44,000.00
457	Cat 5 (LAN)	160	MTRS.	210.00	33,600.00
458	3C x 2.5mm2	240	MTRS.	260.00	62,400.00
459	Supply & laying of Instruments cable tray with tray cover (Branch Cable tray (50mm x 50mm), Main cable tray 900 mm, cable tray 300mm, cable tray 150 mm.) as per requirement, instruments/ PGD, CCTV/ mounting poles, instrument protection sun sheds, angles, channels, MS plates & all the erection materials and as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including installation of support, cable clamping, installation of tray cover and support painting.	1	LS	35,000.00	35,000.00
460	Supply , installation & laying of tubes and fittings as per requirement and as per PTS-Instrumentation with appendices and Scope of Work C&I. SS 316L TEE (1/2", Class 3000#, Screwed, NPTF, Seamless) ,SS316L GLOBE/BALL VALVE (1/2", Class 800#, Screwed, NPTF, Seamless), SS316L PLUG (1/2", Screwed, NPTM, Hex head, class 3000#), SS316L PIPE NIPPLE (½" NPTM, seamless, schedule #160) Length of the pipe nipple as per requirement, SS316L MALE CONNECTOR (1/2" OD x 1/2" NPTM), SS316L FEMALE CONNECTOR (1/2"OD x 1/2" NPTF), SS316L UNION (1/2" OD), SS316L TUBE (1/2" OD x 0.065" WT), SS316L TUBE (1/4" OD x 0.035" WT)	1	LS	45,000.00	45,000.00
461	Supply of mandatory spares as per Mandatory Spare (P.017110 G 11075 I001)	1	LS	35,000.00	35,000.00
462	AT Jharia - Installation of metering skids, metering cabinet under the supervision of skid supplier, cable laying and terminal of cable from skid junction box to metering system cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	28,000.00	28,000.00
463	At Jharia Installation of gas chromatograph skid, analyser & controller cabinet under the supervision of skid supplier, cable laying and terminal of cable from analyser cabinet to controller cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	32,000.00	32,000.00
464	At Jharia Installation of H2S & Moisture analyser skids, cabinet under the supervision of skid supplier, laying and terminal of cable from skid field mounted cabinet to LCP/RTU. Including supply of all the required erection, fabrication and civil materials.	1	LS	45,000.00	45,000.00
465	At SV 28 Spare Input output available in existing RTU, internal wiring at site, field connection, configuration and commissioning., interfacing with LCP and configuration of new parameters in existing RTU, as per Scope of Work.	1	LS	19,500.00	19,500.00

Prepared Checked Approved

TRACTEBEL ENGIE	ANNEXURE - I BIDDER'S PRICE EVALUATION LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010	PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
		Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

M/s. ZAK Venture Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
466	**Sub-Total Section F**				**18,39,250.00**
467	**SECTION-G [TELECOM WORKS]**				
468	Supply Telecommunication system, SDH equipment STM-4 Based SDH Cabinet of (2000H x 800W x 800W along with 100 mm base frame) as per below configuration: - 2*STM-4 + 2*STM-1 + 8FE ports as per PTS-Telecommunication system (P.017110 G 11077 I002), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including erection, testing, integration with existing NMS at Noida, Commissioning and integration with existing telecom system at SV 28 additional SFP of L4.2 for SV 28 connectivity	1	Nos	15,600.00	15,600.00
469	Supply of CCTV-IP based Fixed colour camera and PTZ colour camera along with power cable, communication cable at each station as per PTS-Telecommunication system (P.017110 G 11077 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work., including erection, testing, integration with existing VMS at Noida, Commissioning and integration with existing telecom system at SV 28				
470	Fixed Camera WP IP65	1	Nos	32,000.00	32,000.00
471	PTZ camera WP IP65	1	Nos	36,000.00	36,000.00
472	Supply of one Analog phones control room, one number in guard room and one number WP IP66 in field safe area as per PTS-Telecommunication system (P.017110 G 11077 I002) , PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work				
473	Analog Phone	2	Nos	1,800.00	3,600.00
474	Analog Phone Ex Proof WP IP 65	1	Nos	4,500.00	4,500.00
475	FXO cards	1	Nos	2,500.00	2,500.00
476	FXS	1	Nos	2,500.00	2,500.00
477	Five pair armoured telephone cable, size 0.5mm2	100	MTR.	450.00	45,000.00
478	AT Jharia- Free issue RTU by GAIL: Transportation from Gail store to site location, installation, cabling from LCP to RTU, commissioning etc. Erection, installation of RTU inside the station control room including supply of all the required erection materials, fabrication and civil works	1	LS	28,000.00	28,000.00
479	At SV 28 Spare Input output available in existing RTU, internal wiring at site, field connection, configuration and commissioning., interfacing with LCP , cable laying from LCP to RTU, and configuration of new parameters in existing RTU, as per Scope of Work.	1	LS	36,000.00	36,000.00
480	**Sub-Total Section G**				**2,05,700.00**
	Total of Section A + B + C + D + E + F + G				**10,28,49,057.00**
479	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Total of Section A + B + C + D + E + F + G above	18	percentage		1,85,12,830.26

Prepared

Checked

Approved

TRACTEBEL ENGIE	**ANNEXURE - I** **BIDDER'S PRICE EVALUATION** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

M/s. ZAK Venture Pvt. Ltd.

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
480	Rate of Extended Stay Compensation per month beyond the time schedule and grace period mentioned in Bidding document for reasons solely attribute to Owner (exclusive of GST) Notes:- 1;- Extended Stay Compensation shall be loaded on the quoted price as per evaluation methodology. 2;- In case, no rate for extended stay compensation is stipulated, it will be considered that extended stay compensation is not required by the Bidder and the rates quoted by them shall be valid till completion of works in all respects.	1	Nos		7,20,000.00
481	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Extended Stay Compensation at Sl. No. 480 above	18	percentage		1,29,600.00
	Grand Total				12,22,11,487.26

Prepared

Checked

Approved

TRACTEBEL ENGIE	**ANNEXURE - II** **COMPARISON OF BIDDERS EVALUATED PRICES FOR LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

Sl.no	DESCRIPTION	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR									
		M/S. AMP Infra Pvt. Ltd.	**M/S. Corrtech Energy Limited**	**M/S. Enprocon Enterprise Ltd.**	**M/S. Jaihind Projects Limited**	**M/S. NOPS Infrastructure Private Limited**	**M/S. Potaliya Enterprises**	**M/S. Shakti Engineers**	**M/S. Techno Global Services Pvt. Ltd.**	**M/S. Tolani Projects Private Limited**	**M/S. Vichitra Constructions Pvt. Ltd.**
1	TOTAL PRICE INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	22,28,40,120.00	28,72,97,599.00	25,06,96,590.00	25,63,54,640.20	38,57,42,842.00	34,07,37,395.00	33,17,11,050.00	24,83,45,085.00	26,39,92,566.00	26,71,82,077.50
2	Extended Stay Compensation for one month	0.00	10,00,000.00	5,00,000.00	5,00,000.00	27,50,000.00	10,00,000.00	7,00,000.00	10,000.00	11,70,000.00	10,000.00
3	Total including ESC	**22,28,40,120.00**	**28,82,97,599.00**	**25,11,96,590.00**	**25,68,54,640.20**	**38,84,92,842.00**	**34,17,37,395.00**	**33,24,11,050.00**	**24,83,55,085.00**	**26,51,62,566.00**	**26,71,92,077.50**
4	GST @ 18%	4,01,11,221.60	5,18,93,567.82	4,52,15,386.20	4,62,33,835.24	6,99,28,711.56	6,15,12,731.10	5,98,33,989.00	4,47,03,915.30	4,77,29,261.88	4,80,94,573.95
5	GRAND TOTAL INCLUDING GST	**26,29,51,341.60**	**34,01,91,166.82**	**29,64,11,976.20**	**30,30,88,475.44**	**45,84,21,553.56**	**40,32,50,126.10**	**39,22,45,039.00**	**29,30,59,000.30**	**31,28,91,827.88**	**31,52,86,651.45**
	STATUS OF THE BIDDER	**L1**	**L7**	**L3**	**L4**	**L10**	**L9**	**L8**	**L2**	**L5**	**L6**

*** Extended stay compensation charges including GST for 1/5th of the time schedule or 1(one) month, whichever is less shall be taken into account for evaluation. Since 1/5th of project schedule is 2.2 months, charges for 1 (one) month is considered for evaluation.**

Prepared | Checked(C1) | Checked (Finance) | Approved(Project Manager)

TRACTEBEL engie	**ANNEXURE - II** **COMPARISON OF BIDDERS EVALUATED PRICES** **FOR** **LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**	**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**

Sl.no	DESCRIPTION	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR											
		M/s. Adorn Infra Energy Pvt. Ltd.	**M/s. AMP Infra Pvt. Ltd.**	**M/s. Corrtech Energy Ltd.**	**M/s. Enprocon Enterprise Ltd.**	**M/s. Jaihind Projects Ltd.**	**M/s. Oval Projects Engineering Pvt. Ltd.**	**M/s. Potaliya Enterprises**	**M/s. Shakti Engineers**	**M/s. Shree Balaji Engineering Services**	**M/s. Tolani Projects Pvt. Ltd.**	**M/s. Vichitra Constructions Pvt. Ltd.**	**M/s. ZAK Venture Pvt. Ltd.**
1	TOTAL PRICE INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	11,11,55,971.00	12,88,54,460.00	13,52,98,794.00	12,41,54,230.00	15,72,38,193.70	12,69,96,689.50	16,10,65,755.00	13,71,70,200.00	12,95,30,675.00	15,91,95,033.00	13,81,82,183.25	10,28,49,057.00
2	Extended Stay Compensation for one month	6,50,000.00	0.00	10,00,000.00	5,00,000.00	5,00,000.00	1,50,000.00	10,00,000.00	7,00,000.00	5,00,000.00	11,70,000.00	10,000.00	7,20,000.00
3	Total including ESC	**11,18,05,971.00**	**12,88,54,460.00**	**13,62,98,794.00**	**12,46,54,230.00**	**15,77,38,193.70**	**12,71,46,689.50**	**16,20,65,755.00**	**13,78,70,200.00**	**13,00,30,675.00**	**16,03,65,033.00**	**13,81,92,183.25**	**10,35,69,057.00**
4	GST @ 18%	2,01,25,074.78	2,31,93,802.80	2,45,33,782.92	2,24,37,761.40	2,83,92,874.87	2,28,86,404.11	2,91,71,835.90	2,48,16,636.00	2,34,05,521.50	2,88,65,705.94	2,48,74,592.99	1,86,42,430.26
5	GRAND TOTAL INCLUDING GST	**13,19,31,045.78**	**15,20,48,262.80**	**16,08,32,576.92**	**14,70,91,991.40**	**18,61,31,068.57**	**15,00,33,093.61**	**19,12,37,590.90**	**16,26,86,836.00**	**15,34,36,196.50**	**18,92,30,738.94**	**16,30,66,776.24**	**12,22,11,487.26**
	STATUS OF THE BIDDER	**L2**	**L5**	**L7**	**L3**	**L10**	**L4**	**L12**	**L8**	**L6**	**L11**	**L9**	**L1**

*** Extended stay compensation charges including GST for 1/5th of the time schedule or 1(one) month, whichever is less shall be taken into account for evaluation. Since 1/5th of project schedule is 2.2 months, charges for 1 (one) month is considered for evaluation.**

Prepared | Checked(CP) | Checked (Finance) | Approved

ANNEXURE III - TRACTEBEL COST ESTIMATE

LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A

TENDER ID: 2021_GAIL_99100_1
TENDER REFERENCE NO.: P.017110 G 11031 R010

S. NO.	WORK DESCRIPTION AND SUPPLY	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
				UNIT RATE	TOTAL RATE
1	**SECTION-A (MAIN LINE WORKS)**				
2	**CH.0.00 KM to CH.23.436 KM**				
3	**MAINLINE, PIPING AND MECHNICAL**				
4	**PIPELINE LAYING / INSTALLATION** Laying/ installation of coated line pipe, associated fittings and accessories, etc. as per specifications, drawings, other provisions of Contract and instructions of Engineer-in-Charge, including but not limited to carrying out the following: "Receiving and taking-over", handling, loading, transportation and unloading of Owner supplied coated and bare line pipes and other Free Issue Materials from Contractor's own stock-yard to Work site including stringing on the pipeline Right-of-Use (ROU), Arrangement of all additional land required for Contractor's storage, Performing the additional survey wherein survey data is not sufficient in the opinion of Contractor, arrangement of working RoU if RoU width is not sufficient for equipment/ vehicle movement etc., access for construction (other than Owner provided ROU; Developing necessary access way to the worksite, including earth filling, levelling, etc.; supply of all materials (except Owner supplied materials), supply of all materials, consumables, equipment, labour, etc.; fabrication, Staking and installation of construction markers, clearing, grubbing, grading (as required) of Right of Use; clearing and grading of ROU; Cutting/ uprooting of shrubs, plants, vegetation within ROU; , Trenching to all depths and to a width to accommodate the pipeline with optical fiber cable (inside HDPE Duct) by excavation in all types of soil (in case of hard rock, additional payment for hard rock breaking will be paid as per separate SOR line item), including additional trenching for seismic and other areas as specified,(Rate for laying of optical fibre cable and HDPE Duct not be included here and same to be quoted against separate SOR item); Carrying out repairs of pipe and coating defects not attributable to Owner; Thorough internal cleaning of all pipes by suitable methods to remove debris, shots, grits etc.; Stringing of line pipes along ROU including providing straw bags, soft padding/sand padding; Aligning, cold field bending, cutting and beveling (as required) of pipes for welding and field adjustments, NDT & NDT of re-beveled area, welding, carrying out destructive & non- destructive testing of welds required as per approved NDT specifications (including radiography) and providing all requisite equipment, labour, supervision, materials, films, consumables etc.; carrying out repairs of weld joints as required, carrying out re- radiography and other non-destructive tests on repaired joints, etc.; Installation of carrier pipe including concrete coated pipes (wherever required),				
5	(Concrete Coating on pipes, covered separately) at all crossings including roads/ canals/ nala/ water crossings etc. (supply and installation of casing pipe by open cut or by Jacking/ boaring method covered separately) including pre-testing as required; Carrying out installation of carrier pipe in the casing pipe at cased crossings; Coating of all field weld joints, long radius bends (fabrication of Cold field bends covered here and fabrication of 6D bends by induction heating covered separately), buried fittings etc.; Supply & Installation of warning tape along the entire length of Pipeline including Crossing. Lowering the pipelines in trench, providing required padding over and around the pipeline with sand/graded material (in rocky areas), backfilling with available approved excavated material and/or other suitable soil (supply and providing of soft soil for pre & post padding in Rocky area); Supply and installation of slope breaker as per specifications and drawings in steep slope areas, wherever required; Carrying out hydrostatic testing including air cleaning, flushing, filling, gauging, pressurization of complete pipeline in various test sections as approved by Engineer-In-Charge to the specified test pressure, providing all equipment, pumps, fittings, instruments, dead weight tester, all types of pigs etc., and services, supervision, labour, consumables, arranging water required for hydrostatic testing including supply of corrosion inhibitor, air, etc. as required, locating of leaks and rectification of defects attributable to Contractor, re-testing after rectification, successful completion of hydro-testing of pipeline (De-watering covered else where in the SOR); including all tie-in(s) with the pipeline/ piping installed by others including cutting of test header, re- beveling as required; Carrying out all temporary, ancillary, auxiliary works and all incidental works required to make the pipeline ready for pre- commissioning; Carrying out EGP for the entire stretch of completed pipeline, Repair of defects recorded during EGP/gauge plate run or otherwise including cutting, beveling, welding, NDT, field joint coating etc.; as applicable, Final clean-up and restoration of right of use including obtaining NOC from respective statutory authorities as required and disposal of debris and returning all surplus material to designated disposal areas/storage yard, as directed by Engineer-In-Charge; Restoration of land, facilities and boundary wall etc. at associated facilities dismantled/damaged by the Contractor during construction; Obtaining work permits/ NOC from various statutory authorities having jurisdiction and complying with all stipulation/conditions/recommendation of the said authorities; Preparation of as-built drawings, pipe-book and other records. SOR shall be read in conjunction with Project drawings, scope of work, specifications, standards and other provisions of contract document. The work includes the Survey data & site preparation, Stringing/Chainges in direction, Beveling of pipe element, Welding Procedure Qualification & Welders Qualification, Welding of pipe element, Inspection & testing of production welds, Field joint coating, controlled blasting, chiseling, etc., Material hand over & material handling, Lowering-in & ballasting, All crossings except HDD as mentioned in Crossing List (including installation of carrier pipe inside the Casing at cased crossing) , Backfilling (for all depths in all types of soil, soft /hard rock) , including trench padding with sand, graded earth in rocky areas & rock shield(if required as per specs) reinstatement (restoration) and preparation of As-built Alignment & Crossing drawings.				
6	All above works shall be executed in accordance with scope of work, GTS, PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. 1. Supply and Installation of OFC and HDPE Ducts along the entire pipeline route, adjacent to the new pipeline, along with all required accessories, fittings and associated items, is covered separately in the SOR. All above works for buried pipeline (including hook-up pipeline from Tap Off Point inside ONGC GCS, …er following details :				

7	ND12", API5L X70 - 6.4 mm	6500	M	3,359.84	2,18,38,960.00
8	ND12", API5L X70 - 7.1 mm	15850	M	3,630.00	5,75,35,500.00
9	ND12", API5L X70 - 8.7 mm	150	M	3,882.00	5,82,300.00
10	**Concrete slabs (Mechanical Protection) as per technical specifications** Supply, fabrication and installation of reinforced concrete weights. Reinforced steel size should be 8 mm. top and bottom at a rate of 200 mm c/c of precasted RCC 1:2:4 on pipeline of wall thickness of 75 mm thick and size as per specifications & Standard drawings and instructions of Owner/ Owner's representative including supply of consumables, materials, equipment, labor, supervision, all associated civil works.	382	M	1,852.00	7,07,464.00
11	**Continuous Concrete Coating** Supply of all consumables and materials, equipments, manpower, submission of application procedure with calculations for anti-buoyancy, design mix procedure qualification and application of continuous concrete weight coating thickness mentioned below (higher also, in case design requirements) on pipeline of all thickness, concrete weight coating of the field joints thereof, and performing all works as per specifications and instructions of Owner/Owner's representative and other provisions of CONTRACT DOCUMENT.				
12	35 mm thick	12	M	2,410.98	28,931.76
13	50 mm thick	12	M	3,444.00	41,328.00
14	**GEO TEXTILE BAGS FOR ANTI-BUOYANCY**				
15	Additional works over and above item no. 4 to 9 for design, manufacture and supply of Non-biodegradable geo-textile bags and installation of geo-textile bags duly filled with gravel/ stone ballast on pipelines of all wall thicknesses for anti-buoyancy, drawings, scope of work and instructions of Engineer-in-Charge and other provisions of the Contract document. Note: This item shall be applicable for Some crossings as per instructions of Engineer-incharge.				
16	ND12" (for all thicknesses)	12	M	2,200.00	26,400.00
17	**Permanent Markers** Supply, fabrication and installation of following types of permanent markers along the pipeline route including all associated civil works such as excavation in all types of soil, construction of pedestals and grouting with concrete, clearing, supply & application of approved color and quality of primer and paint, stencil letter cutting for numbers, direction, chainage, etc. restoration of area to original condition and performing all works as per drawings, specifications and instruction of Owner/Owner's Representative.				
18	Pipeline Warning Signs	35	Nos	3,135.00	1,09,725.00
19	Right-of-way boundary markers	94	Nos	1,650.00	1,55,100.00
20	Kilometer Markers	19	Nos	3,732.00	70,908.00
21	Aerial Markers	4	Nos	15,180.00	60,720.00
22	Navigable Waterway Markers	8	Nos	22,140.00	1,77,120.00
23	Directional Markers	297	Nos	3,765.00	11,18,205.00
24	**Repair of Defects in Pipe Coating (Attributable to OWNER)**				
25	**Repair of Line Pipe Coating:** Supply of all coating repair materials as per the requirements of the relevant specifications, supply of all consumables, utilities, equipment, and all manpower required, pipe cleaning and surface preparation, repairing of coating defects (resulting in holiday in coating) and testing including all handling, transportation, etc. for line pipes, performing all works necessary for the completion of the works strictly in accordance with the relevant specifications and instructions of OWNER.				
26	**Repair of Holidays in Coating**	40	Nos	958.00	38,320.00
27	Repair of Cosmetic Defects in Coating: Description of same as in 25 above, but for repair of cosmetic defects in coating.	80	m2	2,319.00	1,85,520.00
28	Repair of Defects in Line Pipes				

29	Repair of OWNER supplied pipes of all wall thicknesses, recorded at the time of taking-over by CONTRACTOR at all places of work.				
30	Cutting and rebevelling	25	Nos	3,469.00	86,725.00
31	Jack out method	25	Nos	3,469.00	86,725.00
32	All works for locating burst (occurred during hydrostatic testing and tightness test attributable to Owner issued materials) including detecting burst, necessary repairing/replacing defective pipe lengths, including cutting out and removing the defective pipe, pretesting the replacement pipe, welding of replacement pipe into mainline and NDT of welding, repair and re-testing of defective welds, coating of welded joints, cleanup, retesting including providing all labor, materials, consumables and inputs other than OWNER supplied materials and performing all works as per drawings, specifications and directions of Owner/ Owner's representative. In case of pinhole leaks not easily detectable all works for locating leak (occurred during mechanical resistance test and tightness test attributable to Owner issued materials) including detecting leak, The Payment will be made as per actual efforts and based on Equipment and manpower Rate provided in SCC . Further replacement & retesting will be paid as above.	2	Per burst	1,49,545.00	2,99,090.00
33	**LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER) (FOR TERMINAL PIPING)** **LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER DUE TO FIM)** All works for leak/burst (occurring during hydrostatic testing) by necessary repair/replacement of defective pipe length, including cutting and removing out defective pipes, welding, NDT of welds, repair and re-testing of defective welds, painting of welded joints, clean-up, re hydro testing of the pipe segment including providing all necessary equipment, labour, materials, consumables and inputs other than Owner supplied materials and performing all works as per drawings, scope of work, specifications, standards enclosed with the Contract and directions of Engineer-in-Charge. Note: 1. This rate shall be applicable for manufacturing defects in Company supplied materials only.	18	Inch-meter	1,036.00	18,648.00
34	**IDLE TIME PRESERVATION OF PIPELINE** Preservation of complete pipeline and associated facilities and its maintenance including supply of all consumables, all equipment, man- power, etc., complete as per the requirements of specifications, scope of work, standards, other provisions of Contract document and instructions of Engineer-in- Charge. By filling and pressurizing with nitrogen including supply and maintenance of nitrogen as per following details:				
35	Pipe OD - 12 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - 3 MONTH	23800	M	27.00	6,42,600.00
36	Pipe OD - 12 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - FOR EVERY ADDITIONAL MONTH BEYOND INITIAL 3 MONTHS	23800	M	27.00	6,42,600.00
37	PRE-COMMISSIONING FOR NATURAL GAS PIPELINES SYSTEM, Carrying out pre-commissioning activities and pre-commissioning checks to the specified acceptance criteria, making the entire pipeline system ready for commissioning (It includes cleaning including magnetic cleaning, Electrical Geometrical Pigging survey, dewatering, swabbing,, pre-drying activity, Golden-tie ins connecting the stations),, supply of all equipment, man-power, consumables, including all type of pigs and required quantity of nitrogen, materials for all temporary works and performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.				
38	Pipe OD - 12 INCH	23800	M	42.00	9,99,600.00
39	**Commissioning Assistance**				
40	**OVERALL COMMISSIONING OF ENTIRE PIPELINE SYSTEM** Overall commissioning including system checks, inertisation (as required) and charging of entire pipeline system, including all stations and all associated facilities including notifying the Company that the pipeline system is ready for commissioning; Review of status jointly with the Company and obtaining final clearance for start of commissioning; Development and submission of commissioning procedures, obtaining Company approval thereupon, carrying out overall commissioning of the total pipeline system including all facilities and all necessary coordination/ liaison with other Contractor(s) operations; Carrying out commissioning; Supply of all equipment like Nitrogen vapourisers (as required), along with all piping and instruments, temporary venting/ flaring/draining facilities as applicable, man-power, consumables including pigs and required quantity of Nitrogen (as required); Performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.				
41	Pipe OD - 12 INCH	23800	M	33.33	7,93,254.00

42	PIPELINE INFORMATION MANAGEMENT SYSTEM Providing pipeline information management system using web based software for monitoring pipeline construction progress and providing all "As Built" data & drawings for entire length of pipeline as per specifications enclosed with the tender document.	1	LS	15,00,000.00	15,00,000.00
43	VIDEO FILM & PHOTOGRAPHY OF CONSTRUCTION ACTIVITIES Preparation of high resolution video films with audio commentary and Industrial photography covering all aspects/activities of pipeline construction annotated as required, conversion of same to video DVD/Blue Ray format, submitting three (3) sets of the same as per details in scope of work document	1	LS	2,91,931.01	2,91,931.01
44	**FABRICATION OF LR BENDS :**				
45	Fabrication of 6D bend / LR (Induction) bends as per the relevant standard & Specification attached with the tender document from free issue linepipes (mother pipe) including but not limited to the following: "Receiving and taking over of free issue linepipes" from GAIL Dump Yard location as mentioned in Scope of Work, carrying out inspection of line pipe at the time of receive taking over in the presence of Company representative, carrying out repair of pipe defects attributable to Contractor after taking over, including supply of consumables & equipments; handling, hauling, transportation and loading/unloading required to transport the mother pipes between place of issue, LR bend fabricator/ manufacturer, intermediate storage as required, and final delivery of fabricated LR Bends to the worksite(s), as per requirement, Manufacturing/ fabricating of LR Bends, as per project requirements and Specifications. LR bends exact angle(s) shall be as per pipeline alignment. Note:- 1. Rate for repairing of defects in linepipes identified and recorded at the time of receiving & taking over i.e. defects attributable to Company shall be quoted separately in the applicable items of the SOR. 2.Loading of Pipe into installation contractor trailer shall be carried out by the GAIL Dumpyard maintenance agency already engaged by the Company.				
46	Bare Pipe ND12", API5L X70 - 7.1 mm	18	Nos	95,000.00	17,10,000.00
47	Bare Pipe ND12", API5L X70 - 8.7 mm	22	Nos	1,00,000.00	22,00,000.00
48	**SUPPLY AND INSTALLATION OF CASING PIPE & 6 INCH CS CONDUIT:** Supply and installation of casing pipe and 6 inch CS conduit for OFC by jacking / boring or open cut for rail, road or canal crossings wherever required in all types of soils and terrain separately for carrier pipes and fibre optic cable inside HDPE duct, supply of casing pipes and all other Contractor supplied materials viz. casing insulators and casing end seals as per enclosed drawing, materials for casing vents and drains, etc. including transportation, supply of all other materials, equipments, consumables, man-power, welding including visual inspection of all weld joints, installation of casing insulators, end seals, vents and drain-off pipes, backfilling and restoration as original of the facility crossed and performing all works as per drawings, specifications including PTS and GTS and instructions of Engineer-in Charge and provisions of Contract document.				
49	Supply and installation of Casing pipe by Boring / Jacking as per item no. 48 (Other than Railway Crossings) Casing Pipe Details: (Pipe 18" , 6.4 mm Thick, API 5L GR.B)	100	M	13,200.00	13,20,000.00
50	Supply and installation of 6 inch CS Conduit by Boring/Jacking as per item no. 48 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	100	M	6,600.00	6,60,000.00
51	Supply and installation of Casing pipe by open cut as per item no. 48 Casing Pipe Details: (Pipe 18" , 6.4 mm Thick, API 5L GR.B)	100	M	5,500.00	5,50,000.00
52	Supply and installation of 6 inch CS Conduit by open cut as per item no. 48 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	100	M	4,400.00	4,40,000.00
53	**HDD CROSSING**				

ANNEXURE III - TRACTEBEL COST ESTIMATE

LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A

TENDER ID: 2021_GAIL_99100_1
TENDER REFERENCE NO.: P.017110 G 11031 R010

54	**Generalities**				
55	Topographic / Bathymetry, Geotech Investigation and Hydrological data collection				
56	Site preparation				
57	Design & stress calculations as per requirement				
58	Material hand-over and material handling				
59	Site reinstatement				
60	Final dossier including all notes & calculations as required in the specification				
61	**Installation of 6 inch CS Conduit**				
62	Teletransmission--Separate Drilling for 6 inch CS Conduit for OFC installation				
63	Installation of HDPE duct & OFC cable inside 6 inch CS conduit				
64	Drilling & Pulling of 6 inch CS Conduit shall be done before mainline HDD.				
65	**Pipeline string**				
66	Beveling & welding				
67	Inspection & testing of welds				
68	Field joint coating				
69	Temporary support (roller)				
70	Control of pipeline string				
71	Hydrotesting & leak test				
72	**Drilling operation**				
73	Earthwork entry / exit points including grading erection of embankment etc..				
74	Supply & clearing out of all material needed for drilling				
75	Drilling of washer pipe, reaming & cleaning of drill opening, supply and preparation of bentonite				
76	Pull back of the pipe string				

77	Disposal of surplus of soil & bentonite				
78	Control of the integrity of the coating				
79	**Work at entry point**				
80	Changes in direction				
81	Beveling & welding				
82	Inspection & testing of welds				
83	Field joint coating & coating of all bare section of pipe				
84	Earthwork				
85	Lowering-in				
86	backfilling as required				
87	**Work at exit point**				
88	Changes in direction				
89	Beveling & welding				
90	Inspection & testing of welds				
91	Field joint coating & coating of all bare section of pipe				
92	Earthwork				
93	Lowering-in				
94	backfilling as required				

95	Complete work for the water/ Road/ Rail crossings, including taking over and handling of linepipes from Contractor Storage Yard to worksite, Arrangement of all additional land required for Contractor's storage, fabrication, access for construction; construction design calculation and engineering of the crossing, mobilization and demobilization at site(s), supply of all materials as per "Scope of Supply" and all consumables, equipment, manpower and other resources, and acquiring the required land for site preparations, and execution of, but not limited to, the following works in accordance with specifications, drawings, and as per provisions of the Contract document and instructions of the Company/ Engineer-in- Charge: Carry out all surveys required for collecting data relevant to design and construction of the crossing, preparation of all necessary construction drawings for Company's approval as per the provisions of the Contractor document, Preparation of detailed construction method statement and calculations including Scour Depth calculations for river/ canal crossings, Strings preparation including welding, 100% Radiography of welds, NDT of welds and re-beveled areas, radiography, weld repair and re-test, pre-testing of completed string, corrosion coating of field joints with Dirax or equivalent, inspection of corrosion coating and repair of defects, Preconstruction surveys and collection of all necessary data, Installation of pipeline and CS conduit (6 Inch CS Conduit shall be installed through Seperate Drilling) , horizontal directional drilling to the correct profile as per approved drawings and specification, Post-installation hydrotest including leaks and repair of defects and retesting, etc. for defects attributed to Contractor's faulty work, Supply, fabrication and construction of protective fencing as required, Hydrotesting, Supply, fabrication and erection of pipeline markers, Restoration and clean-up etc., Preparation of as-built drawings and other records etc., All other works not specifically listed herein, but required as per specifications, drawings, provision of contract document, calculations, and construction method statements, leading to successful completion of works.				
96	Linepipe details:- (Pipe 12" dia, Wall Thickness: 7.1 mm, Pipe Grade: API 5L GR.X-70 PSL 2, External Coating: 3LPE) CS Conduit details: (Pipe 6" dia, 6.4mm Thick, API 5L GR.B) Note: 1. CS Conduit shall be supplied by the Contractor. Radiography & Hydrostatic testing is not required to be done for CS Conduit. (6 Inch CS Conduit shall be installed through Seperate Drilling) Contractor shall quote accordingly. 2. The rate shall be applicable for the drilled length of the HDDs.	1300	M	48,667	6,32,67,100.00
97	All above works shall be executed in accordance with scope of work, GTS,PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. This line item is applicable for HDD crossing mentioned in the Crossing List with prior approval of Engineer - In-Charge during Construction.				
98	**SUPPLY & INSTALLATION OF OPTICAL FIBBE CABLE AND HDPE DUCT**				
99	Suppy of 24 Fibre Composite armoured Optical Fibre Cable drum (6 fibre G-655 & 18 fibre G-652) of 4 km +/-5% Cable drum length with fiber terminal closure, inspection chamber, electronic route marker all along pipeline route, Two number electronic locater as per PTS-Optical Fibre cable and Scope of Work C&I along with all required accessories and fitments not mentioned seperately.	26200	M	75	19,65,000.00
100	Inspection/Jointing Chamber (fabricated or readymade)	8	Nos	6,325	50,600.00
101	Blowing Pit (fabricated or readymade)	25	Nos	6,325	1,58,125.00
102	Supply of jointing closure 24 Fiber, 2 way including all accessories (3M, Siemens, Reychem make only)	10	Nos	3,450	34,500.00
103	Supply of End to End OFC termination of wall mounted FTC with pig tails other accessories for termination of OFC - 24 Fibre in the Telecom Room at Bokaro & SV1	2	Nos	17,250	34,500.00
104	Electronic marker	8	Nos	4,025.00	32,200.00
105	Electronic Locator	1	Nos	2,30,000.00	2,30,000.00
106	Supply of 50mm OD permanently lubricated HDPE telecom duct along with all the required accessories as per PTS-Optical Fibre cable and Scope of Work C&I	26700	M	73.50	19,62,450.00

107	Laying of HDPE Duct : Laying of 50mm HDPE Ducts in same pipeline trench direct buried, or inside 6 inch CS conduit at various crossings as per Specification in all type of soil & terrain, excavated as required, padding, backfilling, etc. including supply of accessories required for HDPE Duct installation, including plastic couplers, end plugs, cable sealing plugs, end caps, etc. suitable & sufficient for above supplied ducts, cleaning and sealing of ducts at the end laid drum lengths, preparation and supply of cable blowing pit at each Km jointing of HDPE duct, testing of HDPE Duct and accessories after laying preparation of report and final drawing and documents as per specification, joint location marking, erection accessories, as-built, etc.	22500	M	29.00	6,52,500.00
108	Blowing of Optical Fibre Cable inside HDPE Duct : All activities pertaining to Blowing of Optical Fibre Cable in same pipeline trench directly (after testing drum at site), inside HDPE duct along the pipeline and at crossing, sealing using all materials required as per specification	22500	M	39.50	8,88,750.00
109	Installation of FTC & Wire mesh, termination of OFC on FTC / DDF inside telecom room, splicing with steet fibre, fibre test, OTDR test, power testing of laid OFC, identification of fault, rectification, earthing, final testing and commissioning, preparation of reports, etc. work complete in all respect with all necessary accessories for all location till final Handing Over and Taking Over by Owner of laid OFC.	1	LS	86,250.00	86,250.00
110	**TRANSPORTATION OF COATED AND BARE LINEPIPES FROM GAIL DUMPYARDS (ANY LOCATIONIN INDIA) TO CONTRACTOR STORAGE YARD:**				
111	"Receiving and taking over" of "free issue" Linepipes from GAIL Dump Yard location (any location in India); Carrying out inspection of Linepipes at the time of receiving and taking-over, recording of pipe & coating defects at the time of taking over in the presence of Company's representative, carrying out repair of coating defects & pipe defects attributable to Company; including supply of materials, consumables & equipments; handling, hauling and transportation from designated place of issue to Contractor Storage Yard; unloading and stacking of the linepipes at Contractor Storage Yard; including arranging all equipments, trailers, trucks & manpower; all works as per Scope of Work, drawings, PTS, GTS and other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, Provision of Contract & instructions of Engineer InCharge.				
112	Linepipe Details:- Coated and Bare Line Pipe 12" diameter API 5L Gr. X-70 PSL-2 Wall Thickness - 6,4mm / 7.1mm / 8.7 mm External Coating - 3LPE, Internal Coating - Liquid Epoxy 1) Loading of Pipes into Installation contractor's trailer shall be carried out by the contractor. 2) Development & Maintenance of Contractor Storage Yard adequate to store the linepipes including arrangement of all Lifting & Handling equipment at Contractor's Storage Yard shall be done by the Contractor. Rate for the same shall be quoted in applicable items. 3) Rate for repairing of coating defects in linepipes identified and recorded at the time of receiving & taking over i.e. coating-defects attributable to Company shall be included in this item. 4) Rate for repairing of pipe-defects identified and recorded at the time of receiving & taking over i.e. pipe-defects attributable to Company shall be quoted separately in the applicable items of the SOR. 5) Transportation of line pipe from Contractor's Storage Yard to work site is included in SOR item 1 above, No separate payment will be applicable for the same.	220000	Ton-Km	32.00	70,40,000.00
113	**TRANSPORTATION OF FREE ISSUE PIPING ITEMS (OTHER THAN LINE PIPE) FROM GAIL STORAGE YARDS (ANY LOCATION IN INDIA) TO CONTRACTORS YARD / WORKSITE(S) :** "Receiving and taking-over", handling, lifting, loading, transportation and unloading of Company supplied "free-issue materials" (Other than line pipe) viz. Metering Filtering and PRS Skid, Scrapper Launcher/ Receiver & accessories, Valves with or without Actuators, Insulation Joints, Flow Tee, Pig Signallers, fittings, flanges etc. from GAIL Storage yards location (any location in India) to Contractor's Storage Yard / work-site(s). Note:- 1) Location of GAIL Storage Yard shall be anywhere in India. Contractor shall quote accordingly. 2) Transportation of FIM from Contractor's Storage Yard to work site, is included in SOR item 121 below, No separate payment will be applicable for the same.	15000	Ton-Km	41.66	6,24,900.00
114	**DEVELOPMENT OF CONTRACTOR STORAGE YARD:**				

115	Development of the Contractor Storage Yard including fencing, illumination etc., including deployment of all lifting and handling equipments, manpower required to stack, unload and load all Free Issue Material (FIM) including Line Pipes and all bought out items, as required; storage of all Free Issue Material and bought out items for the required duration as per project requirement, all works as per Scope of Work, drawings, other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, PTS, GTS and Provision of Contract & instructions of Engineer In-Charge. The storage yard shall be used for storage of all Free Issue Line pipes, all other Free Issure Material (FIM) and all bought out items required for the project. Notes:- 1) Development of contractor storage yard adequate to store all the material required for Project, including all Free Issue Material (FIM) and bought out items. (Rate for the same shall be captured in this item) 2) Maintenance of contractor storage yard for the entire project period is included in the scope of contractor. No separate payment shall be applicable for the same.	1	LS	10,94,390.00	10,94,390.00
116	Hard Rock breaking by controlled blasting / chiseling method (rate will be applicable in case when prior approval for rock breaking is obtained by the contractor from GAIL / PMC)	100	M3	948.42	94,842.00
117	Clean Agent Fire Supression System as per Scope of Work	1	LS	14,76,742.19	14,76,742.19
118	Restoration of underground utilities (pipes & cables) during excavation at ONGC, GCS Bokaro and Receiving Station (which is inside SV-01 Premises)	10	Nos	27,500.00	2,75,000.00
119	**Sub-Total Section A**				**17,48,85,523.96**
120	**SECTION-B [MECHANICAL (PIPING & TERMINAL WORKS)]**				
121	**PIPING WORKS AT DESPATCH AND RECEIVING STATIONS AND HOOK-UP WITH ONGC GCS, BOKARO** All works for installation of all piping at all elevations for Despatch and Receiving Stations as indicated in Drawings, Scope document, including supply of all consumables, Gaskets, nuts, bolts Studs, manpower, materials and equipment (except Company supplied free-issue materials), aligning, grouting, tie-in with pipeline and carrying out all mechanical works of underground and above ground piping including fabrication, welding, installation of all pipes, valves (manual & actuated), flanges, fittings, flow tees, pig signalers, insulating joints, corrosion monitoring probes /corrosion coupons, installation of instruments (pressure/temperature gauges, vents, drains-off, safety relief valves, electro hydraulic valves etc.) as indicated in P& IDs and GADs. 100% Radiography of weld joints of piping above 1.5 inch, Magnetic particle & Die penetration test for piping 1.5 inch & below, all NDT of welds, weld repairs/retesting, hydrostatic testing, cleaning/flushing, functional testing, de-pressurizing , Drying and dewatering, cutting and re-beveling (as required), hookup of all pipeline/utilities at the battery limit with the pipeline/utilities installed by others, obtaining all statutory clearances, approvals and permissions for the work (wherever required), excavation and filling in all types of soils including soft/hard rock for installation of piping/ pipe supports; corrosion coating and external painting (as required), finishing, clean-up and restoration of site, preparation of as- built drawings, documents and project records and performing all works as per drawings, specifications, other provisions of Contract document and instructions of Engineer-in-Charge. Civil/ structural works for piping supports will be paid separately as per unit rate provided elsewhere in the contract. Cost of Transportation of all materials (Including FIM mentioned above) for station works, from Contractor's own stock-yard to Work site, to be included in this SOR item. No separate payment will be applicable for the same.				
122	Fabrication and Erection of piping as per item no.110, (For Pipe Size 2 Inch and above, 100% Radiography) Note: 1. Rate for Handling, Fabrication and erection of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item. Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor.Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes 2" & above, shall also be part of this item. Contractor shall quote accordingly.	1900	Inch Dia Meter	870.87	16,54,653.00
123	Fabrication & Erection of Piping as per item no.110 (For Pipe Size Below 2 inch, Magnetic particle & Dye Penetration Test as per the requirement of specification)	50	Inch Dia Meter	1,109.02	55,451.00
124	Painting of Piping (Pipe, Fittings, Flanges, Valves, Equipments, etc.) as per item no. 110	1950	Inch Meter	83.00	1,61,850.00
125	Hydrostatic testing, cleaning / flushing, functional testing, de-pressurizing, dewatering & drying of Piping as per item no. 110 (for all size upto 12").	1950	Inch Meter	67.54	1,31,703.00
126	**INSTALLATION OF COMPANY SUPPLIED FIM (FML SKID AND PIG LAUNCHER/RECEIVER SYSTEM) AT DESPATCH TERMINAL AND RECEIVING TERMINAL**				

ANNEXURE III - TRACTEBEL COST ESTIMATE

LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A

TENDER ID: 2021_GAIL_99100_1
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127	Installation of Company supplied Filtering, Metering and PRS Skid and Scrapper Launcher/ Receiver with accessories, at stations including all handling and installation works; as per drawings, specifications enclosed with the Contract and directions of Engineer-in-Charge. Cost of Transportation of above Free issue items, from Contractor's own stock-yard to Work site for station works, to be included in this SOR item. No separate payment will be applicable for the same.	1	LS	4,95,000.00	4,95,000.00
128	**CONTRACTOR SUPPLIED ITEMS:(Supply of Items as per attached PTS,GTS,Data Sheet,QAP and PMS)**				
129	**Station pipe -Seamless**				
130	1" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, PE, SEAMLESS	6	Meter	1,109.00	6,654.00
131	2" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	90	Meter	2,068.00	1,86,120.00
132	4" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	120	Meter	3,046.00	3,65,520.00
133	10" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	12	Meter	11,614.00	1,39,368.00
134	12" pipe, 7.1mm thk, ANSI B 36.10, API 5L X 70,HFERW	84	Meter	6,747.00	5,66,748.00
135	**Supply of fittings & Flanges**				
136	1 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 350 LF2,CL1, BW, ANSI B16.25	4	Nos	1,298.00	5,192.00
137	1" WNRF FLANGES, 6C1, SCH. 160 / 600#, WNRF, B-16.5, ASTM A350 LF2, CL1, BW-ANSI B16.25 RF	4	Nos	1,098.00	4,392.00
138	1", BLIND FLANGES, 6C1, 600#, RF, B-16.5, ASTM A350 LF2, CL1, RF	4	Nos	968.00	3,872.00
139	3/4" EQUAL TEES, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25,	2	Nos	323.00	646.00
140	3/4", CUP THREADED 6C1, 6000#, ANSI B16-11, ASTM A 350 LF2, CL1 , BW - ANSI B16.25, ANSI B1.20.1,	3	Nos	216.00	648.00
141	**WELDOLETS (MAINLINE x BRANCH SIZE)**				
142	4" x 1", WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	4	Nos	2,297.00	9,188.00
143	12" x 2" WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 7.1 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 694 F70	5	Nos	7,085.00	35,425.00
144	12" x 2", WELDOLETS (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 7.1 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	35	Nos	7,085.00	2,47,975.00
145	**GASKETS**				
146	GASKETS, 6C1, 600#, RF, ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 1"	12	Nos	82.00	984.00
147	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 2"	210	Nos	129.00	27,090.00
148	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 4"	30	Nos	287.00	8,610.00
149	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 10"	2	Nos	1,100.00	2,200.00
150	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 12"	44	Nos	1,273.00	56,012.00
151	**NIPPLES**				
152	NIPPLES, 6C1, Sch 160 /600#, ANSI B 36.10, ASTM A333 GR.6, BOTH ENDS PLAIN, SEAMLESS-LG=100mm, 3/4"	10	Nos	322.00	3,220.00
153	NIPPLES, 6C1, Sch 160 / 600#, ANSI B 36.11, ASTM A333 GR.7, ONE END THRD -MNPT SEAMLESS- LG=100mm, 3/4"	8	Nos	322.00	2,576.00
154	**Supply of following Valves as Per attached PTS,GTS,Data Sheet,QAP,PMS & MTO**				

155	1",BALL VALVE - FULL BORE (RF) (ABOVE GROUND),6C1	6	Nos	22,807.00	1,36,842.00
156	3/4", CHECK VALVE (RF) (AG), 6C1	2	Nos	10,450.00	20,900.00
157	**3/4",NEEDLE VALVE, 6C1**	5	Nos	20,350.00	1,01,750.00
158	Note (Applicable for all items of SOR item No 128 to 157): 1. Before procurement of any of the above materials Contractor will take prior approval from GAIL / PMC. 2. Payment will be made for actual quantity used.				
159	**Sub-Total Section B**				**44,30,589.00**
160	**SECTION-C [CIVIL / STRUCTURAL & ARCHITECTURAL]**				
161	**CIVIL , STRUCTURAL & ARCHITECTURAL**				
162	**Earthwork excavation in soil**				
163	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	2900	cum	256.00	7,42,400.00
164	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth beyond 1.5m and upto and inclusive of 3.0m including Removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	70	cum	302.00	21,140.00
165	**Earthwork excavation in soft rock**				
166	Earth work in EXCAVATION below ground level for all kinds of works in SOFT ROCK and HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as irected including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	255	cum	925.00	2,35,875.00
167	**Backfilling after execution of work**				
168	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps within a LEAD OF 100M,including re-excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/ mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	1150	cum	113.00	1,29,950.00
169	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps beyond a LEAD OF 100M AND UPTO & INCLUSIVE OF 500M including re- excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	490	cum	141.00	69,090.00
170	**Transporting & Disposing the SURPLUS EARTH AND DEBRIS**				

171	Transporting and disposing the SURPLUS EARTH AND DEBRIS including shrubs and vegetations from construction areas to areas ANYWHERE OUTSIDE THE PLANT BOUNDARY, including re-excavating the deposited soil excavated earlier, loading, transportation, unloading, laying at all depths and heights, stacking,levelling and dressing both the area (viz. from where the earth is transported and where it is deposited) to required levels and slopes complete with all lifts as directed. For carting on the basis of truck measurements (volume of truck reduced by 30% for voids). DISPOSAL AREAS OUTSIDE PLANT BOUNDARY TO BE ARRANGED BY THE CONTRACTOR. Royalty as applicable for disposal outside plant limits to be borne by the Contractor	1310	cum	233.00	3,05,230.00
172	**EARTH WORK FILLING BY EXCAVATION**				
173	EARTHWORK IN FILLING by excavating the earth from BORROW AREAS arranged by CONTRACTOR for all leads, transporting the earth from borrow area including cleaning & stripping the earth at borrow areas, breaking clods, loading, unloading and laying at all depths and heights in layers of thickness not exceeding 15 cms., watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% of the maximum laboratory dry density, ressing, trimming, levelling the top surface etc. in foundations, plinths, trenches etc. all complete.	9555	cum	596.00	56,94,780.00
174	**PLAIN & REINFORCED CEMENT CONCRETE: (REFER SPECIFICATION NO. (Z/02/0004)**				
175	**PLAIN CEMENT CONCRETE - PCC**				
176	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:4:8 (1 cement : 4 coarse sand (Zone-III) : 8 graded stone aggregate 40 mm nominal size)	160	cum	5,529.00	8,84,640.00
177	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:3:6 (1 cement : 3 coarse sand (Zone-III) : 6 graded stone aggregate 40 mm nominal size)	22	cum	5,850.00	1,28,700.00
178	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:2:4 (1 cement : 2 coarse sand (Zone-III) : 4 graded stone aggregate 20 mm nominal size)	150	cum	6,483.00	9,72,450.00
179	Providing and laying PLAIN CEMENT CONCRETE for all depths below and upto plinth level in foundations, drains, fillings, non-suspended floors, pavements & ramps or any other works etc. including shuttering, tamping, ramming, vibrating, curing, etc. all as specified in any shape, position, thickness and finishing the top surface rough or smooth as specified and directed all complete for concrete grade M20 with 20mm and down size graded crushed stone aggregates/Gravels. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR	26	cum	6,825.00	1,77,450.00
180	**RCC WORKS**				
181	**SUBSTRUCTURE**				
182	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUBSTRUCTURE INCLUDING CENTERING & SHUTTERING) e.g. foundations, raft, beams, pile caps, Retaining walls, counterforts, buttresses, pedestals, pipe sleepers, columns, suspended floors, staircases, landings, steps, brackets etc., including equipment/ machine foundations & pedestals viz. compressors, generators, etc. (including single pour concreting as specified on the drawing), applying cement wash on concrete surface (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering, etc., wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT)for all depths below and upto plinth level in any shape, position and thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	1220	cum	7,539.00	91,97,580.00
183	**SUPER STRUCTURE- EXCLUDING CONTROL ROOM BUILDING, GUARD ROOM & BOUNDARY WALL**				
184	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUPER STRUCTURE INCLUDING CENTERING & SHUTTERING in suspended floors, slabs, beams, columns, walls including counterforts, staircases, landings, steps, facias, fins, mouldings, gutters, shelves, window sills, canopies, lintels, girders, ducts, brackets, chajjas with drip moulds, pedestals, posts, struts, equipment/ machine foundations, ramps etc. (including single pour concreting as specified on the drawing), providing cement wash (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT) FOR ALL HEIGHTS UPTO & INCLUSIVE OF 20 m ABOVE PLINTH LEVEL in any shape, position, thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	70	cum	8,962.00	6,27,340.00
185	**CONTROL ROOM BUILDING (SUPERSTRUCTURE)**				
186	Construction of Control Room Building as per drawings and specification. Building work for all Superstructure works INCLUDING CENTERING & SHUTTERING , Reinforcement , masonry work, partition wall, Plastering & pointing, flooring, Floor finishes, Door & windows, rolling shutter, false ceiling, all finishes, painting, roof treatment complete in all respect etc.)	215	m2	23,378.00	50,26,270.00

187	**GUARD ROOM (SUPERSTRUCTURE)**				
188	Guard Room as per drawings and specification. Building work for all superstructure works including (Reinforcement, masonry work Plastering & pointing, flooring, Floor finishes, Door & windows, painting, roof treatment, all finishes, water supply and sanitary work complete in all respect etc.)	17	m2	22,853.00	3,88,501.00
189	**HYD Bars / MS Bars**				
190	Supplying and placing in position HIGH YIELD STRENGTH DEFORMED STEEL BARS REINFORCEMENT of Grade Fe500D TMT conforming to IS:1786, for RCC work (excluding control room building & Guard room & boundary wall superstructure) including transporting the Steel, straightening, cleaning, decoiling, cutting, bending to required shapes and lengths as per details, binding with 18 SWG black soft annealed binding wire at every intersection, supplying and placing with proper cover blocks, supports, chairs, overlaps, welding, spacers, fanhooks etc. for all heights and depths etc. all complete as directed. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE	136	MT	78,606.00	1,06,90,416.00
191	**BOUNDARY WALL (SUPERSTRUCTURE)**				
192	compound wall (Superstructure)with RCC columns, beam, coping and Brick masonry (3.0m high) with an additional 0.6m high barbed wire & concertina coil (dia. 600mm) overhead on 'Y' shape structural steel frame. (SUPERSTRUCTURE) works included (masonry work, Plastering ,painting, CENTERING & SHUTTERING complete in all respect etc.)with gate and supplying, fixing and tensioning in position 2.5mm(12 gauge), 2 ply, 4 points, GI Barbed wire designation A-1 conforming to IS:278 in horizontal rows and cross diagonals for compound wall "Y" shaped overhang etc. with necessary GI staples, clips and pins, GI straining bolts and binding wire with all labour and materials etc. complete as per drawings, specifications and directions of Engineer-in-Charge.(The barbed wire shall be measured in linear length of the barbed wire actually fixed) Supplying, fabricating and fixing in position structural steel line posts, straining posts, struts for 'Y' shaped overhang etc. conforming to IS:2062 over brick/stone Masonry/ RCC compound walls/ columns, cutting to required size as per drawings and specifications, welding where necessary, embedding in position, holding to correct level and line, any auxiliary structure for dummy supports, drilling holes and painting as per painting specification attached with tender, cutting brick/rubble/concrete surfaces if necessary, grouting with M20 grade concrete including cost of grout with all labour and material etc. complete as per drawings, specifications and directions of Engineer-in-Charge.(All materials including cement shall be supplied by contractor).	285	RM	13,000.00	37,05,000.00
193	**STRUCTURAL STEEL WORKS (REFER TE SPECIFICATION)**				
194	Supplying, fabricating and erecting of structural steel and applying COATING (Post-erection/ Field) of approved quality and shade as per TE Specification or Job Specifications, wherever applicable) over the coat of shop primer already applied, including storage, surface preparation, degreasing, cleaning, drying, providing necessary arrangement for access, testing etc. including touching up of shop for steel structures (Including Wicket Gate, Main Gate and emergency gate, excluding ladders, spiral stairways & hand rails) at all location & levels, all complete as specified, for UNIT (INLAND) areas considering environment classification as INDUSTRIAL. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE. (Unit rate based on Structural steel weight)	19.5	MT	1,32,000.00	25,74,000.00
195	MISCELLANEOUS STEEL WORKS (REFER TE - SPECIFICATIONS)				
196	**MS Chequered Plates**				
197	Supplying, fabricating and erecting in position at all levels and locations bolted, screwed and/or welded M.S. CHEQUERED PLATES of any thickness in walkways, platforms, stairtreads or any other place as directed, etc. cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing, welding, preparation and submission of fabrication drawings and preparing the surfaces for painting and applying shop primer as per TE Specification after fabrication and return of unused/ scrap/ unserviceable chequered plates to Owner's store and material reconciliation etc. all complete as specified and directed	1.5	MT	92,728.00	1,39,092.00
198	**Anchor Bolts**				
199	Supplying, fabricating, fixing and keeping in position at all levels and locations THREADED ANCHOR BOLTS of all diameters and nomenclature including nuts, washers, anchor plates, pipe sleeves etc. in foundations, columns, pedestals, slabs, beams, walls etc. or any other place as directed including handling & transporting, straightening if required, turning from relevant size M.S. rounds to required diameter, threading, welding, providing necessary templates and auxiliary dummy structures, if any, necessary tying and welding with reinforcement, adjustment of shuttering & reinforcement/any other fixture, greasing exposed metal surfaces, covering bolts and packing the sleeves with jute cloth etc. all complete as specified and directed.(SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1	MT	1,12,713.00	1,12,713.00
200	**MS Metal Inserts**				

201	Supplying, transporting, storing, fabricating and fixing in position M.S. METAL INSERT (with lugs) of any shape made out of flats, plates, rolled sections, pipes etc. providing necessary templates, staging, cutting,straightening, if required, bolting, welding as required and embedding in position on both Plain and Reinforced Cement concrete members inclusive of adjusting shuttering & reinforcement/ any other fixture, welding where necessary, tying and holding to correct level, line and position, any auxiliary dummy structures to support the heavy inserts, painting exposed surfaces with a coat of primer as per TE Specification all complete for all depths and heights as specified and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	0.55	MT	1,05,597.00	58,078.35
202	**MS Grating**				
203	Supplying, fabricating and erecting in position at all levels and locations ELECTROFORGED GALVANISED GRATING (purchased from approved manufacturer by the Contractor) conforming to TE STANDARD (in walkways, platforms, stair treads etc.) including cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing with manufacturer's supplied galvanised clamps, preparation and submission of fabrication drawings, all complete as specified and directed (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.7	MT	1,45,139.00	2,46,736.30
204	**Hand Railing 1000mm**				
205	Supplying, fabricating and fixing in position at all locations 1000mm high INCLINED HAND RAILING (for staircases) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade M.S. Tubes conforming to IS:1239 including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE SPEC. preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	RM	4,035.00	40,350.00
206	Supplying, fabricating and fixing in position at all locations 1000mm high HORIZONTAL HAND RAILING (for platforms, walkways, etc. or any other location as directed) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade MS Tubes conforming to IS:1239 and 100x5 MS Toe Plate confirming to IS:2062 (Grade A/B), including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE standard drawing & specification, preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	4,013.00	40,130.00
207	**CHAIN LINK FENCING**				
208	Supplying, fabricating and fixing G.I. chain link fencing with 3.5mm dia. wire, 50x50mm diamond mesh chain link fence fabric conforming to IS:2721 fixed to steel/RCC posts/struts above ground level, including supply of chain link fencing fabric in 1.9 metre wide rolls, stretcher bars, staples, etc. required for fixing the fencing, fixing of chain link fencing between straining posts, fixing of bottom of fencing in cement concrete 1:2:4 blocks and painting with synthetic enamel etc. , including supply and fixing line wires, complete as per drawings, specifications and directions of Engineer -in-Charge (All materials shall be supplied by Contractor). (The measurement of chain link fencing shall be on linear basis for 1.9 m wide fencing fabric)	10	M	5,593.00	55,930.00
209	**ROADS & FLEXIBLE PAVEMENT (UPTO WBM LAYER)**				
210	Preparation and consolidation of sub-grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth outside the property boundary in the un-disputed areas as directed by Engineer-In-Charge.	2400	M2	158.00	3,79,200.00
211	Supplying and laying of stone aggregate of 63mm down to 45mm size for WBM layer Base Course, tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 75mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding material of plasticity index upto 6%, including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts etc. complete as per drawings, specifications and directions of Engineer-in-Charge	7200	M2	398.00	28,65,600.00
212	**CONCRETE PAVEMENTS**				
213	Construction of dry lean cement concrete (DLC) sub base over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in- charge.	240	cum	3,707.00	8,89,680.00
214	Providing and laying Reinforced Cement Concrete with 20mm and down size graded crushed stone aggregates in flooring, pavements etc. including leaving pockets, if necessary, making recess/drains, laying in alternate panels, etc. for all depths including shuttering, tamping, curing, providing dowel bars with sleeves/tie bars etc where ever required at site. as specified in any shape, thickness, position and finishing the top surface smooth etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For RCC of M-30 grade concrete (all materials including cement but excluding cost of providing & fixing reinforcement and joint sealing shall be supplied by the contractor).	600	cum	8,358.00	50,14,800.00

215	Providing 20mm wide Expansion Joints in pavement slabs as per general technical specification including cleaning the joints of all loose material, filling with 20mm thick impregnated fibre boards for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved Joint Sealing Compound as per IS:1834 Type-B etc. all complete as per drawings, specifications and directions of Engineer-in-Charge	1100	M	16.00	17,600.00
216	Sealing joint around pedestal and column etc. 20mm wide x 150 mm deep including filling with 20mm thick impregnated fire board for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved joint sealing compound as per IS:1834 Type-B.	300	M	92.00	27,600.00
217	**RCC PIPE CULVERTS & ELECTRICAL ROAD CROSSINGS ETC. (as per drawing & TE specification)**				
218	Supplying and laying in position RCC pipes with collars conforming to IS:458 for pipe culverts, cable crossings etc. including cutting the pipe if necessary, lowering, laying in position to proper levels, slopes etc. caulking the joints with spun yarn soaked in neat cement slurry and finishing with cement mortar 1:2 (1 cement : 2 sand) curing etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For following Class and Internal PIPE DIA (MM). (Dia (internal) - 500 mm, Pipe Class - NP3)	20	M	6,027.00	1,20,540.00
219	**U/G AND A/G G.I. PIPELINE SYSTEM - WATER SERVICES tender specification**				
220	Supplying and laying mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ ASTM A105 (Galvanized) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, earthwork in excavation for trenches, valve pits, etc. in all types of soil excluding soft and hard rock including laying of pipes in trenches, joining the pipes and fittings with threaded connections, hydrostatic testing of the piping, backfilling the trenches with selected/approved earth fill material, cutting of roads wherever required, making good the road surface after laying, disposal of surplus earth within a lead of 500 m, etc. including supply of necessary fittings etc. complete as per specifications, drawings and directions of Engineer-in-Charge. For following Nom.Size in mm. (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	1,073.00	10,730.00
221	Supplying and laying above ground mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ASTM A 105 (GALVANISED) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, including laying of pipes on sleeper, walls, including erecting piping on columns, etc. for pump station, overhead tanks, etc. including joining the pipes and fittings with threaded connections, hydrostatic testing of the piping including supply of necessary fittings etc & pipe supports. complete as per specifications, drawings and instructions of Cement Supplied by contractor (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	945.00	9,450.00
222	**MISC. CIVIL AND STRUCTURAL WORKS FOR U/G PIPING AND OTHER CIVIL WORKS**				
223	Providing and laying brick masonry with locally available bricks of specified class (Brick of class lower than specified shall not be accepted) in cement mortar 1:4 (1 cement : 4 Coarse sand) in one or more brick thickness and in any shape in foundation and plinth for valve pits, drains, circular/square manholes, wing walls, etc. including providing recesses, openings, etc. including curing, finishing the joints flush below ground level and raking out joints in plinth with all labour and material, etc. complete as per drawings, specifications and direction of Engineering-Charge. For following Brick Class. All materials including cement supplied by the Contractor and. (Brick Class - 5)	418	cum	6,576.00	27,48,768.00
224	Providing 13mm thick average cement plaster in cement mortar 1:3 (1 cement: 3 sand) on brick walls/stone masonry/pitching or on concrete surfaces for manholes, valves pits, culverts, wing walls, etc. including cleaning and preparation of the surface, scaffolding, curing etc. for all depths and heights complete as per drawings specifications and direction of Engineer-in-Charge. All materials including cement supplied by the Contractor.	775	M2	400.00	3,10,000.00
225	**UNDERGROUND SEWER SYSTEM - RCC PIPES**				
226	Supplying and laying underground R.C.C. pipes sewers with socket and spigot ends conforming to IS:458 of approved make, to proper grade and alignment, including earthwork in excavation in all types of soil except soft and hard rock for pipe trenches, etc. including dewatering, shoring and shuttering if necessary, dressing of sides, leveling, grading and ramming of bottoms, cutting the R.C.C. pipes to required lengths, lowering the pipes, jointing, including connecting the pipes to manholes and grouting the pipe body with manhole wall using cement mortar 1:2 (1 cement : 2 sand), testing, draining of water and cleaning of pipe after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness , watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, including cutting of roads wherever required and making good the same, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit etc. complete for all depths as per drawings, specifications and instructions of Engineer-in-Charge.(All material shall be supplied by contractor) For following Pipe size (mm) and Class(The following pipe sizes are all internal diameter of the pipes)				
227	(Dia (Internal) - 100 mm, Piping Material Class - NP2)	15	M	2,034.00	30,510.00

228	(Dia (Internal) - 150 mm, Piping Material Class - NP1)	15	M	2,259.00	33,885.00
229	(Dia (Internal) - 450 mm, Piping Material Class - NP2)	70	M	2,219.00	1,55,330.00
230	**UNDERGROUND SEWER SYSTEM-HDPE PIPES**				
231	UNDERGROUND SEWER SYSTEM-HDPE PIPES :- Supplying and laying HDPE pipes conforming to IS:4984 of approved make to proper grade and alignment, including earthwork in excavation for trenches etc. in all types of soil except soft and hard rock including dewatering till completion of subsequent works, shoring and strutting, if necessary, dressing the sides, leveling, grading and ramming the bottom, jointing the pipes using hot plates as per manufacturer's recommendation, lowering, providing and laying 1:5:10 (1 cement : 5 sand : 10 aggregate) plain cement concrete of minimum 100mm thickness on bottom and side of pipe as directed, connecting the pipes to manholes and grouting the pipes to manhole/valve chamber walls, including supplying and fixing the specials and fittings, such as bends, reducers, tees, elbows, caps etc. conforming to IS:8008 or fabricated from pipes as per specification, supplying and fixing of flanges, fixing of online valves, including fixing of bolts, nuts and gaskets etc. as per specifications, testing, draining of water and cleaning of pipes after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness, watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit, cutting of road wherever required, making good the same etc. complete for all depths as per drawings, specification and instruction of Engineer-in- Charge. For the following nominal diameter (mm) Pressure Rating(Kg/Cm2). (Dia (Internal) - 80 mm, Pressure Rating - 2.5 Kg/sqcm)	50	RM	888.00	44,400.00
232	**PLUMBING AND BUILDING DRAINAGE**				
233	Supplying and fixing approved quality Cast Iron soil/waste pipe conforming to IS:1729 below ground with necessary specials, bends such as Y-junction, T- junction (both single and double) including plugs, shoes, cowls, jointing with lead caulked joints and testing, cutting in floors, earth work in excavation, encasing the pipe in 50mm THK, PCC M20, backfilling and removal of surplus earth upto a lead of 50M etc. complete as per drawings, specifications and directions of Engineer-in-Complete				
234	100mm dia (All materials including cement supplied by contractor)	10	RM	1,419.00	14,190.00
235	80mm dia (All materials including cement supplied by contractor)	10	RM	805.00	8,050.00
236	Supplying and fixing gun metal globe valve conforming to IS:778, complete as per specifications and directions of Engineer-in-Charge.				
237	Dia - 50 mm	2	Nos	5,083.00	10,166.00
238	Constructing of brick masonry valve chamber in 1:4 Cement mortar(1 cement: 4 sand) with CI frame & cover fixed on M-20 grade cement concrete , necessary excavation, M-20 grade foundation concrete, 13mm thick 1:3 cement plaster on inside & all exposed surfaces, backfilling, removal of surplus earth for all leads within the complex limit etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge. For following Valve size and Brick Class (All materials including Cement supplied by contractor)				
239	Dia - 50 mm, Brick Class - 5)	2	EACH	59,230.00	1,18,460.00
240	Providing and fixing approved stone ware 100mmx100mm dia. gully trap as per tender specification, including grating with CI frame and cover 300mmx300mm including brick masonry (brick class shall be as mentioned below) chamber in 1:4 cement mortar(1 cement: 4 sand) on M-20 grade cement concrete foundation, plastered inside and outside surfaces with 1:3 cement mortar (1 cement: 3 sand) with 13mm average thickness including providing and fixing light duty CI frame and cover, painting CI frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat, earth work in excavation, backfilling, removal of surplus earth, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry etc. all complete as per drawings, specifications and directions of Engineer-in-Charge				
241	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	23,200.00	46,400.00

242	Construction as per(Design basis & general technical specification) of brick masonry (brick class shall be as mentioned below) inspection chambers/manholes of 750mmx750mm internal size 1000mm deep(Max.) in cement mortar 1:4 (1 cement: 4 sand) with CI frame and cover 500mm clear dia, (circular Medium duty of grade MD-10) conforming to IS:1726 fixed on RCC slab of M-30 grade, necessary excavation, supplying, fixing 4 Nos. 16mm dia M.S. rungs, M-20 grade foundation concrete 1:3 cement mortar(1 cement: 3 sand) plastering of 13mm average thickness for inside & 16mm avg. thickness for outside exposed surfaces, backfilling, disposal of surplus earth upto a lead of 100M, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry, painting the C.I.frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat etc. all complete as per drawings, specifications and directions of Engineer-in-Charge.				
243	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	40,209.00	80,418.00
244	Construction, supplying, installation, testing and commissioning of septic tank as per standards and IS:2470 Part-I , with all necessary accessories like inlet, outlet vent pipes, manhole covers, rungs etc. including earthwork in excavation in all type of soil except soft and hard rock, backfilling and disposal of surplus earth for all leads etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge				
245	All material including cement supplied by contractor for (Users - 10 NOS)	1	Nos	1,00,018.00	1,00,018.00
246	**MISCELLANEOUS ITEMS**				
247	Supplying and fixing in position entrance gate in complex boundary wall fencing manufactured out of steel frame work and square MS bars of 20 mm at 100 c/c and horizontal name plate band at lock rail level suitably hinged with box type steel post embedded in cement concrete i.e. providing the tension bar for smooth operation and locking arrangement etc. complete as per tender specification, including painting with two coats of anti-corrosive paint and two coats of approved aluminium/synthetic enamel paint etc. complete as per drawings, specifications and directions of Engineer-in-Charge.				
248	4.0M clear opening width of gate in two panels.	3	Nos	1,22,847.00	3,68,541.00
249	Supplying & Laying interlocking Paver Blocks for roads, footpaths and any other place etc. including providing 50 mm thick sand filling below Paver Blocks including compaction of sand layer, filling the joints by dry sand, providing precast kerb stone of PCC M-20 at edges, including preparation of compacted sub-grade etc. all complete as per drawing, standard and directions of Engineer-in-Charge. (All material including cement supplied by contractor, paver blocks shall confirm to IS: 15658. cloour and shape of paver block shall be as per owner requirements for following thickness of paver blocks				
250	(Thickness - 60 mm)	385	M2	1,233.00	4,74,705.00
251	Supply and installation on terrace, high density polyethylene drinking water circular tank as per IS:12701 and ISI marked including supply and installation of all fittings, cover with suitable locking arrangement, float valve, making necessary holes for inlet, outlet and overflow connection and vent pipe etc. and the base supports for tank including supply of all necessary material all complete as per specifications and directions of Engineer-in-charge. (Sintex or equivalent having valid ISI license) for following capacities.				
252	capacity - 500 litre	2	Nos	8,232.00	16,464.00
253	Supplying, installation, testing and commissioning of Upflow Anaerobic Filter with bleaching tank as per TE Std. Drawing with all necessary accessories like, Upstream inlet CI piping from septic tank, Downstream outlet RCC NP2 class piping up to surface storm water drains, CI pipes for filter chamber, CI valve, RCC pre-cast pit covers, steps, perforated pre-cast slabs etc., inlet chamber, Filter chamber, deluding chamber including earthwork in excavation in all type of soil including soft rock, backfilling with murrum or approved soil arranged by the contractor, disposal of surplus earth etc. complete as per drawings, specification and direction of Engineering-Charge (All materials including cement shall be supplied by the contractor, Brick Class lower than 5.0 shall not be used). - Upto 10 Nos. user	1	Nos	93,700.00	93,700.00
254	**DEMOLISHING AND DISMANTLING**				
255	**Brickwork**				
256	Demolishing BRICKWORK (taking all necessary safety precautions) for all depths below plinth level including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	2,099.00	20,990.00
257	Demolishing BRICKWORK (taking all necessary safety precautions) for all heights above plinth level including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	2,053.00	20,530.00

258	**RCC**				
259	Demolishing RCC WORK (taking all necessary safety precautions) for all depths below plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	2,783.00	27,830.00
260	Demolishing RCC WORK (taking all necessary safety precautions) for all heights above plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	2,782.00	27,820.00
261	**PCC**				
262	Demolishing PLAIN CEMENT CONCRETE work (taking all necessary safety precautions) for all depths below plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc. disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation and backfilling shall be paid separately under relevant items)	10	cum	2,099.00	20,990.00
263	**MISCELLANEOUS ITEMS (REFER TE SPECIFICATION)**				
264	Sand Filling				
265	Supplying and filling approved SAND of specified quality under floors, in foundations, plinths, tank foundations etc. for all depths and heights including cost of sand,royalties,transportation to site for all leads and lifts, including loading, unloading, spreading in layers of loose thickness not exceeding 150 mm,watering,ramming,compacting with mechanical compactors and/or other equipment to the specified levels to achieve 85% relative density as per IS:2720 Part XIV,including preparation of subgrade to the required slope, providing testing apparatus and testing the degree of consolidation all complete as per drawings, specifications and direction of Engineer-in-charge. The rates shall be inclusive of the cost of all labour,material,equipments etc. all complete .	120	cum	1,405.00	1,68,600.00
266	**SAND GRAVEL MIX**				
267	Supplying and filling sand gravel mix (1:1) with approved aggregate below road, RCC pavement, manholes, pits, foundations, bedding of UG piping etc. in layers of 150 mm loose thickness (maximum) including watering, ramming, rolling, compacting to achieve 85% relative density as per IS 2720 Part-XIV, quarrying, royalties, transportation, handling, etc. all complete as per drawings, specifications and directions of Engineer-in- Charge. (The rate shall be inclusive of the cost of all labour, material, equipment etc. all complete)	122	cum	2,013.00	2,45,586.00
268	**GROUTING WITH NON-SHRINKABLE COMPOUND**				
269	Providing and laying manually or by pumping at all positions a ready mix non-shrink cementitious grout of compressive strength specified below for specified works e.g. pipe support, base grouting of rotating equipment and other installation complete in all respects as per scope of work, detailed construction drawings , technical specifications and directions of the Engineer-In-Charge.				
270	Having compressive strength of 30 N/mm2 , Per bag of 25 Kg	100	Bags	3,241.00	3,24,100.00
271	Having compressive strength 45 N/mm2 , Per bag of 25 Kg	20	Bags	3,812.00	76,240.00
272	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains, SS trench of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.	10	SQM	3,043.00	30,430.00
273	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, leve and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	17	M3	7,999.00	1,35,983.00
274	Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M-25, of size 1000x450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos. cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of the Engineer-In-Charge.	630	EACH	1,156.00	7,28,280.00
275	**Borewell and recharge well**				

276	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job all complete as per drawing, direction of Engineer -in-charge, in all types of soil :	130	M	571.00	74,230.00
277	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge.	130	M	660.00	85,800.00
278	Providing and fixing Bail plug/ Bottom plug of required diameter to the bottom of pipe assembly of tubewell as per IS:2800 (Part-I). :150mm dia	3	EACH	660.00	1,980.00
279	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	1,430.00	7,150.00
280	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	1,430.00	7,150.00
281	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	1,430.00	7,150.00
282	Gravel packing in tubewell construction in accordance with IS:4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of the Engineer-In-Charge.	3	M3	1,430.00	4,290.00
283	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS:4270, of reputed & approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size dia having minimum wall thickness 5.00 mm	5	M	1,604.00	8,020.00
284	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	60	M	660.00	39,600.00
285	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/ 3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS:8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	25	M	1,706.00	42,650.00
286	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of 150 mm diameter	1	Nos	201.00	201.00
287	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS:2800 (Part-I), including necessary bolts & nuts of required size complete 150 mm diameter.	1	Nos	1,860.00	1,860.00
288	Supply, Installation and commissioning of 1.5HP Borwell Submersible Pump	1	EACH	1,14,110.00	1,14,110.00
289	Supply and Installation of 3Cx10Sqmm Copper Flat Cable	200	M	410.00	82,000.00
290	**LANDSCAPING**				
291	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment).	810	M3	633.00	5,12,730.00
292	Fine dressing of the ground.	2700	M2	4.50	12,150.00
293	Providing & laying Selection no. 1 grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden and than rolling the surface with light roller make the surface smoothen and light watering the same maintenance for 30 days or more till the grass establish properly,as per direction of officer in charge	2700	M2	114.00	3,07,800.00

294	Conducting topographical ground/land survey in the specified area as shown in the tender drawings by conventional/GPS or any other standard method, covering details of physical features like Rivers, Nallahs, Lakes, Ponds, wells, pits, Forest, Trees, Roads, culverts, transmission lines, telegraph/ telephone and electric poles, underground or any other services, cross drainage works including cross sectional details of nallah etc. including establishing high flood level with source of information, identification of any monument, historical structure, wild life sanctuary in the vicinity, storm water disposal point with levels, cross-section details of nallah, recording spot levels, top level of nearest state highway or National Highway, including providing in tabulation girth wise no. of trees etc as specified, plotting and developing topographical contour maps, showing true north including establishing survey reference stations, key plan etc. including all equipment's, instruments, personnel's, clearing of bushes as per requirement for intervisibility to carry out survey work etc. , complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of drawings/map and supply of electronic files. Note: Survey work shall be carried out by survey agency approved by Contractor and sample spot witness of levels cordinates by PMC, and shall be submitted to PMC/Owner for review.Survey drawing will be provided in A0 size with clear visibility of all the spots/levels/ contoure and Bench marks. Permanaet bench mark will be stabished at site in a 450x450 mm size 600mm high bick masonry piller.	6950	M2	50.00	3,47,500.00
295	**GEO TECHNICAL INVESTIGATION (Z/02/0022)**				
296	Conducting soil investigation with boring including all field tests and laboratory tests, mobilization and demobilization of equipments & personnel etc. for soil investigation for each borehole location. complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of Reports & recommendations and supply of electronic files.	5	Nos	71,500.00	3,57,500.00
297	**ANTI-TERMITE TREATMENT**				
298	Supplying chemical emulsion in sealed containers including delivery as specified in the Technical Specifications.				
299	**Chlorpyriphos/ Lindane emulsifiable concentrate of 20%**	200	LITRE	192.00	38,400.00
300	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
301	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc. as per Techinal specifications and direction of engineering in charge: With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	80	METRE	27.00	2,160.00
302	Treatment of soil under floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the floor:				
303	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	250	SQM	221.00	55,250.00
304	Supply and installation 60mm dia GI pipe for column support of gate	15	M	1,600.00	24,000.00
305	Supply and installation 100mm dia MS pipe	15	M	1,840.00	27,600.00
306	Supply and installation 50mm dia MS pipe	15	M	875.00	13,125.00
307	Supply and installation of U-PVC pipes (working pressure 4 kg / cm²) Single socketed pipe 75 mm dia for weep holes	300	M	281.00	84,300.00
308	**Sub-Total Section C**				**6,03,39,131.65**
309	**SECTION-D [CATHODIC PROTECTION WORKS]**				
310	**Cathodic Protection system**				
311	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning & Monitoring of the temporary cathodic protection [TCP] system using galvanic anodes to protect the external surface of the pipeline against soil-side corrosion for minimum 2 year or till commissioning of permanent CP system whichever is later . All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard drawings and vendor list as attached with this tender and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	16,80,000.00	16,80,000.00

312	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning of permanent cathodic protection system for 40 years. The scope of work also includes post commssoning surveys and repair of coating/ rectification of cathodic protection system based on the post commissioning surveys. In additon to the same, AC Interference study on the pipelines to be performed and mitigation measures takes to the satisfaction of Owner/ CONSULTANT. All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard and vendor list attached and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	75,00,000.00	75,00,000.00
313	**Sub-Total Section D**				**91,80,000.00**
314	**SECTION-E [ELECTRICAL WORKS]**				
315	**ELECTRICAL**				
316	**SWITCH BOARDS / UPS SYSTEM/ PANEL**				
317	Supply , Installation, testing and commissioning of LT Switch-boards, AC UPS system with UPS Distribution board & Ni-Cd Battery banks , distribution boards, cubicles with electrical equipment, misc. electrical panels etc., including transportation from store/yard to site at the place of installation, unpacking, assembly, including mounting and wiring of loose parts supplied by equipment vendor, interconnection of shipping sections and requisite inter-panel wiring between shipping sections, including supply of all wiring materials, installation on foundations or fixing to wall or steel structures, aligning, levelling, grouting, including all labour and materials, as per approved drawings, specifications of this tender and directions of Engineer-in-Charge.				
318	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted MEDB	2	Nos	6,02,693.00	12,05,386.00
319	Supply , erection , termination , earthing and commissioning of wall mounted OLDB as per single line diagram of DT stations	1	Nos	1,13,747.00	1,13,747.00
320	Supply , erection , termination , earthing and commissioning of wall mounted ILDB as per Single line diagram of DT stations	1	Nos	1,07,042.00	1,07,042.00
321	Supply , erection , termination, earthing and commissioning of wall mounted SSDB as per Single line diagram of DT stations	1	Nos	1,00,299.00	1,00,299.00
322	Supply , erection , termination , earthing and commissioning of wall mounted AC DB as per Single line diagram of DT stations	1	Nos	94,252.00	94,252.00
323	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 6 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of DT stations	1	SET	14,99,830.00	14,99,830.00
324	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for DT stations.	1	SET	15,40,000.00	15,40,000.00
325	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 1 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of RT stations	1	SET	2,75,000.00	2,75,000.00
326	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for RT stations.	1	SET	12,10,000.00	12,10,000.00
327	Supply , erection , and commissioning of 415 V SFU as per Single line diagram of DT stations including liasioning with SEB as per Tender specification and direction of Engineer- In charge.	1	Nos	63,742.00	63,742.00
328	**POWER AND CONTROL CABLE**				
329	Supply , laying , termination , erection and testing of 1.1 KV Power and control FRLS PVC Outersheath, XLPE insulated, armored Cables . Outdoor cable will be laid in buried cable trench and in Indoor cable will be laid in Cable trench by provision of Cable tray and supports inside the trench as per PTS - Electrical package P.017110 G 11077 E002				
330	3.5C x 95 sqmm AL FRLS XLPE	300	M	600.00	1,80,000.00
331	3.5C x 70 sqmm AL FRLS XLPE	100	M	495.00	49,500.00
332	3.5C x 50 sqmm AL FRLS XLPE	50	M	393.00	19,650.00
333	3.5C x 25 sqmm AL FRLS XLPE	100	M	**293.70**	29,370.00

334	4C x 16 sqmm CU FRLS XLPE	100	M	959.20	95,920.00
335	3C x 2.5 sqmm CU FRLS XLPE	170	M	228.80	38,896.00
336	3C x 6 sqmm CU FRLS XLPE	250	M	287.10	71,775.00
337	4C x 6 sqmm CU FRLS XLPE	350	M	357.50	1,25,125.00
338	2C x 6 sq.mm CU FRLS XLPE	100	M	262.90	26,290.00
339	2.5 sqmm Cu. Wire	1800	M	42.90	77,220.00
340	6 sqmm Cu. Wire	600	M	78.10	46,860.00
341	**Earthing & Lightning**				
342	Supply , Installation , testing and comissioning of GI Earth electrodes & Cu plate type earth pit complete with earth pit as per IS 3043, PTS-Electrical package and all necessary material including exacavation of earth pit , filling with charcol and salt , back filling, brick work , connections including all labour and materials as approved drawing and specification of this tender and direction of Engineer-In charge.				
343	**GI Earth Electrodes**				
344	65mm dia x 3000 mm L GI pipe electrode type Earth pit	15	Nos	17,574.70	2,63,620.50
345	**Cu plate Earth Electrode**				
346	600x600x3mm Cu plate type Earth pit	8	Nos	19,916.60	1,59,332.80
347	**Earth strip and wire**				
348	50x 6 mm GI Flat strip	850	M	283.80	2,41,230.00
349	25 x 6 mm Cu Flat strip	50	M	679.80	33,990.00
350	2.5 Sqmm Cu wire	250	M	38.50	9,625.00
351	25 x 6 mm GI Flat strip	200	M	207.90	41,580.00
352	10 Sq.mm earthing cable	250	M	122.10	30,525.00
353	GI Earth Bus 50x 6 Sq.mm with all installation assesories	3	Nos	1,485.00	4,455.00
354	Cu. Earth Bus 50x 6 Sq.mm with all installation assesories (in control room)	4	Nos	2,420.00	9,680.00
355	25x3 mm GI Flat for Lightning as well as down conductors for DT station as per overall earthing layout and GGNG-E-20713-3007	80	M	174.90	13,992.00
356	Other lightning assesories like 20mm dia copper rod, hollosphere ,200x200x6mm ms plate ,anchor/fastner ,test links for DT station as per overall earthing layout and GGNG-E-20713-3007	1	LOT	57,022.90	57,022.90

357	**OUTDOOR Lighting**				
358	Supply , erection , Testing & commissioning of Outdoor area lighting system including with supply of flameproof / weather proof light fixture , pole , junction box and earthing including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender & Overall outdoor lighting layout of DT & RT station and directions of Engineer- In charge.				
359	100W FLP LED Fixture & FLP Junction box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	4	Nos	23,650.00	94,600.00
360	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	2	Nos	1,28,064.20	2,56,128.40
361	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in RT Stations.	7	Nos	1,28,064.20	8,96,449.40
362	1x160W FLOOD LED Fixture with weather proof junction box & 9 mtr high pole with all assesories for open area	9	Nos	37,491.30	3,37,421.70
363	1x70 W Solar type Street LED Fixture with weather proof junction box, VRLA Battery (72 hrs backup time) & 9 mtr high pole for street lighting	6	Nos	1,15,175.50	6,91,053.00
364	1x27 W Post Top Lantran LED Fixture for Gate with weather proof junction box for Gate lamp	2	Nos	10,850.40	21,700.80
365	1x36 W LED industrial fixture suitable to building parapet /wall with all assesories like weather proof junction box/clamp/reducer/	2	Nos	10,322.40	20,644.80
366	**INDOOR Lighting**				
367	Supply, erection, Testing & commissioning of Indoor building area lighting system including with supply of light fixture, point wiring including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender and directions of Engineer- In charge.				
368	2x20 W LED recessed decorative fixture for control room	5	Nos	5,597.90	27,989.50
369	2x20W LED Industrial Fixture for Electrical room	2	Nos	4,692.60	9,385.20
370	1x40W LED Flameproof Fixture for Battery room	1	Nos	21,714.00	21,714.00
371	2x18W LED Industrial Fixture for Varanda/Toilet/ water cooler area/ Guard room	6	Nos	3,867.60	23,205.60
372	1x36W LED Industrial Fixture	4	Nos	3,173.50	12,694.00
373	2x20 W LED recessed decorative fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) control room.	2	Nos	13,750.00	27,500.00
374	2x20W LED Industrial Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Electrical room	2	Nos	11,550.00	23,100.00
375	1x40W LED Flameproof Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Battery room	1	Nos	24,750.00	24,750.00
376	**Switch socket**				
377	Supply and Installation of single/ three phase Switch socket as per Indoor Illumination layout for DT & RT and PTS-Electrical Package and directions of Engineer-In Charge				
378	5/15A surface type switch socket (1 Ph)	7	Nos	1,751.20	12,258.40
379	5A flush type switch socket (1 Ph)	4	Nos	1,387.10	5,548.40

380	16A Switch socket (I Ph)	3	Nos	1,641.20	4,923.60
381	20A Switch socket for AC (1 Ph)	4	Nos	1,650.00	6,600.00
382	Flame proof Junction box for Exhaust fan in Battery room	2	Nos	3,870.90	7,741.80
383	32A Switch socket for welding receptacles (3 Ph)	1	Nos	7,371.10	7,371.10
384	Modular switch board	12	Nos	1,161.60	13,939.20
385	**FANS and Exhaust FAN**				
386	Supply ,Installation and testing of Ceiling Fan and Exhaust fan with louvers including all labours and materials as per Indoor Illumination layout for DT and PTS-Electrical Package and directions of Engineer-In Charge				
387	Ceiling Fan 230V AC 1200 mm sweep	3	Nos	2,576.20	7,728.60
388	450 mm FLP Exhaust Fan for Battery room	2	Nos	22,557.70	45,115.40
389	200 mm Exhaust Fan for Toilet	1	Nos	2,941.40	2,941.40
390	300 mm Exhaust Fan for Electrical room/ CO2 room	3	Nos	4,404.40	13,213.20
391	**Air conditioning unit**				
392	Supply ,Installation and testing of Five star 1.5 Ton Split AC with outdoor compressor unit including all labours and materials as per Typical Indoor Illumination layout for DT and directions of Engineer-In Charge				
393	Split Air condition Five star 1.5 Ton	4	Nos	62,547.10	2,50,188.40
394	**Hardware and other Accessories**				
395	Supply and Installation of Hardware and other accessories including all labours and materials as per Tender specification PTS-Electrical Package P.017110 G 11077 E002 and directions of Engineer-In Charge				
396	Rubber mat	15	M	2,296.80	34,452.00
397	Rubber hand gloves	1	PAIR	2,570.70	2,570.70
398	Warning Marker	1	Nos	1,659.90	1,659.90
399	PVC Conduit with bend ,tee and other required assesories	1	LOT	1,10,498.30	1,10,498.30
400	CAUTION Board & Sock treatment chart	1	Nos	2,912.80	2,912.80
401	Cable route marker as per Standard drawing TE-IN-STD-G-0327	1	LS	62,667.00	62,667.00
402	Fire extingusher and SAND Bucket with Stand	1	SET	41,098.20	41,098.20
403	Ladder type Cable tray - hot dip Galvanized Prefabricated 450 mm wide	55	MTR	1,402.50	77,137.50

404	Perforated type Cable tray hot dip Galvanized Prefabricated 450 mm wide	35	MTR.	1,698.40	59,444.00
405	**Cable Glands**				
406	Cable Glands : Flame proof IIA/IIB double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
407	Cables with upto OD 20 mm & above OD 20 mm as per Single line diagram of DT & RT station	1	LOT	97,276.30	97,276.30
408	Cable Glands : Weather proof double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
409	Cables with upto OD 20 mm to 40 mm as per Single line diagram of DT & RT station	1	LOT	75,028.80	75,028.80
410	**Sub-Total Section E**				**1,12,65,608.60**
411	**SECTION-F [INSTRUMENTATION WORKS]**				
412	**INSTRUMENTATION**				
413	**SUPPLY**				
414	Supply of Pressure Transmitter along with 2 valve manifolds with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	58,666.30	2,93,331.50
415	Supply of Pressure gauge including high range along with 2 valve manifolds with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	18	Nos	13,975.50	2,51,559.00
416	Supply of Pressure gauge including Low Range along with 2 valve manifolds, gauge saver with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	3	Nos	11,687.50	35,062.50
417	Supply of temperature element (RTD) along with flanged thermowell mounted for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	14,153.70	70,768.50
418	Supply of Temperature Transmitter with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	7	Nos	37,537.50	2,62,762.50
419	Supply of skin type temperature element (RTD) for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I003), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	2	Nos	14,824.70	29,649.40

420	Supply of Local control panel with all accessories as per Data sheet (P.017110 G 11087 I011), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, SAT of local control panel,supports/ frame fabrication, earthing and screwing plug for unused entries, painting and integration with RTU. Termination of all Other panel SCADA hard wired signal including RS-485 signals through LCP for RTU/SCADA by Bidder. 1. Digital Barriers 2. Analog Barries 3. Relays 4. three poisition selector switch 5. LED indication lamps 6. Push buttons 7. terminal blocks 8. internal wiring 9. MCBs 10. Door switches 11. cooling Fan 12. LED lights	2	Nos	4,73,366.30	9,46,732.60
421	Supply of Ex-proof junction box with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, iincluding Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.	4	Nos	21,175.00	84,700.00
422	Supply of Corrosion Monitoring system with corrosion coupon, Corrosion probe, transmitter and digital indicator (mounted in LCP) as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
423	Corrosion coupon along with accessories.	2	Nos	69,263.70	1,38,527.40
424	Corrosion probe along with transmitter, digital indicator, barriers and accessories.	2	Nos	4,21,850.00	8,43,700.00
425	Supply of Conventional Type Microprocessor based fire detection system along with smoke detector, heat detector, cabinet, manual call point, Independent 24 Hrs battery backup with 15 min in alarm state, repeater panel and Electrical Operated Siren, exit signs and cables fromsensor ,MCP, siren, hooter to controller as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
426	Controller along with cabinet along with cabling	1	Nos	1,08,900.00	1,08,900.00
427	Multisensor (smoke & heat)	10	Nos	4,510.00	45,100.00
428	WP IP 65 Manual call points	6	Nos	4,070.00	24,420.00
429	Ex Proof and WP IP 65 Manual call point	1	Nos	16,844.30	16,844.30
430	WP Hooter & Flasher	1	Nos	8,525.00	8,525.00
431	Repeater panel	1	Nos	61,086.30	61,086.30
432	Exist sign	6	Nos	11,577.50	69,465.00
433	Electrical siren Exd	1	Nos	35,887.50	35,887.50
434	24 Hrs battery backup	1	Nos	5,857.50	5,857.50

435	Supply of Conventional type gas detection system along with controller, ex proof point gas detectors, beacon hooter, flasher, , cabinet, portable gas detector, calibration kit, alignment kit as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
436	Controller with cabinet	1	Nos	4,15,250.00	4,15,250.00
437	Point gas detectors	12	Nos	1,29,250.00	15,51,000.00
438	Panel Mounted hooter	2	Nos	8,525.00	17,050.00
439	Dual tone Hooter & Beacon Ex"d" with reset push button	2	Nos	21,862.50	43,725.00
440	Portable gas detecotrs	1	Nos	65,450.00	65,450.00
441	Calibration kit	1	Nos	2,33,786.30	2,33,786.30
442	Ex d Junction Box	2	Nos	25,784.00	51,568.00
443	Supply of Universal type Hand Held Configurators for transmitters with carrying case, rechargeable batteries (one working and one standby), and battery charger as per Data sheet,PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work	1	Nos	6,23,333.70	6,23,333.70
444	Supply of Instrumentation signal cable, control cable, communication cable/LAN cable, Power cables along with all sizes cable glands (WP & Exd), PVC hood, lug, ferrule, etc including Cable laying (buried as well as tray) along with termination, glanding, meggering and loop checking including supply of ferrule, lugs, cable tie, cable clamp, cable marker etc. as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.				
445	1Px 1.5mm2	500	MTRS	145.20	72,600.00
446	12Px 0.5mm2	900	MTRS	536.80	4,83,120.00
447	1Qx1.5mm2	30	MTRS	192.50	5,775.00
448	12Tx1.5mm2	200	MTRS	862.40	1,72,480.00
449	1Tx1.5mm2	180	MTRS	176.00	31,680.00
450	6Px0.5mm2	200	MTRS	381.70	76,340.00
451	2Px1.5mm2	200	MTRS	149.60	29,920.00
452	Cat 5 (LAN)	160	MTRS	146.30	23,408.00
453	3C x 2.5mm2	240	MTRS	225.50	54,120.00
454	Supply & laying of Instruments cable tray with tray cover (Branch Cable tray (50mm x 50mm), Main cable tray 900 mm, cable tray 300mm, cable tray 150 mm.) as per requirement, instruments/ PGD, CCTV/ mounting poles, instrument protection sun sheds, angles, channels, MS plates & all the erection materials and as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including installation of support, cable clamping, installation of tray cover and support painting.	1	LS	4,43,025.00	4,43,025.00

455	Supply , installation & laying of tubes and fittings as per requirement and as per PTS-Instrumentation with appendices and Scope of Work C&I. SS 316L TEE (1/2", Class 3000#, Screwed, NPTF, Seamless) ,SS316L GLOBE/BALL VALVE (1/2", Class 800#, Screwed, NPTF, Seamless), SS316L PLUG (1/2", Screwed, NPTM, Hex head, class 3000#), SS316L PIPE NIPPLE (½" NPTM, seamless, schedule #160) Length of the pipe nipple as per requirement, SS316L MALE CONNECTOR (1/2" OD x 1/2" NPTM), SS316L FEMALE CONNECTOR (1/2"OD x 1/2" NPTF), SS316L UNION (1/2" OD), SS316L TUBE (1/2" OD x 0.065" WT), SS316L TUBE (1/4" OD x 0.035" WT)	1	LS	8,74,225.00	8,74,225.00
456	Supply of mandatory spares as per Mandatory Spare **(P.017110 G 11075 I001)**	1	LS	1,10,000.00	1,10,000.00
457	**AT Bokaro** Installation of metering skids, metering cabinet under the supervision of skid supplier, cable laying and terminal of cable from skid junction box to metering system cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	4,08,925.00	4,08,925.00
458	**AT Bokaro** Installation of gas chromatograph skid, analyser & controller cabinet under the supervision of skid supplier, cable laying and terminal of cable from analyser cabinet to controller cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	4,08,925.00	4,08,925.00
459	**AT Bokaro** Installation of H2S & Moisture analyser skids, cabinet under the supervision of skid supplier, laying and terminal of cable from skid field mounted cabinet to LCP/RTU. Including supply of all the required erection, fabrication and civil materials.	1	LS	4,08,925.00	4,08,925.00
460	**Sub-Total Section F**				**99,37,510.00**
461	**SECTION-G [TELECOM WORKS]**				
462	**AT SV 01** Supply of Input out puts cards in existing Remote Terminal unit along with internal wiring at site and configruation of new parameters in existing RTU as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, Installation of Input out puts cards in existing Remote Terminal unit along with internal wiring at site, interfacing with LCP and configuration of new parameters in existing RTU, as per Scope of Work at SV 01				
463	32 channels digital input cards	1	Nos	60,500.00	60,500.00
464	16 Channel digital output cards	1	Nos	60,500.00	60,500.00
465	12 channel Analog input cards	1	Nos	88,000.00	88,000.00
466	Supply Telecommunication system, SDH equipment STM-4 Based SDH Cabinet of (2000H x 800W x 800W along with 100 mm base frame) as per below configuration: - 2*STM-4 + 2*STM-1 + 8FE ports as per PTS-Telecommunication system (P.017110 G 11077 I002), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including erection, testing, integration with existing NMS at Noida, Commissioning and integration with existing telecom system at SV 01 additional SFP of L4.2 for SV 01 connectivity	1	Nos	2,75,000.00	2,75,000.00
467	Supply of CCTV-IP based Fixed colour camera and PTZ colour camera along with power cable, communication cable at each station as per PTS-Telecommunication system (P.017110 G 11077 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work., including erection, testing, integration with existing VMS at Noida, Commissioning and integration with existing telecom system at SV 01				
468	Fixed Camera WP IP65	1	Nos	15,400.00	15,400.00
469	PTZ camera WP IP65	1	Nos	19,800.00	19,800.00
470	Supply of one Analog phones control room, one number in guard room and one number WP IP66 in field safe area as per PTS-Telecommunication system (P.017110 G 11077 I002) , PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work				
471	Analog Phone	2	Nos	4,400.00	8,800.00
472	Analog Phone Ex Proof WP IP 65	1	Nos	8,800.00	8,800.00

473	FXO cards	1	Nos	7,700.00	7,700.00
474	FXS	1	Nos	7,700.00	7,700.00
475	Five pair armoured telephone cable, size 0.5mm2	100	MTR	143.00	14,300.00
476	**AT Bokaro** Free issue RTU by GAIL: Transportation from Gail store to site location, installation, cabling from LCP to RTU, commissioning etc. Erection, installation of RTU inside the station control room including supply of all the required erection materials, fabrication and civil works	1	LS	1,10,000.00	1,10,000.00
477	**Sub-Total Section G**				**6,76,500.00**
478	Total of Section A + B + C + D + E + F + G				**27,07,14,863.21**
479	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Total of Section A + B + C + D + E + F + G above	18	percentage		4,87,28,675.38
480	Rate of Extended Stay Compensation per month beyond the time schedule and grace period mentioned in Bidding document for reasons solely attribute to Owner (exclusive of GST) Notes:- 1;- Extended Stay Compensation shall be loaded on the quoted price as per evaluation methodology. 2;- In case, no rate for extended stay compensation is stipulated, it will be considered that extended stay compensation is not required by the Bidder and the rates quoted by them shall be valid till completion of works in all respects.	1	Nos		23,61,300.00
481	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Extended Stay Compensation at Sl. No. 480 above	18	percentage		4,25,034.00
	Grand Total				32,22,29,872.59

ANNEXURE III - TRACTEBEL COST ESTIMATE

LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B

TENDER ID: 2021_GAIL_99100_1
TENDER REFERENCE NO.: P.017110 G 11031 R010

S. NO.	ITEM DESCRIPTION	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
				UNIT RATE	TOTAL RATE
1	**SECTION-A (MAIN LINE WORKS)**				
2	**CH.0.00 KM to CH.5.667 KM**				
3	**MAINLINE, PIPING AND MECHANICAL**				
4	PIPELINE LAYING / INSTALLATION Laying/ installation of coated line pipe, associated fittings and accessories, etc. as per specifications, drawings, other provisions of Contract and instructions of Engineer-in-Charge, including but not limited to carrying out the following: "Receiving and taking-over", handling, loading, transportation and unloading of Owner supplied coated and bare line pipes and other Free Issue Materials from Contractor's own stock-yard to Work site including stringing on the pipeline Right-of-Use (ROU), Arrangement of all additional land required for Contractor's storage, Performing the additional survey wherein survey data is not sufficient in the opinion of Contractor, arrangement of working RoU if RoU width is not sufficient for equipment/ vehicle movement etc., access for construction (other than Owner provided ROU; Developing necessary access way to the worksite, including earth filling, levelling, etc.; supply of all materials (except Owner supplied materials), supply of all materials, consumables, equipment, labour, etc.; fabrication, Staking and installation of construction markers, clearing, grubbing, grading (as required) of Right of Use; clearing and grading of ROU; Cutting/ uprooting of shrubs, plants, vegetation within ROU; , Trenching to all depths and to a width to accommodate the pipeline with optical fiber cable (inside HDPE Duct) by excavation in all types of soil (in case of hard rock, additional payment for hard rock breaking will be paid as per separate SOR line item), including additional trenching for seismic and other areas as specified,(Rate for laying of optical fibre cable and HDPE Duct not be included here and same to be quoted against separate SOR item); Carrying out repairs of pipe and coating defects not attributable to Owner; Thorough internal cleaning of all pipes by suitable methods to remove debris, shots, grits etc.; Stringing of line pipes along ROU including providing straw bags, soft padding/sand padding; Aligning, cold field bending, cutting and beveling (as required) of pipes for welding and field adjustments, NDT & NDT of re-beveled area, welding, carrying out destructive & non- destructive testing of welds required as per approved NDT specifications (including radiography) and providing all requisite equipment, labour, supervision, materials, films, consumables etc.; carrying out repairs of weld joints as required, carrying out re- radiography and other non-destructive tests on repaired joints, etc.; Installation of carrier pipe including concrete coated pipes (wherever required),				
5	(Concrete Coating on pipes, covered separately) at all crossings including roads/ canals/ nala/ water crossings etc. (supply and installation of casing pipe by open cut or by Jacking/ boaring method covered separately) including pre-testing as required; Carrying out installation of carrier pipe in the casing pipe at cased crossings; Coating of all field weld joints, long radius bends (fabrication of Cold field bends covered here and fabrication of 6D bends by induction heating covered separately), buried fittings etc.; Supply & Installation of warning tape along the entire length of Pipeline including Crossing. Lowering the pipelines in trench, providing required padding over and around the pipeline with sand/graded material (in rocky areas), backfilling with available approved excavated material and/or other suitable soil (supply and providing of soft soil for pre & post padding in Rocky area); Supply and installation of slope breaker as per specifications and drawings in steep slope areas, wherever required; Carrying out hydrostatic testing including air cleaning, flushing, filling, gauging, pressurization of complete pipeline in various test sections as approved by Engineer-In-Charge to the specified test pressure, providing all equipment, pumps, fittings, instruments, dead weight tester, all types of pigs etc., and services, supervision, labour, consumables, arranging water required for hydrostatic testing including supply of corrosion inhibitor, air, etc. as required, locating of leaks and rectification of defects attributable to Contractor, re-testing after rectification, successful completion of hydro-testing of pipeline (De-watering covered else where in the SOR); including all tie-in(s) with the pipeline/ piping installed by others including cutting of test header, re- beveling as required; Carrying out all temporary, ancillary, auxiliary works and all incidental works required to make the pipeline ready for pre- commissioning; Carrying out EGP for the entire stretch of completed pipeline, Repair of defects recorded during EGP/gauge plate run or otherwise including cutting, beveling, welding, NDT, field joint coating etc.; as applicable, Final clean-up and restoration of right of use including obtaining NOC from respective statutory authorities as required and disposal of debris and returning all surplus material to designated disposal areas/storage yard, as directed by Engineer-In-Charge; Restoration of land, facilities and boundary wall etc. at associated facilities dismantled/damaged by the Contractor during construction; Obtaining work permits/ NOC from various statutory authorities having jurisdiction and complying with all stipulation/conditions/recommendation of the said authorities; Preparation of as-built drawings, pipe-book and other records. SOR shall be read in conjunction with Project drawings, scope of work, specifications, standards and other provisions of contract document. The work includes the Survey data & site preparation, Stringing/Chainges in direction, Beveling of pipe element, Welding Procedure Qualification & Welders Qualification, Welding of pipe element, Inspection & testing of production welds, Field joint coating, controlled blasting, chiseling, etc., Material hand over & material handling, Lowering-in & ballasting, All crossings except HDD as mentioned in Crossing List (including installation of carrier pipe inside the Casing at cased crossing) , Backfilling (for all depths in all types of soil, soft /hard rock) , including trench padding with sand, graded earth in rocky areas & rock shield(if required as per specs) reinstatement (restoration) and preparation of				
6	All above works shall be executed in accordance with scope of work, GTS, PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. 1. Supply and Installation of OFC and HDPE Ducts along the entire pipeline route, adjacent to the new pipeline, along with all required accessories, fittings and associated items, is covered separately in the SOR. All above works for buried pipeline (including hook-up pipeline from Tap Off Point inside ONGC GCS, Jharia upto proposed plot for GAIL DT), as per following details :				
7	ND 8", API5L X60 - 6.4 mm	4250	M	2,728.00	1,15,94,000.00
8	ND 8", API5L X60 - 7.1 mm	1588	M	2,750.00	43,67,000.00

S. NO.	ITEM DESCRIPTION	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
				UNIT RATE	TOTAL RATE
9	Concrete slabs (Mechanical Protection) as per technical specifications Supply, fabrication and installation of reinforced concrete weights. Reinforced steel size should be 8 mm. top and bottom at a rate of 200 mm c/c of precasted RCC 1:2:4 on pipeline of wall thickness of 75 mm thick and size as per specifications & Standard drawings and instructions of Owner/ Owner's representative including supply of consumables, materials, equipment, labor, supervision, all associated civil works.	110	M	1,693.44	1,86,278.40
10	Continuous Concrete Coating Supply of all consumables and materials, equipments, manpower, submission of application procedure with calculations for anti-buoyancy, design mix procedure qualification and application of continuous concrete weight coating thickness mentioned below (higher also, in case design requirements) on pipeline of all thickness, concrete weight coating of the field joints thereof, and performing all works as per specifications and instructions of Owner/Owner's representative and other provisions of CONTRACT DOCUMENT.				
11	25 mm thick	12	M	1,163.80	13,965.60
12	30 mm thick	12	M	1,397.00	16,764.00
13	GEO TEXTILE BAGS FOR ANTI-BUOYANCY				
14	Additional works over and above item no. 4 to 8 for design, manufacture and supply of Non-biodegradable geo-textile bags and installation of geo-textile bags duly filled with gravel/ stone ballast on pipelines of all wall thicknesses for anti-buoyancy, drawings, scope of work and instructions of Engineer-in-Charge and other provisions of the Contract document.				
15	ND 8" (for all thicknesses)	12	M	2,200.00	26,400.00
16	Permanent Markers Supply, fabrication and installation of following types of permanent markers along the pipeline route including all associated civil works such as excavation in all types of soil, construction of pedestals and grouting with concrete, clearing, supply & application of approved color and quality of primer and paint, stencil letter cutting for numbers, direction, chainage, etc. restoration of area to original condition and performing all works as per drawings, specifications and instruction of Owner/Owner's Representative.				
17	Pipeline Warning Signs	14	Nos	3,135.00	43,890.00
18	Right-of-way boundary markers	22	Nos	1,650.00	36,300.00
19	Kilometer Markers	4	Nos	3,732.00	14,928.00
20	Aerial Markers	1	Nos	15,180.00	15,180.00
21	Directional Markers	69	Nos	3,765.00	2,59,785.00
22	Repair of Defects in Pipe Coating (Attributable to OWNER)				
23	Repair of Line Pipe Coating: Supply of all coating repair materials as per the requirements of the relevant specifications, supply of all consumables, utilities, equipment, and all manpower required, pipe cleaning and surface preparation, repairing of coating defects (resulting in holiday in coating) and testing including all handling, transportation, etc. for line pipes, performing all works necessary for the completion of the works strictly in accordance with the relevant specifications and instructions of OWNER.				
24	Repair of Holidays in Coating	20	Nos	958.00	19,160.00
25	Repair of Cosmetic Defects in Coating: Description of same as in item no 23 above, but for repair of cosmetic defects in coating.	30	m3	2,319.00	69,570.00
26	**Repair of Defects in Line Pipes**				
27	Repair of OWNER supplied pipes of all wall thicknesses, recorded at the time of taking-over by CONTRACTOR at all places of work.				
28	Cutting and rebevelling	15	Nos	3,469.00	52,035.00
29	Jack out method	15	Nos	3,469.00	52,035.00
30	All works for locating burst (occurred during hydrostatic testing and tightness test attributable to Owner issued materials) including detecting burst, necessary repairing/replacing defective pipe lengths, including cutting out and removing the defective pipe, pretesting the replacement pipe, welding of replacement pipe into mainline and NDT of welding, repair and re-testing of defective welds, coating of welded joints, cleanup, retesting including providing all labor, materials, consumables and inputs other than OWNER supplied materials and performing all works as per drawings, specifications and directions of Owner/ Owner's representative. In case of pinhole leaks not easily detectable all works for locating leak (occurred during mechanical resistance test and tightness test attributable to Owner issued materials) including detecting leak, The Payment will be made as per actual efforts and based on Equipment and manpower Rate provided in SCC . Further replacement & retesting will be paid as above.	2	Per burst	1,49,545.00	2,99,090.00
31	LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER) (FOR TERMINAL PIPING) LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER DUE TO FIM) All works for leak/burst (occurring during hydrostatic testing) by necessary repair/replacement of defective pipe length, including cutting and removing out defective pipes, welding, NDT of welds, repair and re-testing of defective welds, painting of welded joints, clean-up, re hydro testing of the pipe segment including providing all necessary equipment, labour, materials, consumables and inputs other than Owner supplied materials and performing all works as per drawings, scope of work, specifications, standards enclosed with the Contract and directions of Engineer-in-Charge. Note: 1. This rate shall be applicable for manufacturing defects in Company supplied materials only.	6	Inch-meter	1,037.00	6,222.00

S. NO.	ITEM DESCRIPTION	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
				UNIT RATE	TOTAL RATE
32	IDLE TIME PRESERVATION OF PIPELINE Preservation of complete pipeline and associated facilities and its maintenance including supply of all consumables, all equipment, man- power, etc., complete as per the requirements of specifications, scope of work, standards, other provisions of Contract document and instructions of Engineer-in- Charge. By filling and pressurizing with nitrogen including supply and maintenance of nitrogen as per following details:				
33	Pipe OD - 8 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - 3 MONTH	6030	M	27.00	1,62,810.00
34	Pipe OD - 8 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - FOR EVERY ADDITIONAL MONTH BEYOND INITIAL 3 MONTHS	6030	M	27.00	1,62,810.00
35	**PRE-COMMISSIONING FOR NATURAL GAS PIPELINES SYSTEM, Carrying out pre-commissioning activities and pre-commissioning checks to the specified acceptance criteria, making the entire pipeline system ready for commissioning (It includes cleaning including magnetic cleaning, Electrical Geometrical Pigging survey, dewatering, swabbing,, pre-drying activity, Golden-tie ins connecting the stations),, supply of all equipment, man-power, consumables, including all type of pigs and required quantity of nitrogen, materials for all temporary works and performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.**				
36	Pipe OD - 8 INCH	6030	M	27.50	1,65,825.00
37	**Commissioning Assistance**				
38	OVERALL COMMISSIONING OF ENTIRE PIPELINE SYSTEM Overall commissioning including system checks, inertisation (as required) and charging of entire pipeline system, including all stations and all associated facilities including notifying the Company that the pipeline system is ready for commissioning; Review of status jointly with the Company and obtaining final clearance for start of commissioning; Development and submission of commissioning procedures, obtaining Company approval thereupon, carrying out overall commissioning of the total pipeline system including all facilities and all necessary coordination/ liaison with other Contractor(s) operations; Carrying out commissioning; Supply of all equipment like Nitrogen vapourisers (as required), along with all piping and instruments, temporary venting/ flaring/draining facilities as applicable, man-power, consumables including pigs and required quantity of Nitrogen (as required); Performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.				
39	Pipe OD - 8 INCH	6030	M	27.50	1,65,825.00
40	PIPELINE INFORMATION MANAGEMENT SYSTEM Providing pipeline information management system using web based software for monitoring pipeline construction progress and providing all "As Built" data & drawings for entire length of pipeline as per specifications enclosed with the tender document.	1	LS	15,00,000.00	15,00,000.00
41	VIDEO FILM & PHOTOGRAPHY OF CONSTRUCTION ACTIVITIES Preparation of high resolution video films with audio commentary and Industrial photography covering all aspects/activities of pipeline construction annotated as required, conversion of same to video DVD/Blue Ray format, submitting three (3) sets of the same as per details in scope of work document	1	LS	2,91,931.01	2,91,931.01
42	**FABRICATION OF LR BENDS :**				
43	Fabrication of 6D bend / LR (Induction) bends as per the relevant standard & Specification attached with the tender document from free issue linepipes (mother pipe) including but not limited to the following: "Receiving and taking over of free issue linepipes" from GAIL Dump Yard location as mentioned in Scope of Work, carrying out inspection of line pipe at the time of receive taking over in the presence of Company representative, carrying out repair of pipe defects attributable to Contractor after taking over, including supply of consumables & equipments; handling, hauling, transportation and loading/unloading required to transport the mother pipes between place of issue, LR bend fabricator/ manufacturer, intermediate storage as required, and final delivery of fabricated LR Bends to the worksite(s), as per requirement, Manufacturing/ fabricating of LR Bends, as per project requirements and Specifications. LR bends exact angle(s) shall be as per pipeline alignment. Note:- 1. Rate for repairing of defects in linepipes identified and recorded at the time of receiving & taking over i.e. defects attributable to Company shall be quoted separately in the applicable items of the SOR. 2.Loading of Pipe into installation contractor trailer shall be carried out by the GAIL Dumpyard maintenance agency already engaged by the Company.				
44	Bare Pipe ND 8", API5L X60 - 6.4mm	8	Nos	83,600.00	6,68,800.00
45	Bare Pipe ND 8", API5L X60 -7.1 mm	15	Nos	88,000.00	13,20,000.00
46	**SUPPLY AND INSTALLATION OF CASING PIPE & 6 INCH CS CONDUIT:** Supply and installation of casing pipe and 6 inch CS conduit for OFC by jacking / boring or open cut for rail, road or canal crossings wherever required in all types of soils and terrain separately for carrier pipes and fibre optic cable inside HDPE duct, supply of casing pipes and all other Contractor supplied materials viz. casing insulators and casing end seals as per enclosed drawing, materials for casing vents and drains, etc. including transportation, supply of all other materials, equipments, consumables, man-power, welding including visual inspection of all weld joints, installation of casing insulators, end seals, vents and drain-off pipes, backfilling and restoration as original of the facility crossed and performing all works as per drawings, specifications including PTS and GTS and instructions of Engineer-in Charge and provisions of Contract document.				
47	Supply and installation of Casing pipe by Boring / Jacking as per item no. 46 (Railway crossing) Casing Pipe Details: (Pipe 14" , 8.7 mm Thick, API 5L GR.B)	200	M	22,000.00	44,00,000.00

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				UNIT RATE	TOTAL RATE
48	Supply and installation of Casing pipe by Boring / Jacking as per item no. 46 (Other than Railway Crossings) Casing Pipe Details: (Pipe 14" , 6.4 mm Thick, API 5L GR.B)	12	M	12,100.00	1,45,200.00
49	Supply and installation of 6 inch CS Conduit by Boring/Jacking as per item no. 46 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	200	M	6,600.00	13,20,000.00
50	Supply and installation of Casing pipe by open cut as per item no. 46 Casing Pipe Details: (Pipe 14" , 6.4 mm Thick, API 5L GR.B)	12	M	5,500.00	66,000.00
51	Supply and installation of 6 inch CS Conduit by open cut as per item no. 46 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	12	M	4,400.00	52,800.00
52	**HDD CROSSING**				
53	**Generalities**				
54	Topographic / Bathymetry, Geotech Investigation and Hydrological data collection				
55	Site preparation				
56	Design & stress calculations as per requirement				
57	Material hand-over and material handling				
58	Site reinstatement				
59	Final dossier including all notes & calculations as required in the specification				
60	***Installation of 6 inch CS Conduit***				
61	Teletransmission--Separate Drilling for 6 inch CS Conduit for OFC installation				
62	Installation of HDPE duct & OFC cable inside 6 inch CS conduit				
63	Drilling & Pulling of 6 inch CS Conduit shall be done before mainline HDD.				
64	***Pipeline string***				
65	Beveling & welding				
66	Inspection & testing of welds				
67	Field joint coating				
68	Temporary support (roller)				
69	Control of pipeline string				

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70	Hydrotesting & leak test				
71	***Drilling operation***				
72	Earthwork entry / exit points including grading erection of embankment etc..				
73	Supply & clearing out of all material needed for drilling				
74	Drilling of washer pipe, reaming & cleaning of drill opening, supply and preparation of bentonite				
75	Pull back of the pipe string				
76	Disposal of surplus of soil & bentonite				
77	Control of the integrity of the coating				
78	***Work at entry point***				
79	Changes in direction				
80	Beveling & welding				
81	Inspection & testing of welds				
82	Field joint coating & coating of all bare section of pipe				
83	Earthwork				
84	Lowering-in				
85	backfilling as required				
86	***Work at exit point***				
87	Changes in direction				
88	Beveling & welding				
89	Inspection & testing of welds				
90	Field joint coating & coating of all bare section of pipe				
91	Earthwork				
92	Lowering-in				
93	backfilling as required				

S. NO.	ITEM DESCRIPTION	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
				UNIT RATE	TOTAL RATE
94	Complete work for the water/ Road/ Rail crossings, including taking over and handling of linepipes from Contractor Storage Yard to worksite, Arrangement of all additional land required for Contractor's storage, fabrication, access for construction; construction design calculation and engineering of the crossing, mobilization and demobilization at site(s), supply of all materials as per "Scope of Supply" and all consumables, equipment, manpower and other resources, and acquiring the required land for site preparations, and execution of, but not limited to, the following works in accordance with specifications, drawings, and as per provisions of the Contract document and instructions of the Company/ Engineer-in- Charge: Carry out all surveys required for collecting data relevant to design and construction of the crossing, preparation of all necessary construction drawings for Company's approval as per the provisions of the Contractor document, Preparation of detailed construction method statement and calculations including Scour Depth calculations for river/ canal crossings, Strings preparation including welding, 100% Radiography of welds, NDT of welds and re-beveled areas, radiography, weld repair and re-test, pre-testing of completed string, corrosion coating of field joints with Dirax or equivalent, inspection of corrosion coating and repair of defects, Preconstruction surveys and collection of all necessary data, Installation of pipeline and CS conduit (6 Inch CS Conduit shall be installed through Seperate Drilling) , horizontal directional drilling to the correct profile as per approved drawings and specification, Post-installation hydrotest including leaks and repair of defects and retesting, etc. for defects attributed to Contractor's faulty work, Supply, fabrication and construction of protective fencing as required, Hydrotesting, Supply, fabrication and erection of pipeline markers, Restoration and clean-up etc., Preparation of as-built drawings and other records etc., All other works not specifically listed herein, but required as per specifications, drawings, provision of contract document, calculations, and construction method statements, leading to successful completion of works.				
95	Linepipe details:- (Pipe 8" dia, Wall Thickness: 7.1 mm, Pipe Grade: API 5L GR.X-60 PSL 2, External Coating: 3LPE) CS Conduit details: (Pipe 6" dia, 6.4mm Thick, API 5L GR.B) Note: 1. CS Conduit shall be supplied by the Contractor. Radiography & Hydrostatic testing is not required to be done for CS Conduit. (6 Inch CS Conduit shall be installed through Seperate Drilling) Contractor shall quote accordingly. 2. The rate shall be applicable for the drilled length of the HDDs. All above works shall be executed in accordance with scope of work, GTS,PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. This line item is applicable for HDD crossing mentioned in the Crossing List with prior approval of Engineer - In-Charge during Construction.	192	M	32,445	62,29,440.00
96	**SUPPLY & INSTALLATION OF OPTICAL FIBBE CABLE AND HDPE DUCT**				
97	Suppy of 24 Fibre Composite armoured Optical Fibre Cable drum (6 fibre G-655 & 18 fibre G-652) of 4 km +/-5% Cable drum length with fiber terminal closure, inspection chamber, electronic route marker all along pipeline route, Two number electronic locater as per PTS-Optical Fibre cable and Scope of Work C&I along with all required accessories and fitments not mentioned seperately.	7000	M	75	5,25,000.00
98	Inspection/Jointing Chamber (fabricated or readymade)	3	Nos	6,325	18,975.00
99	Blowing Pit (fabricated or readymade)	7	Nos	6,325	44,275.00
100	Supply of jointing closure 24 Fiber, 2 way including all accessories (3M, Siemens, Reychem make only)	3	Nos	3,450	10,350.00
101	Supply of End to End OFC termination of wall mounted FTC with pig tails other accessories for termination of OFC - 24 Fibre in the Telecom Room at Jharia & SV28	2	Nos	17,250	34,500.00
102	Electronic marker	3	Nos	4,025	12,075.00
103	Electronic Locator	1	Nos	2,30,000	2,30,000.00
104	Supply of 50mm OD permanently lubricated HDPE telecom duct along with all the required accessories as per PTS-Optical Fibre cable and Scope of Work C&I	7000	M	73.50	5,14,500.00
105	Laying of HDPE Duct : Laying of 50mm HDPE Ducts in same pipeline trench direct buried, or inside 6 inch CS conduit at various crossings as per Specification in all type of soil & terrain, excavated as required, padding, backfilling, etc. including supply of accessories required for HDPE Duct installation, including plastic couplers, end plugs, cable sealing plugs, end caps, etc. suitable & sufficient for above supplied ducts, cleaning and sealing of ducts at the end laid drum lengths, preparation and supply of cable blowing pit at each Km jointing of HDPE duct, testing of HDPE Duct and accessories after laying preparation of report and final drawing and documents as per specification, joint location marking, erection accessories, as-built, etc.	7000	M	29.00	2,03,000.00
106	Blowing of Optical Fibre Cable inside HDPE Duct : All activities pertaining to Blowing of Optical Fibre Cable in same pipeline trench directly (after testing drum at site), inside HDPE duct along the pipeline and at crossing, sealing using all materials required as per specification	7000	Nos	39.50	2,76,500.00
107	Installation of FTC & Wire mesh, termination of OFC on FTC / DDF inside telecom room, splicing with steet fibre, fibre test, OTDR test, power testing of laid OFC, identification of fault, rectification, earthing, final testing and commissioning, preparation of reports, etc. work complete in all respect with all necessary accessories for all location till final Handing Over and Taking Over by Owner of laid OFC.	1	LS	86,250.00	86,250.00
108	**TRANSPORTATION OF COATED AND BARE LINEPIPES FROM GAIL DUMPYARDS (ANY LOCATIONIN INDIA) TO CONTRACTOR STORAGE YARD:**				

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				UNIT RATE	TOTAL RATE
109	"Receiving and taking over" of "free issue" Linepipes from GAIL Dump Yard location (any location in India); Carrying out inspection of Linepipes at the time of receiving and taking-over, recording of pipe & coating defects at the time of taking over in the presence of Company's representative, carrying out repair of coating defects & pipe defects attributable to Company; including supply of materials, consumables & equipments; handling, hauling and transportation from designated place of issue to Contractor Storage Yard; unloading and stacking of the linepipes at Contractor Storage Yard; including arranging all equipments, trailers, trucks & manpower; all works as per Scope of Work, drawings, PTS, GTS and other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, Provision of Contract & instructions of Engineer InCharge.				
110	Linepipe Details:- Coated and Bare Line Pipe 8" diameter API 5L Gr. X-60 PSL-2 Wall Thickness - 6,4mm / 7.1mm External Coating - 3LPE, Internal Coating - Liquid Epoxy 1) Loading of Pipes into Installation contractor's trailer shall be carried out by the contractor. 2) Development & Maintenance of Contractor Storage Yard adequate to store the linepipes including arrangement of all Lifting & Handling equipment at Contractor's Storage Yard shall be done by the Contractor. Rate for the same shall be quoted in applicable items. 3) Rate for repairing of coating defects in linepipes identified and recorded at the time of receiving & taking over i.e. coating-defects attributable to Company shall be included in this item. 4) Rate for repairing of pipe-defects identified and recorded at the time of receiving & taking over i.e. pipe-defects attributable to Company shall be quoted separately in the applicable items of the SOR. 5) Transportation of line pipe from Contractor's Storage Yard to work site is included in SOR item 1 above, No separate payment will be applicable for the same.	350000	Ton-Km	31.90	1,11,65,000.00
111	TRANSPORTATION OF FREE ISSUE PIPING ITEMS (OTHER THAN LINE PIPE) FROM GAIL STORAGE YARDS (ANY LOCATION IN INDIA) TO CONTRACTORS YARD / WORKSITE(S) : "Receiving and taking-over", handling, lifting, loading, transportation and unloading of Company supplied "free-issue materials" (Other than line pipe) viz. Metering Filtering and PRS Skid, Scrapper Launcher/ Receiver & accessories, Valves with or without Actuators, Insulation Joints, Flow Tee, Pig Signallers, fittings, flanges etc. from GAIL Storage yards location (any location in India) to Contractor's Storage Yard / work-site(s). Note:- 1) Location of GAIL Storage Yard shall be anywhere in India. Contractor shall quote accordingly. 2) Transportation of FIM from Contractor's Storage Yard to work site, is included in SOR item 119 below, No separate payment will be applicable for the same.	24000	Ton-Km	42.00	10,08,000.00
112	**DEVELOPMENT OF CONTRACTOR STORAGE YARD:**				
113	Development of the Contractor Storage Yard including fencing, illumination etc., including deployment of all lifting and handling equipments, manpower required to stack, unload and load all Free Issue Material (FIM) including Line Pipes and all bought out items, as required; storage of all Free Issue Material and bought out items for the required duration as per project requirement, all works as per Scope of Work, drawings, other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, PTS, GTS and Provision of Contract & instructions of Engineer In-Charge. The storage yard shall be used for storage of all Free Issue Line pipes, all other Free Issure Material (FIM) and all bought out items required for the project. Notes:- 1) Development of contractor storage yard adequate to store all the material required for Project, including all Free Issue Material (FIM) and bought out items. (Rate for the same shall be captured in this item)	1	LS	10,94,390.00	10,94,390.00
114	Hard Rock breaking by controlled blasting / chiseling method (rate will be applicable in case when prior approval for rock breaking is obtained by the contractor from GAIL / PMC)	50	M3	948.42	47,421.00
115	Clean Agent Fire Supression System as per Scope of Work	1	LS	14,76,742.19	14,76,742.19
116	Restoration of underground utilities (pipes & cables) during excavation at ONGC, GCS Jharia and Receiving Station (which is inside SV-28 Premises)	5	Nos	27,500.00	1,37,500.00
117	**Sub-Total Section A**				**5,06,08,522.20**
118	**SECTION-B [MECHANICAL (PIPING & TERMINAL WORKS)]**				
119	**PIPING WORKS AT DESPATCH AND RECEIVING STATIONS AND HOOK-UP WITH ONGC GCS, JHARIA** All works for installation of all piping at all elevations for Despatch and Receiving Stations as indicated in Drawings, Scope document, including supply of all consumables, Gaskets, nuts, bolts Studs, manpower, materials and equipment (except Company supplied free-issue materials), aligning, grouting, tie-in with pipeline and carrying out all mechanical works of underground and above ground piping including fabrication, welding, installation of all pipes, valves (manual & actuated), flanges, fittings, flow tees, pig signalers, insulating joints, corrosion monitoring probes /corrosion coupons, installation of instruments (pressure/temperature gauges, vents, drains-off, safety relief valves, electro hydraulic valves etc.) as indicated in P& IDs and GADs. 100% Radiography of weld joints of piping above 1.5 inch, Magnetic particle & Die penetration test for piping 1.5 inch & below, all NDT of welds, weld repairs/retesting, hydrostatic testing, cleaning/flushing, functional testing, de-pressurizing , Drying and dewatering, cutting and re-beveling (as required), hookup of all pipeline/utilities at the battery limit with the pipeline/utilities installed by others, obtaining all statutory clearances, approvals and permissions for the work (wherever required), excavation and filling in all types of soils including soft/hard rock for installation of piping/ pipe supports; corrosion coating and external painting (as required), finishing, clean-up and restoration of site, preparation of as- built drawings, documents and project records and performing all works as per drawings, specifications, other provisions of Contract document and instructions of Engineer-in-Charge. Civil/ structural works for piping supports will be paid separately as per unit rate provided elsewhere in				

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120	Fabrication and Erection of piping as per item no.110, (For Pipe Size 2 Inch and above, 100% Radiography) Note: 1. Rate for Handling, Fabrication and erection of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item. Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor.Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes 2" & above, shall also be part of this item. Contractor shall quote accordingly.	1500	INCH DIA METER	870.87	13,06,305.00
121	Fabrication & Erection of Piping as per item no. 110 (For Pipe Size Below 2 inch, Magnetic particle & Dye Penetration Test as per the requirement of specification) Note: 1. Rate for Handling and installation of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item.Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor. Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes below 2", shall also be part of this item. Contractor shall quote accordingly.	50	INCH DIA METER	1,109.02	55,451.00
122	Painting of Piping (Pipe, Fittings, Flanges, Valves, Equipments, etc.) as per item no. 110	1550	ICH METER	83.00	1,28,650.00
123	Hydrostatic testing, cleaning / flushing, functional testing, de-pressurizing, dewatering & drying of Piping as per item no. 110 (for all size upto 10").	1550	ICH METER	67.54	1,04,687.00
124	**INSTALLATION OF COMPANY SUPPLIED FIM (FML SKID AND PIG LAUNCHER/RECEIVER SYSTEM) AT DESPATCH TERMINAL AND RECEIVING TERMINAL**				
125	Installation of Company supplied Filtering, Metering and PRS Skid and Scrapper Launcher/ Receiver with accessories, at stations including all handling and installation works; as per drawings, specifications enclosed with the Contract and directions of Engineer-in-Charge. Cost of Transportation of above Free issue items, from Contractor's own stock-yard to Work site for station works, to be included in this SOR item. No separate payment will be applicable for the same.	1	LS	4,95,000.00	4,95,000.00
126	**CONTRACTOR SUPPLIED ITEMS:(Supply of Items as per attached PTS,GTS,Data Sheet,QAP and PMS)**				
127	**Station pipe -Seamless**				
128	1" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, PE, SEAMLESS	6	METER	1,109.00	6,654.00
129	2" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	90	METER	2,068.00	1,86,120.00
130	4" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	135	METER	3,046.00	4,11,210.00
131	8" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	50	METER	3,850.00	1,92,500.00
132	8" pipe, 6.4mm thk, ANSI B 36.10, API5L X 60, BE, HFERW/SEAMLESS	29	METER	1,985.50	57,579.50
133	10" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	12	METER	11,614.00	1,39,368.00
134	**Supply of Fitting & Flanges**				
135	1 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 350 LF2,CL1, BW, ANSI B16.25	4	Nos	1,298.22	5,192.88
136	2 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25.	3	Nos	1,793.00	5,379.00
137	1" WNRF FLANGES, 6C1, SCH. 160 / 600#, WNRF, B-16.5, ASTM A350 LF2, CL1, BW-ANSI B16.25 RF	4	Nos	1,098.00	4,392.00
138	8", WNRF FLANGES, 6C2, 6.4 thk/ 600#, WNRF, B-16.5, ASTM A694 F60 OR EQUIVALENT, CL1, BW-ANSI B16.25 RF.	5	Nos	9,453.00	47,265.00
139	1", BLIND FLANGES, 6C1, 600#, RF, B-16.5, ASTM A350 LF2, CL1, RF	4	Nos	968.00	3,872.00
140	3/4" EQUAL TEES, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25,	1	Nos	323.00	323.00
141	3/4", CUP THREADED 6C1, 6000#, ANSI B16-11, ASTM A 350 LF2, CL1 , BW - ANSI B16.25, ANSI B1.20.1,	3	Nos	215.60	646.80

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142	**WELDOLETS (MAINLINE x BRANCH SIZE)**				
143	4" x 1", WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1 ,	2	Nos	2,296.88	4,593.76
144	8" x 2" WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 6.4 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 694 F60	13	Nos	6,545.00	85,085.00
145	8" x 2", WELDOLETS (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	26	Nos	6,545.00	1,70,170.00
146	**GASKETS**				
147	GASKETS, 6C1, 600#, RF, ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 1"	12	Nos	82.06	984.72
148	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 2"	210	Nos	128.92	27,073.20
149	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 4"	30	Nos	286.44	8,593.20
150	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 8"	47	Nos	654.72	30,771.84
151	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 10"	2	Nos	1,100.00	2,200.00
152	**NIPPLES**				
153	NIPPLES, 6C1, Sch 160 /600#, ANSI B 36.10, ASTM A333 GR.6, BOTH ENDS PLAIN, SEAMLESS-LG=100mm, 3/4"	12	Nos	322.30	3,867.60
154	NIPPLES, 6C1, Sch 160 / 600#, ANSI B 36.11, ASTM A333 GR.7, ONE END THRD -MNPT SEAMLESS- LG=100mm, 3/4"	8	Nos	322.30	2,578.40
155	**INSULATING JOINT**				
156	INSULATING JOINT 6C,16.4 mm (X60) x 600# ,MANUFACTURER STANDARDS ,ASTM A694 F60 ,BW - ANSI B16-25, 8"	2	Nos	64,020.00	1,28,040.00
157	**Supply of following Valves as Per attached PTS,GTS,Data Sheet,QAP,PMS & MTO**				
158	1",BALL VALVE - FULL BORE (RF) (ABOVE GROUND),6C1	6	Nos	22,807.10	1,36,842.60
159	3/4", CHECK VALVE (RF) (AG), 6C1	2	Nos	10,450.00	20,900.00
160	3/4",NEEDLE VALVE, 6C1	5	Nos	20,350.00	1,01,750.00
161	**Note (Applicable for all items of SOR Item No 126 to 160):** **1. Before procurement of any of the above materials Contractor will take prior approval from GAIL / PMC.** **2. Payment will be made for actual quantity used.**				
162	**Sub-Total Section B**				**38,74,045.50**
163	**SECTION-C [CIVIL / STRUCTURAL & ARCHITECTURAL]**				
164	**CIVIL , STRUCTURAL & ARCHITECTURAL**				
165	**Earthwork excavation in soil**				
166	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	1770	cum	255.51	4,52,252.70
167	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth beyond 1.5m and upto and inclusive of 3.0m including Removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	50	cum	301.65	15,082.50

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				UNIT RATE	TOTAL RATE
168	**Earthwork excavation in soft rock**				
169	Earth work in EXCAVATION below ground level for all kinds of works in SOFT ROCK and HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as irected including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	130	cum	925.20	1,20,276.00
170	**Backfilling after execution of work**				
171	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps within a LEAD OF 100M,including re-excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/ mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	580	cum	113.35	65,743.00
172	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps beyond a LEAD OF 100M AND UPTO & INCLUSIVE OF 500M including re- excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	250	cum	140.54	35,135.00
173	**Transporting & Disposing the SURPLUS EARTH AND DEBRIS**				
174	Transporting and disposing the SURPLUS EARTH AND DEBRIS including shrubs and vegetations from construction areas to areas ANYWHERE OUTSIDE THE PLANT BOUNDARY, including re-excavating the deposited soil excavated earlier, loading, transportation, unloading, laying at all depths and heights, stacking,levelling and dressing both the area (viz. from where the earth is transported and where it is deposited) to required levels and slopes complete with all lifts as directed. For carting on the basis of truck measurements (volume of truck reduced by 30% for voids). DISPOSAL AREAS OUTSIDE PLANT BOUNDARY TO BE ARRANGED BY THE CONTRACTOR. Royalty as applicable for disposal outside plant limits to be borne by the Contractor	760	cum	232.96	1,77,049.60
175	**EARTH WORK FILLING BY EXCAVATION**				
176	EARTHWORK IN FILLING by excavating the earth from BORROW AREAS arranged by CONTRACTOR for all leads, transporting the earth from borrow area including cleaning & stripping the earth at borrow areas, breaking clods, loading, unloading and laying at all depths and heights in layers of thickness not exceeding 15 cms., watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% of the maximum laboratory dry density, ressing, trimming, levelling the top surface etc. in foundations, plinths, trenches etc. all complete.	4725	cum	595.66	28,14,493.50
177	**PLAIN & REINFORCED CEMENT CONCRETE: (REFER SPECIFICATION NO. (Z/02/0004)**				
178	**PLAIN CEMENT CONCRETE - PCC**				
179	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:4:8 (1 cement : 4 coarse sand (Zone-III) : 8 graded stone aggregate 40 mm nominal size)	105	cum	5,528.71	5,80,514.55
180	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:3:6 (1 cement : 3 coarse sand (Zone-III) : 6 graded stone aggregate 40 mm nominal size)	20	cum	5,850.19	1,17,003.80
181	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:2:4 (1 cement : 2 coarse sand (Zone-III) : 4 graded stone aggregate 20 mm nominal size)	120	cum	6,482.74	7,77,928.80
182	Providing and laying PLAIN CEMENT CONCRETE for all depths below and upto plinth level in foundations, drains, fillings, non-suspended floors, pavements & ramps or any other works etc. including shuttering, tamping, ramming, vibrating, curing, etc. all as specified in any shape, position, thickness and finishing the top surface rough or smooth as specified and directed all complete for concrete grade M20 with 20mm and down size graded crushed stone aggregates/Gravels. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR	110	cum	6,825.00	7,50,750.00
183	**RCC WORKS**				
184	**SUBSTRUCTURE**				
185	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUBSTRUCTURE INCLUDING CENTERING & SHUTTERING) e.g. foundations, raft, beams, pile caps, Retaining walls, counterforts, buttresses, pedestals, pipe sleepers, columns, suspended floors, staircases, landings, steps, brackets etc., including equipment/ machine foundations & pedestals viz. compressors, generators, etc. (including single pour concreting as specified on the drawing), applying cement wash on concrete surface (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering, etc., wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT)for all depths below and upto plinth level in any shape, position and thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	615	cum	7,539.00	46,36,485.00
186	**SUPER STRUCTURE - EXCLUDING CONTROL ROOM BUILDING, GUARD ROOM & BOUNDARY WALL**				

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				UNIT RATE	TOTAL RATE
187	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUPER STRUCTURE INCLUDING CENTERING & SHUTTERING in suspended floors, slabs, beams, columns, walls including counterforts, staircases, landings, steps, facias, fins, mouldings, gutters, shelves, window sills, canopies, lintels, girders, ducts, brackets, chajjas with drip moulds, pedestals, posts, struts, equipment/ machine foundations, ramps etc. (including single pour concreting as specified on the drawing), providing cement wash (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT) FOR ALL HEIGHTS UPTO & INCLUSIVE OF 20 m ABOVE PLINTH LEVEL in any shape, position, thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	70	cum	8,962.00	6,27,340.00
188	**CONTROL ROOM BUILDING (SUPERSTRUCTURE)**				
189	Construction of Control Room Building as per drawings and specification. Building work for all Superstructure works INCLUDING CENTERING & SHUTTERING , Reinforcement , masonry work, partition wall, Plastering & pointing, flooring, Floor finishes, Door & windows, rolling shutter, false ceiling, all finishes, painting, roof treatment complete in all respect etc.)	215	m2	23,378.15	50,26,302.25
190	**GUARD ROOM (SUPERSTRUCTURE)**				
191	Guard Room as per drawings and specification. Building work for all superstructure works including (Reinforcement, masonry work Plastering & pointing, flooring, Floor finishes, Door & windows, painting, roof treatment, all finishes, water supply and sanitary work complete in all respect etc.)	17	m2	22,853.23	3,88,504.91
192	**HYD Bars / MS Bars**				
193	Supplying and placing in position HIGH YIELD STRENGTH DEFORMED STEEL BARS REINFORCEMENT of Grade Fe500D TMT conforming to IS:1786, for RCC work (excluding control room building & Guard room & boundary wall superstructure) including transporting the Steel, straightening, cleaning, decoiling, cutting, bending to required shapes and lengths as per details, binding with 18 SWG black soft annealed binding wire at every intersection, supplying and placing with proper cover blocks, supports, chairs, overlaps, welding, spacers, fanhooks etc. for all heights and depths etc. all complete as directed. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE	70	MT	78,605.87	55,02,410.90
194	**STRUCTURAL STEEL WORKS (REFER TE SPECIFICATION)**				
195	Supplying, fabricating and erecting of structural steel and applying COATING (Post-erection/ Field) of approved quality and shade as per TE Specification or Job Specifications, wherever applicable) over the coat of shop primer already applied, including storage, surface preparation, degreasing, cleaning, drying, providing necessary arrangement for access, testing etc. including touching up of shop for steel structures (Including Wicket Gate, Main Gate and emergency gate, excluding ladders, spiral stairways & hand rails) at all location & levels, all complete as specified, for UNIT (INLAND) areas considering environment classification as INDUSTRIAL. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE. (Unit rate based on Structural steel weight)	25.5	MT	1,32,000.00	33,66,000.00
196	**MISCELLANEOUS STEEL WORKS (REFER TE - SPECIFICATIONS)**				
197	MS Chequered Plates				
198	Supplying, fabricating and erecting in position at all levels and locations bolted, screwed and/or welded M.S. CHEQUERED PLATES of any thickness in walkways, platforms, stairtreads or any other place as directed, etc. cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing, welding, preparation and submission of fabrication drawings and preparing the surfaces for painting and applying shop primer as per TE Specification after fabrication and return of unused/ scrap/ unserviceable chequered plates to Owner's store and material reconciliation etc. all complete as specified and directed	1.5	MT	92,728.34	1,39,092.51
199	Anchor Bolts				
200	Supplying, fabricating, fixing and keeping in position at all levels and locations THREADED ANCHOR BOLTS of all diameters and nomenclature including nuts, washers, anchor plates, pipe sleeves etc. in foundations, columns, pedestals, slabs, beams, walls etc. or any other place as directed including handling & transporting, straightening if required, turning from relevant size M.S. rounds to required diameter, threading, welding, providing necessary templates and auxiliary dummy structures, if any, necessary tying and welding with reinforcement, adjustment of shuttering & reinforcement/any other fixture, greasing exposed metal surfaces, covering bolts and packing the sleeves with jute cloth etc. all complete as specified and directed.(SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.6	MT	1,12,713.10	1,80,340.96
201	MS Metal Inserts				
202	Supplying, transporting, storing, fabricating and fixing in position M.S. METAL INSERT (with lugs) of any shape made out of flats, plates, rolled sections, pipes etc. providing necessary templates, staging, cutting,straightening, if required, bolting, welding as required and embedding in position on both Plain and Reinforced Cement concrete members inclusive of adjusting shuttering & reinforcement/ any other fixture, welding where necessary, tying and holding to correct level, line and position, any auxiliary dummy structures to support the heavy inserts, painting exposed surfaces with a coat of primer as per TE Specification all complete for all depths and heights as specified and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	0.55	MT	1,05,596.88	58,078.28
203	MS Grating				
204	Supplying, fabricating and erecting in position at all levels and locations ELECTROFORGED GALVANISED GRATING (purchased from approved manufacturer by the Contractor) conforming to TE STANDARD (in walkways, platforms, stair treads etc.) including cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing wi , preparation and submission of fabrication drawings, all complete as specified and directed (SUPPLY OF ALL MATE	1.85	MT	1,45,138.65	2,68,506.50

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				UNIT RATE	TOTAL RATE
205	Hand Railing 1000mm				
206	Supplying, fabricating and fixing in position at all locations 1000mm high INCLINED HAND RAILING (for staircases) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade M.S. Tubes conforming to IS:1239 including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE SPEC. preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	4,034.88	40,348.80
207	Supplying, fabricating and fixing in position at all locations 1000mm high HORIZONTAL HAND RAILING (for platforms, walkways, etc. or any other location as directed) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade MS Tubes conforming to IS:1239 and 100x5 MS Toe Plate confirming to IS:2062 (Grade A/B), including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE standard drawing & specification, preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	4,012.73	40,127.30
208	**CHAIN LINK FENCING**				
209	Supplying, fabricating and fixing G.I. chain link fencing with 3.5mm dia. wire, 50x50mm diamond mesh chain link fence fabric conforming to IS:2721 fixed to steel/RCC posts/struts above ground level, including supply of chain link fencing fabric in 1.9 metre wide rolls, stretcher bars, staples, etc. required for fixing the fencing, fixing of chain link fencing between straining posts, fixing of bottom of fencing in cement concrete 1:2:4 blocks and painting with synthetic enamel etc. , including supply and fixing line wires, complete as per drawings, specifications and directions of Engineer -in-Charge (All materials shall be supplied by Contractor). (The measurement of chain link fencing shall be on linear basis for 1.9 m wide fencing fabric)	10	M	5,593.00	55,930.00
210	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of the Engineer-in-Charge. Made of G.I. wire of dia. 4 mm, PVC coated to achieve outer dia not less than 5 mm in required colour and shade.	600	M2	788.12	4,72,872.00
211	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Star' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	200	M	277.70	55,540.00
212	**ROADS & FLEXIBLE PAVEMENT (UPTO WBM LAYER)**				
213	Preparation and consolidation of sub-grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth outside the property boundary in the un-disputed areas as directed by Engineer-In-Charge.	1500	M2	158.00	2,37,000.00
214	Supplying and laying of stone aggregate of 63mm down to 45mm size for WBM layer Base Course, tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 75mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding material of plasticity index upto 6%, including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts etc. complete as per drawings, specifications and directions of Engineer-in-Charge	4500	M2	397.46	17,88,570.00
215	**CONCRETE PAVEMENTS**				
216	Construction of dry lean cement concrete **(DLC) sub base** over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in- charge.	150	cum	3,706.91	5,56,036.50
217	Providing and laying Reinforced Cement Concrete with 20mm and down size graded crushed stone aggregates in flooring, pavements etc. including leaving pockets, if necessary, making recess/drains, laying in alternate panels, etc. for all depths including shuttering, tamping, curing, providing dowel bars with sleeves/tie bars etc where ever required at site. as specified in any shape, thickness, position and finishing the top surface smooth etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For RCC of M-30 grade concrete (all materials including cement but excluding cost of providing & fixing reinforcement and joint sealing shall be supplied by the contractor).	375	cum	8,357.97	31,34,238.75
218	Providing 20mm wide Expansion Joints in pavement slabs as per general technical specification including cleaning the joints of all loose material, filling with 20mm thick impregnated fibre boards for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved Joint Sealing Compound as per IS:1834 Type-B etc. all complete as per drawings, specifications and directions of Engineer-in-Charge	720	M	15.35	11,052.00
219	Sealing joint around pedestal and column etc. 20mm wide x 150 mm deep including filling with 20mm thick impregnated fire board for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved joint sealing compound as per IS:1834 Type-B.	300	M	92.07	27,621.00
220	**RCC PIPE CULVERTS & ELECTRICAL ROAD CROSSINGS ETC. (as per drawing & TE specification)**				

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221	Supplying and laying in position RCC pipes with collars conforming to IS:458 for pipe culverts, cable crossings etc. including cutting the pipe if necessary, lowering, laying in position to proper levels, slopes etc. caulking the joints with spun yarn soaked in neat cement slurry and finishing with cement mortar 1:2 (1 cement : 2 sand) curing etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For following Class and Internal PIPE DIA (MM). (Dia (internal) - 500 mm, Pipe Class - NP3)	20	M	6,026.99	1,20,539.80
222	**U/G AND A/G G.I. PIPELINE SYSTEM - WATER SERVICES tender specification**				
223	Supplying and laying mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ ASTM A105 (Galvanized) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, earthwork in excavation for trenches, valve pits, etc. in all types of soil excluding soft and hard rock including laying of pipes in trenches, joining the pipes and fittings with threaded connections, hydrostatic testing of the piping, backfilling the trenches with selected/approved earth fill material, cutting of roads wherever required, making good the road surface after laying, disposal of surplus earth within a lead of 500 m, etc. including supply of necessary fittings etc. complete as per specifications, drawings and directions of Engineer-in-Charge. For following Nom.Size in mm. (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	1,072.56	10,725.60
224	Supplying and laying above ground mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ASTM A 105 (GALVANISED) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, including laying of pipes on sleeper, walls, including erecting piping on columns, etc. for pump station, overhead tanks, etc. including joining the pipes and fittings with threaded connections, hydrostatic testing of the piping including supply of necessary fittings etc & pipe supports. complete as per specifications, drawings and instructions of Cement Supplied by contractor (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	944.61	9,446.10
225	**MISC. CIVIL AND STRUCTURAL WORKS FOR U/G PIPING AND OTHER CIVIL WORKS**				
226	Providing and laying brick masonry with locally available bricks of specified class (Brick of class lower than specified shall not be accepted) in cement mortar 1:4 (1 cement : 4 Coarse sand) in one or more brick thickness and in any shape in foundation and plinth for valve pits, drains, circular/square manholes, wing walls, etc. including providing recesses, openings, etc. including curing, finishing the joints flush below ground level and raking out joints in plinth with all labour and material, etc. complete as per drawings, specifications and direction of Engineering-Charge. For following Brick Class.	280	cum	6,575.68	18,41,190.40
227	Providing 13mm thick average cement plaster in cement mortar 1:3 (1 cement: 3 sand) on brick walls/stone masonry/pitching or on concrete surfaces for manholes, valves pits, culverts, wing walls, etc. including cleaning and preparation of the surface, scaffolding, curing etc. for all depths and heights complete as per drawings specifications and direction of Engineer-in-Charge.	750	M2	399.52	2,99,640.00
228	**UNDERGROUND SEWER SYSTEM - RCC PIPES**				
229	Supplying and laying underground R.C.C. pipes sewers with socket and spigot ends conforming to IS:458 of approved make, to proper grade and alignment, including earthwork in excavation in all types of soil except soft and hard rock for pipe trenches, etc. including dewatering, shoring and shuttering if necessary, dressing of sides, leveling, grading and ramming of bottoms, cutting the R.C.C.				
230	(Dia (Internal) - 100 mm, Piping Material Class - NP2)	15	M	2,033.78	30,506.70
231	(Dia (Internal) - 150 mm, Piping Material Class - NP1)	15	M	2,258.21	33,873.15
232	(Dia (Internal) - 450 mm, Piping Material Class - NP2)	70	M	2,219.20	1,55,344.00
233	**UNDERGROUND SEWER SYSTEM-HDPE PIPES**				
234	UNDERGROUND SEWER SYSTEM-HDPE PIPES :- Supplying and laying HDPE pipes conforming to IS:4984 of approved make to proper grade and alignment, including earthwork in excavation for trenches etc. in all types of soil except soft and hard rock including dewatering till completion of subsequent works, shoring and strutting, if necessary, dressing the sides, leveling, grading and ramming the bottom, jointing the pipes using hot plates as per manufacturer's recommendation, lowering, providing and laying 1:5:10 (1 cement : 5 sand : 10 aggregate) plain cement concrete of minimum 100mm thickness on bottom and side of pipe as directed, connecting the pipes to manholes and grouting the pipes to manhole/valve chamber walls, including supplying and fixing the specials and fittings, such as bends, reducers, tees, elbows, caps etc. conforming to IS:8008 or fabricated from pipes as per specification, supplying and fixing of flanges, fixing of online valves, including fixing of bolts, nuts and gaskets etc. as per specifications, testing, draining of water and cleaning of pipes after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness, watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit, cutting of road wherever required, making good the same etc. complete for all depths as per drawings, specification and instruction of Engineer-in- Charge. For the following nominal diameter (mm) Pressure Rating(Kg/Cm2).	50	M	888.05	44,402.50
235	**PLUMBING AND BUILDING DRAINAGE**				
236	Supplying and fixing approved quality Cast Iron soil/waste pipe conforming to IS:1729 below ground with necessary specials, bends such as Y-junction, T- junction (both single and double) including plugs, shoes, cowls, jointing with lead caulked joints and testing, cutting in floors, earth work in excavation, encasing the pipe in 50mm THK, PCC M20, backfilling and removal of surplus earth upto a lead of 50M etc. complete as per drawings, specifications and directions of Engineer-in-Complete				
237	100mm dia (All materials including cement supplied by contractor)	10	M	1,418.34	14,183.40
238	80mm dia (All materials including cement supplied by contractor)	10	M	805.32	8,053.20
239	**Supplying and fixing gun metal globe valve conforming to IS:778, complete as per specifications and directions of Engineer-in-Charge.**				

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240	Dia - 50 mm	2	Nos	5,082.95	10,165.90
241	**Constructing of brick masonry valve chamber in 1:4 Cement mortar(1 cement: 4 sand) with CI frame & cover fixed on M-20 grade cement concrete , necessary excavation, M-20 grade foundation concrete, 13mm thick 1:3 cement plaster on inside & all exposed surfaces, backfilling, removal of surplus earth for all leads within the complex limit etc. complete as per**				
242	Dia - 50 mm, Brick Class - 5)	2	EACH	59,230.06	1,18,460.12
243	Providing and fixing approved stone ware 100mmx100mm dia. gully trap as per tender specification, including grating with CI frame and cover 300mmx300mm including brick masonry (brick class shall be as mentioned below) chamber in 1:4 cement mortar(1 cement: 4 sand) on M-20 grade cement concrete foundation, plastered inside and outside surfaces with 1:3 cement mortar (1 cement: 3 sand) with 13mm average thickness including providing and fixing light duty CI frame and cover, painting CI frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat, earth work in excavation, backfilling, removal of surplus earth, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry etc. all complete as per drawings, specifications and directions of Engineer-in-Charge				
244	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	23,199.64	46,399.28
245	Construction as per(Design basis & general technical specification) of brick masonry (brick class shall be as mentioned below) inspection chambers/manholes of 750mmx750mm internal size 1000mm deep(Max.) in cement mortar 1:4 (1 cement: 4 sand) with CI frame and cover 500mm clear dia, (circular Medium duty of grade MD-10) conforming to IS:1726 fixed on RCC slab of M-30 grade,				
246	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	40,208.89	80,417.78
247	Construction, supplying, installation, testing and commissioning of septic tank as per standards and IS:2470 Part-I , with all necessary accessories like inlet, outlet vent pipes, manhole covers, rungs etc. including earthwork in excavation in all type of soil except soft and hard rock, backfilling and disposal of surplus earth for all leads etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge				
248	All material including cement supplied by contractor for (Users - 10 NOS)	1	Nos	1,00,017.92	1,00,017.92
249	**MISCELLANEOUS ITEMS**				
250	Supplying and fixing in position entrance gate in complex boundary wall fencing manufactured out of steel frame work and square MS bars of 20 mm at 100 c/c and horizontal name plate band at lock rail level suitably hinged with box type steel post embedded in cement concrete i.e. providing the tension bar for smooth operation and locking arrangement etc. complete as per tender specification, including painting with two coats of anti-corrosive paint and two coats of approved aluminium/synthetic enamel paint etc. complete as per drawings, specifications and directions of Engineer-in-Charge.				
251	4.0M clear opening width of gate in two panels.	3	Nos	1,22,846.86	3,68,540.58
252	Supplying & Laying interlocking Paver Blocks for roads, footpaths and any other place etc. including providing 50 mm thick sand filling below Paver Blocks including compaction of sand layer, filling the joints by dry sand, providing precast kerb stone of PCC M-20 at edges, including preparation of compacted sub-grade etc. all complete as per drawing, standard and directions of Engineer-in-Charge. (All material including cement supplied by contractor, paver blocks shall confirm to IS: 15658. cloour and shape of paver block shall be as per owner requirements for following thickness of paver blocks				
253	**(Thickness - 60 mm)**	285	M3	1,233.29	3,51,487.65
254	Supply and installation on terrace, high density polyethylene drinking water circular tank as per IS:12701 and ISI marked including supply and installation of all fittings, cover with suitable locking arrangement, float valve, making necessary holes for inlet, outlet and overflow connection and vent pipe etc. and the base supports for tank including supply of all necessary material all complete as per specifications and directions of Engineer-in-charge. (Sintex or equivalent having valid ISI license) for following capacities.				
255	**capacity - 500 litre**	2	Nos	8,232.26	16,464.52
256	Supplying, installation, testing and commissioning of Upflow Anaerobic Filter with bleaching tank as per TE Std. Drawing with all necessary accessories like, Upstream inlet CI piping from septic tank, Downstream outlet RCC NP2 class piping up to surface storm water drains, CI pipes for filter chamber, CI valve, RCC pre-cast pit covers, steps, perforated pre-cast slabs etc., inlet chamber, Filter chamber, deluding chamber including earthwork in excavation in all type of soil including soft rock, backfilling with murrum or approved soil arranged by the contractor, disposal of surplus earth etc. complete as per drawings, specification and direction of Engineering-Charge (All materials including cement shall be supplied by the contractor, Brick Class lower than 5.0 shall not be used). - Upto 10 Nos. user	1	Nos	93,699.77	93,699.77
257	**DEMOLISHING AND DISMANTLING**				
258	**Brickwork**				
259	**Demolishing BRICKWORK** (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	2,098.92	20,989.20
260	**Demolishing BRICKWORK** (taking all necessary safety precautions) for all heights **above plinth level** including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	2,052.38	20,523.80
261	**RCC**				

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262	**Demolishing RCC WORK** (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	2,783.12	27,831.20
263	**Demolishing RCC WORK** (taking all necessary safety precautions) for all heights **above plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	2,781.94	27,819.40
264	**PCC**				
265	**Demolishing PLAIN CEMENT CONCRETE** work (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc. disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation and backfilling shall be paid separately under relevant items)	10	cum	2,098.65	20,986.50
266	**MISCELLANEOUS ITEMS (REFER TE SPECIFICATION)**				
267	**Sand Filling**				
268	Supplying and filling approved SAND of specified quality under floors, in foundations, plinths, tank foundations etc. for all depths and heights including cost of sand,royalties,transportation to site for all leads and lifts, including loading, unloading, spreading in layers of loose thickness not exceeding 150 mm,watering,ramming,compacting with mechanical compactors and/or other equipment to the specified levels to achieve 85% relative density as per IS:2720 Part XIV,including preparation of subgrade to the required slope, providing testing apparatus and testing the degree of consolidation all complete as per drawings, specifications and direction of Engineer-in-charge. The rates shall be inclusive of the cost of all labour,material,equipments etc. all complete .	100	cum	1,405.10	1,40,510.00
269	**SAND GRAVEL MIX**				
270	Supplying and filling sand gravel mix (1:1) with approved aggregate below road, RCC pavement, manholes, pits, foundations, bedding of UG piping etc. in layers of 150 mm loose thickness (maximum) including watering, ramming, rolling, compacting to achieve 85% relative density as per IS 2720 Part-XIV, quarrying, royalties, transportation, handling, etc. all complete as per drawings, specifications and directions of Engineer-in- Charge. (The rate shall be inclusive of the cost of all labour, material, equipment etc. all complete)	105	cum	2,013.04	2,11,369.20
271	**GROUTING WITH NON-SHRINKABLE COMPOUND**				
272	Providing and laying manually or by pumping at all positions a ready mix non-shrink cementitious grout of compressive strength specified below for specified works e.g. pipe support, base grouting of rotating equipment and other installation complete in all respects as per scope of work, detailed construction drawings , technical specifications and directions of the Engineer-In-Charge.				
273	Having compressive strength of 30 N/mm2 , Per bag of 25 Kg	100	Bags	3,240.58	3,24,058.00
274	Having compressive strength 45 N/mm2 , Per bag of 25 Kg	20	Bags	3,811.42	76,228.40
275	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains, SS trench of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.	7.5	m2	3,042.87	22,821.53
276	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, leve and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	13.5	cum	7,998.72	1,07,982.72
277	Providing and fixing factory made precast RCC **perforated drain covers**, having concrete of strength not less than M-25, of size 1000x450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos. cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of the Engineer-In-Charge.	515	EACH	1,156.27	5,95,479.05
278	**Borewell and recharge well**				
279	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job all complete as per drawing, direction of Engineer -in-charge, in all types of soil :	130	M	570.74	74,196.20
280	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge.	130	M	659.63	85,751.90
281	Providing and fixing Bail plug/ Bottom plug of required diameter to the bottom of pipe assembly of tubewell as per IS:2800 (Part-I) :150mm dia	3	EACH	659.63	1,978.89

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282	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	1,430.20	7,151.00
283	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	1,430.20	7,151.00
284	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	1,430.20	7,151.00
285	Gravel packing in tubewell construction in accordance with IS:4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of the Engineer-In-Charge.	3	cum	1,430.20	4,290.60
286	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS:4270, of reputed & approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size dia having minimum wall thickness 5.00 mm	5	M	1,603.49	8,017.45
287	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	60	M	659.63	39,577.80
288	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/ 3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS:8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	25	M	1,706.39	42,659.75
289	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of 150 mm diameter	1	Nos	201.24	201.24
290	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS:2800 (Part-I), including necessary bolts & nuts of required size complete 150 mm diameter.	1	Nos	1,859.68	1,859.68
291	Supply, Installation and commissioning of 1.5HP Borwell Submersible Pump	1	EACH	1,14,110.00	1,14,110.00
292	Supply and Installation of 3Cx10Sqmm Copper Flat Cable	200	M	410.00	82,000.00
293	**LANDSCAPING**				
294	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment).	335	cum	633.04	2,12,068.40
295	Fine dressing of the ground.	1105	M2	4.39	4,850.95
296	Providing & laying Selection no. 1 grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden and than rolling the surface with light roller make the surface smoothen and light watering the same maintenance for 30 days or more till the grass establish properly,as per direction of officer in charge	1105	M2	113.87	1,25,826.35
297	Conducting topographical ground/land survey in the specified area as shown in the tender drawings by conventional/GPS or any other standard method, covering details of physical features like Rivers, Nallahs, Lakes, Ponds, wells, pits, Forest, Trees, Roads, culverts, transmission lines, telegraph/ telephone and electric poles, underground or any other services, cross drainage works including	4220	M2	49.89	2,10,535.80
298	**GEO TECHNICAL INVESTIGATION (Z/02/0022)**				
299	Conducting soil investigation with boring including all field tests and laboratory tests, mobilization and demobilization of equipments & personnel etc. for soil investigation for each borehole location. complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of Reports & recommendations and supply of electronic files	5	Nos	71,500.00	3,57,500.00
300	**ANTI-TERMITE TREATMENT**				
301	Supplying chemical emulsion in sealed containers including delivery as specified in the Technical Specifications.				
302	Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	200	LITRE	191.79	38,358.00
303	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost o				

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304	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc. as per Techinal specifications and direction of engineering in charge: With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	80	METRE	26.98	2,158.40
305	Treatment of soil under floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the floor:				
306	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	250	SQM	220.80	55,200.00
307	Supply and installation 60mm dia GI pipe for column support of gate	15	M	1,600.00	24,000.00
308	Supply and installation 100mm dia MS pipe	15	M	1,840.00	27,600.00
309	Supply and installation 50mm dia MS pipe	15	M	875.00	13,125.00
310	Supply and installation of U-PVC pipes (working pressure 4 kg / cm²) Single socketed pipe 75 mm dia for weep holes	200	M	281.09	56,218.00
311	**Sub-Total Section C**				**3,94,72,321.89**
312	**SECTION-D [CATHODIC PROTECTION WORKS]**				
313	**CATHODIC PROTECTION SYSTEM**				
314	**Cathodic Protection system**				
315	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning & Monitoring of the temporary cathodic protection [TCP] system using galvanic anodes to protect the external surface of the pipeline against soil-side corrosion for minimum 2 year or till commissioning of permanent CP system whichever is later . All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard drawings and vendor list as attached with this tender and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	4,62,000.00	4,62,000.00
316	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning of permanent cathodic protection system for 40 years. The scope of work also includes post commssoning surveys and repair of coating/ rectification of cathodic protection system based on the post commissioning surveys. In additon to the same, AC Interference study on the pipelines to be performed and mitigation measures takes to the satisfaction of Owner/ CONSULTANT. All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard and vendor list attached and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	10,00,000.00	10,00,000.00
317	**Sub-Total Section D**				14,62,000.00
318	**SECTION-E [ELECTRICAL WORKS]**				
319	**ELECTRICAL**				
320	**SWITCH BOARDS / UPS SYSTEM/ PANEL**				
321	Supply , Installation, testing and commissioning of LT Switch-boards, AC UPS system with UPS Distribution board & Ni-Cd Battery banks , distribution boards, cubicles with electrical equipment, misc. electrical panels etc., including transportation from store/yard to site at the place of installation, unpacking, assembly, including mounting and wiring of loose parts supplied by equipment vendor, interconnection of shipping sections and requisite inter-panel wiring between shipping sections, including supply of all wiring materials, installation on foundations or fixing to wall or steel structures, aligning, levelling, grouting, including all labour and materials, as per approved drawings, specifications of this tender and directions of Engineer-in-Charge.				
322	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted MEDB	1	Nos	6,02,693.30	6,02,693.30
323	Supply , erection , termination , earthing and commissioning of wall mounted OLDB as per single line diagram of DT stations	1	Nos	1,13,746.60	1,13,746.60
324	Supply , erection , termination , earthing and commissioning of wall mounted ILDB as per Single line diagram of DT stations	1	Nos	1,07,042.10	1,07,042.10
325	Supply , erection , termination, earthing and commissioning of wall mounted SSDB as per Single line diagram of DT stations	1	Nos	1,00,299.10	1,00,299.10

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326	Supply , erection , termination , earthing and commissioning of wall mounted AC DB as per Single line diagram of DT stations	1	Nos	94,252.40	94,252.40
327	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 6 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of DT stations	1	SET	14,99,830.20	14,99,830.20
328	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for DT stations.	1	SET	15,40,000.00	15,40,000.00
329	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 1 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of RT stations	1	SET	2,75,000.00	2,75,000.00
330	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for RT stations.	1	SET	12,10,000.00	12,10,000.00
331	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted Emergency DB	1	Nos	2,20,000.00	2,20,000.00
332	Supply , erection , termination , earthing and commissioning of 32A, 4P, 25kA Auto Change-Over switch as per Single line diagram of DT station-JHARIA	1	Nos	38,500.00	38,500.00
333	**POWER AND CONTROL CABLE**				
334	Supply , laying , termination , erection and testing of 1.1 KV Power and control FRLS PVC Outersheath, XLPE insulated, armored Cables . Outdoor cable will be laid in buried cable trench and in Indoor cable will be laid in Cable trench by provision of Cable tray and supports inside the trench as per PTS - Electrical package P.017110 G 11077 E002				
335	3.5C x 95 sqmm AL FRLS XLPE	300	M	599.50	1,79,850.00
336	3.5C x 70 sqmm AL FRLS XLPE	300	M	495.00	1,48,500.00
337	3.5C x 50 sqmm AL FRLS XLPE	50	M	392.70	19,635.00
338	3.5C x 25 sqmm AL FRLS XLPE	100	M	293.70	29,370.00
339	4C x 16 sqmm CU FRLS XLPE	100	M	959.20	95,920.00
340	3C x 2.5 sqmm CU FRLS XLPE	170	M	228.80	38,896.00
341	3C x 6 sqmm CU FRLS XLPE	250	M	287.10	71,775.00
342	4C x 6 sqmm CU FRLS XLPE	350	M	357.50	1,25,125.00
343	2C x 6 sq.mm CU FRLS XLPE	100	M	262.90	26,290.00
344	2.5 sqmm Cu. Wire	1800	M	42.90	77,220.00
345	6 sqmm Cu. Wire	600	M	78.10	46,860.00
346	**Earthing & Lightning**				
347	Supply , Installation , testing and comissioning of GI Earth electrodes & Cu plate type earth pit complete with earth pit as per IS 3043, PTS-Electrical package and all necessary material including exacavation of earth pit , filling with charcol and salt , back filling, brick work , connections including all labour and materials as approved drawing and specification of this tender and direction of Engineer-In charge.				
348	GI Earth Electrodes				
349	65mm dia x 3000 mm L GI pipe electrode type Earth pit	17	Nos	17,574.70	2,98,769.90
350	**Cu plate Earth Electrode**				

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351	600x600x3mm Cu plate type Earth pit	8	Nos	19,916.60	1,59,332.80
352	**Earth strip and wire**				
353	50x 6 mm GI Flat strip	850	M	283.80	2,41,230.00
354	25 x 6 mm Cu Flat strip	50	M	679.80	33,990.00
355	2.5 Sqmm Cu wire	250	M	38.50	9,625.00
356	25 x 6 mm GI Flat strip	200	M	207.90	41,580.00
357	10 Sq.mm earthing cable	250	M	122.10	30,525.00
358	GI Earth Bus 50x 6 Sq.mm with all installation assesories	3	Nos	1,485.00	4,455.00
359	Cu. Earth Bus 50x 6 Sq.mm with all installation assesories (in control room)	4	Nos	2,420.00	9,680.00
360	25x3 mm GI Flat for Lightning as well as down conductors for DT station as per overall earthing layout and GGNG-E-20713-3007	80	M	174.90	13,992.00
361	Other lightning assesories like 20mm dia copper rod, hollosphere ,200x200x6mm ms plate ,anchor/fastner ,test links for DT station as per overall earthing layout and GGNG-E-20713-3007	1	LOT	57,022.90	57,022.90
362	**OUTDOOR Lighting**				
363	Supply , erection , Testing & commissioning of Outdoor area lighting system including with supply of flameproof / weather proof light fixture , pole , junction box and earthing including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender & Overall outdoor lighting layout of DT & RT station and directions of Engineer- In charge.				
364	100W FLP LED Fixture & FLP Junction box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	4	Nos	23,650.00	94,600.00
365	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	2	Nos	1,28,064.20	2,56,128.40
366	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in RT Stations.	7	Nos	1,28,064.20	8,96,449.40
367	1x160W FLOOD LED Fixture with weather proof junction box & 9 mtr high pole with all assesories for open area	6	Nos	37,491.30	2,24,947.80
368	1x70 W Solar type Street LED Fixture with weather proof junction box, VRLA Battery (72 hrs backup time) & 9 mtr high pole for street lighting	4	Nos	1,15,175.50	4,60,702.00
369	1x27 W Post Top Lantran LED Fixture for Gate with weather proof junction box for Gate lamp	2	Nos	10,850.40	21,700.80
370	1x36 W LED industrial fixture suitable to building parapet /wall with all assesories like weather proof junction box/clamp/reducer/	2	Nos	10,322.40	20,644.80
371	**INDOOR Lighting**				
372	Supply, erection, Testing & commissioning of Indoor building area lighting system including with supply of light fixture, point wiring including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender and directions of Engineer- In charge.				
373	2x20 W LED recessed decorative fixture for control room	5	Nos	5,597.90	27,989.50
374	2x20W LED Industrial Fixture for Electrical room	2	Nos	4,692.60	9,385.20
375	1x40W LED Flameproof Fixture for Battery room	1	Nos	21,714.00	21,714.00
376	2x18W LED Industrial Fixture for Varanda/Toilet/ water cooler area/ Guard room	6	Nos	3,867.60	23,205.60

S. NO.	ITEM DESCRIPTION	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
				UNIT RATE	TOTAL RATE
377	1x36W LED Industrial Fixture	4	Nos	3,173.50	12,694.00
378	2x20 W LED recessed decorative fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) control room.	2	Nos	13750	27,500.00
379	2x20W LED Industrial Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Electrical room	2	Nos	11,550.00	23,100.00
380	1x40W LED Flameproof Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Battery room	1	Nos	24,750.00	24,750.00
381	**Switch socket**				
382	Supply and Installation of single/ three phase Switch socket as per Indoor Illumination layout for DT & RT and PTS-Electrical Package and directions of Engineer-In Charge				
383	5/15A surface type switch socket (1 Ph)	7	Nos	1,751.20	12,258.40
384	5A flush type switch socket (1 Ph)	4	Nos	1,387.10	5,548.40
385	16A Switch socket (I Ph)	3	Nos	1,641.20	4,923.60
386	20A Switch socket for AC (1 Ph)	4	Nos	1,650.00	6,600.00
387	Flame proof Junction box for Exhaust fan in Battery room	2	Nos	3,870.90	7,741.80
388	32A Switch socket for welding receptacles (3 Ph)	1	Nos	7,371.10	7,371.10
389	Modular switch board	12	Nos	1,161.60	13,939.20
390	**FANS and Exhaust FAN**				
391	Supply ,Installation and testing of Ceiling Fan and Exhaust fan with louvers including all labours and materials as per Indoor Illumination layout for DT and PTS-Electrical Package and directions of Engineer-In Charge				
392	Ceiling Fan 230V AC 1200 mm sweep	3	Nos	2,576.20	7,728.60
393	450 mm FLP Exhaust Fan for Battery room	2	Nos	22,557.70	45,115.40
394	200 mm Exhaust Fan for Toilet	1	Nos	2,941.40	2,941.40
395	300 mm Exhaust Fan for Electrical room/ CO2 room	3	Nos	4,404.40	13,213.20
396	**Air conditioning unit**				
397	Supply ,Installation and testing of Five star 1.5 Ton Split AC with outdoor compressor unit including all labours and materials as per Typical Indoor Illumination layout for DT and directions of Engineer-In Charge				
398	Split Air condition Five star 1.5 Ton	4	Nos	62,547.10	2,50,188.40
399	**Hardware and other Accessories**				
400	Supply and Installation of Hardware and other accessories including all labours and materials as per Tender specification PTS-Electrical Package P.017110 G 11077 E002 and directions of Engineer-In Charge				
401	Rubber mat	15	M	2,296.80	34,452.00
402	Rubber hand gloves	1	PAIR	2,570.70	2,570.70

S. NO.	ITEM DESCRIPTION	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
				UNIT RATE	TOTAL RATE
403	Warning Marker	1	Nos	1,659.90	1,659.90
404	PVC Conduit with bend ,tee and other required assesories	1	LOT	1,10,498.30	1,10,498.30
405	CAUTION Board & Sock treatment chart	1	Nos	2,912.80	2,912.80
406	Cable route marker as per Standard drawing TE-IN-STD-G-0327	1	LS	62,667.00	62,667.00
407	Fire extingusher and SAND Bucket with Stand	1	SET	41,098.20	41,098.20
408	Ladder type Cable tray - hot dip Galvanized Prefabricated 450 mm wide	55	MTR.	1,402.50	77,137.50
409	Perforated type Cable tray hot dip Galvanized Prefabricated 450 mm wide	35	MTR.	1,698.40	59,444.00
410	Cable Glands				
411	Cable Glands : Flame proof IIA/IIB double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
412	Cables with upto OD 20 mm & above OD 20 mm as per Single line diagram of DT & RT station	1	LOT	97,276.30	97,276.30
413	Cable Glands : Weather proof double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge				
414	Cables with upto OD 20 mm to 40 mm as per Single line diagram of DT & RT station	1	LOT	75,028.80	75,028.80
415	**Sub-Total Section E**				**1,06,48,833.80**
416	**SECTION-F [INSTRUMENTATION WORKS]**				
417	**INSTRUMENTATION**				
418	**SUPPLY**				
419	Supply of Pressure Transmitter along with 2 valve manifolds with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	58,666.30	2,93,331.50
420	Supply of Pressure gauge including high range along with 2 valve manifolds with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	18	Nos	13,975.50	2,51,559.00
421	Supply of Pressure gauge including Low Range along with 2 valve manifolds, gauge saver with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	3	Nos	11,687.50	35,062.50
422	Supply of temperature element (RTD) along with flanged thermowell mounted for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	14,153.70	70,768.50
423	Supply of Temperature Transmitter with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	7	Nos	37,537.50	2,62,762.50
424	Supply of skin type temperature element (RTD) for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I003), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	2	Nos	14,824.70	29,649.40

S. NO.	ITEM DESCRIPTION	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
				UNIT RATE	TOTAL RATE
425	Supply of Local control panel with all accessories as per Data sheet (P.017110 G 11087 I011), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, SAT of local control panel,supports/ frame fabrication, earthing and screwing plug for unused entries, painting and integration with RTU. Termination of all Other panel SCADA hard wired signal including RS-485 signals through LCP for RTU/SCADA by Bidder. 1. Digital Barriers 2. Analog Barrier	2	Nos	4,73,366.30	9,46,732.60
426	Supply of Ex-proof junction box with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, iincluding Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.	4	Nos	21,175.00	84,700.00
427	Supply of Corrosion Monitoring system with corrosion coupon, Corrosion probe, transmitter and digital indicator (mounted in LCP) as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
428	Corrosion coupon along with accessories.	2	Nos	69,263.70	1,38,527.40
429	Corrosion probe along with transmitter, digital indicator, barriers and accessories.	2	Nos	4,21,850.00	8,43,700.00
430	Supply of Conventional Type Microprocessor based fire detection system along with smoke detector, heat detector, cabinet, manual call point, Independent 24 Hrs battery backup with 15 min in alarm state, repeater panel and Electrical Operated Siren, exit signs and cables fromsensor ,MCP, siren, hooter to controller as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
431	Controller along with cabinet along with cabling	1	Nos	1,08,900.00	1,08,900.00
432	Multisensor (smoke & heat)	10	Nos	4,510.00	45,100.00
433	WP IP 65 Manual call points	6	Nos	4,070.00	24,420.00
434	Ex Proof and WP IP 65 Manual call point	1	Nos	16,844.30	16,844.30
435	WP Hooter & Flasher	1	Nos	8,525.00	8,525.00
436	Repeater panel	1	Nos	61,086.30	61,086.30
437	Exist sign	6	Nos	11,577.50	69,465.00
438	Electrical siren Exd	1	Nos	35,887.50	35,887.50
439	24 Hrs battery backup	1	Nos	5,857.50	5,857.50
440	Supply of Conventional type gas detection system along with controller, ex proof point gas detectors, beacon hooter, flasher, , cabinet, portable gas detector, calibration kit, alignment kit as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.				
441	Controller with cabinet	1	Nos	4,15,250.00	4,15,250.00
442	Point gas detectors	12	Nos	1,29,250.00	15,51,000.00
443	Panel Mounted hooter	2	Nos	8,525.00	17,050.00
444	Dual tone Hooter & Beacon Ex"d" with reset push button	2	Nos	21,862.50	43,725.00
445	Portable gas detecotrs	1	Nos	65,450.00	65,450.00
446	Calibration kit	1	Nos	2,33,786.30	2,33,786.30
447	Ex d Junction Box	2	Nos	25,784.00	51,568.00

S. NO.	ITEM DESCRIPTION	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
				UNIT RATE	TOTAL RATE
448	Supply of Universal type Hand Held Configurators for transmitters with carrying case, rechargeable batteries (one working and one standby), and battery charger as per Data sheet,PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work	1	Nos	6,23,333.70	6,23,333.70
449	Supply of Instrumentation signal cable, control cable, communication cable/LAN cable, Power cables along with all sizes cable glands (WP & Exd), PVC hood, lug, ferrule, etc including Cable laying (buried as well as tray) along with termination, glanding, meggering and loop checking including supply of ferrule, lugs, cable tie, cable clamp, cable marker etc. as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.				
450	1Px 1.5mm2	500	MTRS.	145.20	72,600.00
451	12Px 0.5mm2	900	MTRS.	536.80	4,83,120.00
452	1Qx1.5mm2	30	MTRS.	192.50	5,775.00
453	12Tx1.5mm2	200	MTRS.	862.40	1,72,480.00
454	1Tx1.5mm2	180	MTRS.	176.00	31,680.00
455	6Px0.5mm2	200	MTRS.	381.70	76,340.00
456	2Px1.5mm2	200	MTRS.	149.60	29,920.00
457	Cat 5 (LAN)	160	MTRS.	146.30	23,408.00
458	3C x 2.5mm2	240	MTRS.	225.50	54,120.00
459	Supply & laying of Instruments cable tray with tray cover (Branch Cable tray (50mm x 50mm), Main cable tray 900 mm, cable tray 300mm, cable tray 150 mm.) as per requirement, instruments/ PGD, CCTV/ mounting poles, instrument protection sun sheds, angles, channels, MS plates & all the erection materials and as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including installation of support, cable clamping, installation of tray cover and support painting.	1	LS	4,43,025.00	4,43,025.00
460	Supply , installation & laying of tubes and fittings as per requirement and as per PTS-Instrumentation with appendices and Scope of Work C&I. SS 316L TEE (1/2”, Class 3000#, Screwed, NPTF, Seamless) ,SS316L GLOBE/BALL VALVE (1/2”, Class 800#, Screwed, NPTF, Seamless), SS316L PLUG (1/2”, Screwed, NPTM, Hex head, class 3000#), SS316L PIPE NIPPLE (½” NPTM, seamless, schedule #160) Length of the pipe nipple as per requirement, SS316L MALE CONNECTOR (1/2" OD x 1/2" NPTM), SS316L FEMALE CONNECTOR (1/2”OD x 1/2” NPTF), SS316L UNION (1/2” OD), SS316L TUBE (1/2" OD x 0.065" WT), SS316L TUBE (1/4" OD x 0.035" WT)	1	LS	8,74,225.00	8,74,225.00
461	Supply of mandatory spares as per Mandatory Spare (P.017110 G 11075 I001)	1	LS	1,10,000.00	1,10,000.00
462	AT Jharia - Installation of metering skids, metering cabinet under the supervision of skid supplier, cable laying and terminal of cable from skid junction box to metering system cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	4,08,925.00	4,08,925.00
463	At Jharia Installation of gas chromatograph skid, analyser & controller cabinet under the supervision of skid supplier, cable laying and terminal of cable from analyser cabinet to controller cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	4,08,925.00	4,08,925.00
464	At Jharia Installation of H2S & Moisture analyser skids, cabinet under the supervision of skid supplier, laying and terminal of cable from skid field mounted cabinet to LCP/RTU. Including supply of all the required erection, fabrication and civil materials.	1	LS	2,98,925.00	2,98,925.00
465	At SV 28 Spare Input output available in existing RTU, internal wiring at site, field connection, configuration and commissioning., interfacing with LCP and configuration of new parameters in existing RTU, as per Scope of Work.	1	LS	1,10,000.00	1,10,000.00
466	**Sub-Total Section F**				**99,37,510.00**
467	**SECTION-G [TELECOM WORKS]**				

S. NO.	ITEM DESCRIPTION	UNIT	QTY	PRICES INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR	
				UNIT RATE	TOTAL RATE
468	Supply Telecommunication system, SDH equipment STM-4 Based SDH Cabinet of (2000H x 800W x 800W along with 100 mm base frame) as per below configuration: - 2*STM-4 + 2*STM-1 + 8FE ports as per PTS-Telecommunication system (P.017110 G 11077 I002), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including erection, testing, integration with existing NMS at Noida, Commissioning and integration with existing telecom system at SV 28 additional SFP of L4.2 for SV 28 connectivity	1	Nos	2,75,000.00	2,75,000.00
469	Supply of CCTV-IP based Fixed colour camera and PTZ colour camera along with power cable, communication cable at each station as per PTS-Telecommunication system (P.017110 G 11077 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work., including erection, testing, integration with existing VMS at Noida, Commissioning and integration with existing telecom system at SV 28				
470	Fixed Camera WP IP65	1	Nos	15,400.00	15,400.00
471	PTZ camera WP IP65	1	Nos	19,800.00	19,800.00
472	Supply of one Analog phones control room, one number in guard room and one number WP IP66 in field safe area as per PTS-Telecommunication system (P.017110 G 11077 I002) , PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work				
473	Analog Phone	2	Nos	4,400.00	8,800.00
474	Analog Phone Ex Proof WP IP 65	1	Nos	8,800.00	8,800.00
475	FXO cards	1	Nos	7,700.00	7,700.00
476	FXS	1	Nos	7,700.00	7,700.00
477	Five pair armoured telephone cable, size 0.5mm2	100	MTR.	143.00	14,300.00
478	AT Jharia- Free issue RTU by GAIL: Transportation from Gail store to site location, installation, cabling from LCP to RTU, commissioning etc. Erection, installation of RTU inside the station control room including supply of all the required erection materials, fabrication and civil works	1	LS	1,10,000.00	1,10,000.00
479	At SV 28 Spare Input output available in existing RTU, internal wiring at site, field connection, configuration and commissioning., interfacing with LCP , cable laying from LCP to RTU, and configuration of new parameters in existing RTU, as per Scope of Work.	1	LS	1,10,000.00	1,10,000.00
480	**Sub-Total Section G**				**5,77,500.00**
	Total of Section A + B + C + D + E + F + G				**11,65,80,733.39**
479	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Total of Section A + B + C + D + E + F + G above	18	percentage		2,09,84,532.01
480	Rate of Extended Stay Compensation per month beyond the time schedule and grace period mentioned in Bidding document for reasons solely attribute to Owner (exclusive of GST) Notes:- 1;- Extended Stay Compensation shall be loaded on the quoted price as per evaluation methodology. 2;- In case, no rate for extended stay compensation is stipulated, it will be considered that extended stay compensation is not required by the Bidder and the rates quoted by them shall be valid till completion of works in all respects.	1	Nos		23,61,300.00
481	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Extended Stay Compensation at Sl. No. 480 above	18	percentage		4,25,034.00
	Grand Total				14,03,51,599.40

TRACTEBEL ENGIE	**ANNEXURE- IV** **COMPARISON OF L1 BIDDER'S PRICE WITH TRACTEBEL COST ESTIMATE FOR LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A** **TENDER ID: 2021_GAIL_99100_1** **TENDER REFERENCE NO.: P.017110 G 11031 R010**			**PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL** **Owner- GAIL (INDIA) Ltd.**	**Rev.00** **Date-11.02.2022** **Price Bid Opened on-07.02.2022**
Sl. No.	**DESCRIPTION**	**L1 bidder Price (INR)**	**Tractebel Cost Estimate (INR)**	**Name of L1 bidder**	**% Variation with Tractebel Estimate [(L 1 Bidder Price - Tractebel Cost Estimate)/ Tractebel Cost Estimate)]**
1	Total Evaluated price for complete scope of work exclusive of GST.	22,28,40,120.00	27,07,14,863.21		
2	Extended Stay compensation for one month	0.00	23,61,300.00		
3	Total Evaluated prices exclusive of GST	22,28,40,120.00	27,30,76,163.21		
4	GST (CGST & SGST / UTGST OR IGST) @ 18% on total amount mentioned at S.No. 3 above.	4,01,11,221.60	4,91,53,709.38		
5	Total Evaluated prices including Goods & Service Tax (GST)	26,29,51,341.60	32,22,29,872.59	**M/s. AMP INFRA PVT. LTD.**	-18.40%

Prepared

Checked(C&P)

Checked (Finance)

Approved(Project Manager)

TRACTEBEL ENGIE	ANNEXURE- IV COMPARISON OF L1 BIDDER'S PRICE WITH TRACTEBEL COST ESTIMATE FOR LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010			PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL Owner- GAIL (INDIA) Ltd.	Rev.00 Date-11.02.2022 Price Bid Opened on-07.02.2022
Sl. No.	**DESCRIPTION**	**L1 bidder Price (INR)**	**Tractebel Cost Estimate (INR)**	**Name of L1 bidder**	**% Variation with Tractebel Estimate [(L 1 Bidder Price - Tractebel Cost Estimate)/ Tractebel Cost Estimate)]**
1	Total Evaluated price for complete scope of work exclusive of GST.	10,28,49,057.00	11,65,80,733.39		
2	Extended Stay compensation for one month	7,20,000.00	23,61,300.00		
3	Total Evaluated prices exclusive of GST	10,35,69,057.00	11,89,42,033.39		
4	GST (CGST & SGST / UTGST OR IGST) @ 18% on total amount mentioned at S.No. 3 above.	1,86,42,430.26	2,14,09,566.01		
5	Total Evaluated prices including Goods & Service Tax (GST)	12,22,11,487.26	14,03,51,599.40	**M/s. ZAK Venture Pvt. Ltd.**	-12.92%

Prepared | Checked(C&P) | Checked (Finance) | Approved

TRACTEBEL engie	ANNEXURE - V DETAILS OF AHR ITEMS FOR LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010					PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL Owner- GAIL (INDIA) Ltd.	Rev.00 Date-11.02.2022 Price Bid Opened on-07.02.2022
Sl. NO.	**ITEM DESCRIPTION**	**UNIT**	**QTY**	**UNIT PRICE INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR**			**AHR ITEMS**
				UNIT PRICE-L1 BIDDER	**UNIT PRICE-TRACTEBEL**		
1	**SECTION-A (MAIN LINE WORKS)**						
2	**CH.0.00 KM to CH.23.436 KM**						
3	**MAINLINE, PIPING AND MECHNICAL**						
4	**PIPELINE LAYING / INSTALLATION** Laying/ installation of coated line pipe, associated fittings and accessories, etc. as per specifications, drawings, other provisions of Contract and instructions of Engineer-in-Charge, including but not limited to carrying out the following: "Receiving and taking-over", handling, loading, transportation and unloading of Owner supplied coated and bare line pipes and other Free Issue Materials from Contractor's own stock-yard to Work site including stringing on the pipeline Right-of-Use (ROU), Arrangement of all additional land required for Contractor's storage, Performing the additional survey wherein survey data is not sufficient in the opinion of Contractor, arrangement of working RoU if RoU width is not sufficient for equipment/ vehicle movement etc., access for construction (other than Owner provided ROU; Developing necessary access way to the worksite, including earth filling, levelling, etc.; supply of all materials (except Owner supplied materials), supply of all materials, consumables, equipment, labour, etc.; fabrication, Staking and installation of construction markers, clearing, grubbing, grading (as required) of Right of Use; clearing and grading of ROU; Cutting/ uprooting of shrubs, plants, vegetation within ROU; , Trenching to all depths and to a width to accommodate the pipeline with optical fiber cable (inside HDPE Duct) by excavation in all types of soil (in case of hard rock, additional payment for hard rock breaking will be paid as per separate SOR line item), including additional trenching for seismic and other areas as specified,(Rate for laying of optical fibre cable and HDPE Duct not be included here and same to be quoted against separate SOR item); Carrying out repairs of pipe and coating defects not attributable to Owner; Thorough internal cleaning of all pipes by suitable methods to remove debris, shots, grits etc.; Stringing of line pipes along ROU including providing straw bags, soft padding/sand padding; Aligning, cold field bending, cutting and beveling (as required) of pipes for welding and field adjustments, NDT & NDT of re-beveled area, welding, carrying out destructive & non- destructive testing of welds required as per approved NDT specifications (including radiography) and providing all requisite equipment, labour, supervision, materials, films, consumables etc.; carrying out repairs of weld joints as required, carrying out re-radiography and other non-destructive tests on repaired joints, etc.; Installation of carrier pipe including concrete coated pipes (wherever required),						
5	(Concrete Coating on pipes, covered separately) at all crossings including roads/ canals/ nala/ water crossings etc. (supply and installation of casing pipe by open cut or by Jacking/ boaring method covered separately) including pre-testing as required; Carrying out installation of carrier pipe in the casing pipe at cased crossings; Coating of all field weld joints, long radius bends (fabrication of Cold field bends covered here and fabrication of 6D bends by induction heating covered separately), buried fittings etc.; Supply & Installation of warning tape along the entire length of Pipeline including Crossing. Lowering the pipelines in trench, providing required padding over and around the pipeline with sand/graded material (in rocky areas), backfilling with available approved excavated material and/or other suitable soil (supply and providing of soft soil for pre & post padding in Rocky area); Supply and installation of slope breaker as per specifications and drawings in steep slope areas, wherever required; Carrying out hydrostatic testing including air cleaning, flushing, filling, gauging, pressurization of complete pipeline in various test sections as approved by Engineer-In-Charge to the specified test pressure, providing all equipment, pumps, fittings, instruments, dead weight tester, all types of pigs etc., and services, supervision, labour, consumables, arranging water required for hydrostatic testing including supply of corrosion inhibitor, air, etc. as required, locating of leaks and rectification of defects attributable to Contractor, re-testing after rectification, successful completion of hydro-testing of pipeline (De-watering covered else where in the SOR); including all tie-in(s) with the pipeline/ piping installed by others including cutting of test header, re-beveling as required; Carrying out all temporary, ancillary, auxiliary works and all incidental works required to make the pipeline ready for pre-commissioning; Carrying out EGP for the entire stretch of completed pipeline, Repair of defects recorded during EGP/gauge plate run or otherwise including cutting, beveling, welding, NDT, field joint coating etc.; as applicable, Final clean-up and restoration of right of use including obtaining NOC from respective statutory authorities as required and disposal of debris and returning all surplus material to designated disposal areas/storage yard, as directed by Engineer-In-Charge; Restoration of land, facilities and boundary wall etc. at associated facilities dismantled/damaged by the Contractor during construction; Obtaining work permits/ NOC from various statutory authorities having jurisdiction and complying with all stipulation/conditions/recommendation of the said authorities; Preparation of as-built drawings, pipe-book and other records. SOR shall be read in conjunction with Project drawings, scope of work, specifications, standards and other provisions of contract document. The work includes the Survey data & site preparation, Stringing/Chainges in direction, Beveling of pipe element, Welding Procedure Qualification & Welders Qualification, Welding of pipe element, Inspection & testing of production welds, Field joint coating, controlled blasting, chiseling, etc., Material hand over & material handling, Lowering-in & ballasting, All crossings except HDD as mentioned in Crossing List (including installation of carrier pipe inside the Casing at cased crossing) , Backfilling (for all depths in all types of soil, soft /hard rock) , including trench padding with sand, graded earth in rocky areas & rock shield(if required as per specs) reinstatement (restoration) and preparation of As-built Alignment & Crossing drawings.						

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TRACTEBEL engie	ANNEXURE - V DETAILS OF AHR ITEMS FOR LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010					PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
						Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

Sl. NO.	ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR			AHR ITEMS
				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL		
6	All above works shall be executed in accordance with scope of work, GTS, PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. 1. Supply and Installation of OFC and HDPE Ducts along the entire pipeline route, adjacent to the new pipeline, along with all required accessories, fittings and associated items, is covered separately in the SOR. All above works for buried pipeline (including hook-up pipeline from Tap Off Point inside ONGC GCS, Bokaro upto proposed plot for GAIL DT), as per following details :						
7	ND12", API5L X70 - 6.4 mm	6500	M	2,800.00	3,359.84	-16.66%	
8	ND12", API5L X70 - 7.1 mm	15850	M	2,800.00	3,630.00	-22.87%	
9	ND12", API5L X70 - 8.7 mm	150	M	2,800.00	3,882.00	-27.87%	
10	**Concrete slabs (Mechanical Protection) as per technical specifications** Supply, fabrication and installation of reinforced concrete weights. Reinforced steel size should be 8 mm. top and bottom at a rate of 200 mm c/c of precasted RCC 1:2:4 on pipeline of wall thickness of 75 mm thick and size as per specifications & Standard drawings and instructions of Owner/ Owner's representative including supply of consumables, materials, equipment, labor, supervision, all associated civil works.	382	M	2,800.00	1,852.00	51.19%	AHR
11	**Continuous Concrete Coating** Supply of all consumables and materials, equipments, manpower, submission of application procedure with calculations for anti-buoyancy, design mix procedure qualification and application of continuous concrete weight coating thickness mentioned below (higher also, in case design requirements) on pipeline of all thickness, concrete weight coating of the field joints thereof, and performing all works as per specifications and instructions of Owner/Owner's representative and other provisions of CONTRACT DOCUMENT.						
12	35 mm thick	12	M	5,500.00	2,410.98	128.12%	AHR
13	50 mm thick	12	M	5,500.00	3,444.00	59.70%	AHR
14	**GEO TEXTILE BAGS FOR ANTI-BUOYANCY**						
15	Additional works over and above item no. 4 to 9 for design, manufacture and supply of Non-biodegradable geo-textile bags and installation of geo-textile bags duly filled with gravel/ stone ballast on pipelines of all wall thicknesses for anti-buoyancy, drawings, scope of work and instructions of Engineer-in-Charge and other provisions of the Contract document. Note: This item shall be applicable for Some crossings as per instructions of Engineer-incharge.						
16	ND12" (for all thicknesses)	12	M	5,000.00	2,200.00	127.27%	AHR
17	**Permanent Markers** Supply, fabrication and installation of following types of permanent markers along the pipeline route including all associated civil works such as excavation in all types of soil, construction of pedestals and grouting with concrete, clearing, supply & application of approved color and quality of primer and paint, stencil letter cutting for numbers, direction, chainage, etc. restoration of area to original condition and performing all works as per drawings, specifications and instruction of Owner/Owner's Representative.						
18	Pipeline Warning Signs	35	Nos	5,600.00	3,135.00	78.63%	AHR
19	Right-of-way boundary markers	94	Nos	1,200.00	1,650.00	-27.27%	
20	Kilometer Markers	19	Nos	5,600.00	3,732.00	50.05%	AHR

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				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL		
21	Aerial Markers	4	Nos	5,600.00	15,180.00	-63.11%	
22	Navigable Waterway Markers	8	Nos	5,600.00	22,140.00	-74.71%	
23	Directional Markers	297	Nos	4,000.00	3,765.00	6.24%	
24	**Repair of Defects in Pipe Coating (Attributable to OWNER)**						
25	**Repair of Line Pipe Coating:** Supply of all coating repair materials as per the requirements of the relevant specifications, supply of all consumables, utilities, equipment, and all manpower required, pipe cleaning and surface preparation, repairing of coating defects (resulting in holiday in coating) and testing including all handling, transportation, etc. for line pipes, performing all works necessary for the completion of the works strictly in accordance with the relevant specifications and instructions of OWNER.						
26	**Repair of Holidays in Coating**	40	Nos	1,000.00	958.00	4.38%	
27	Repair of Cosmetic Defects in Coating: Description of same as in 25 above, but for repair of cosmetic defects in coating.	80	m2	1,000.00	2,319.00	-56.88%	
28	Repair of Defects in Line Pipes						
29	Repair of OWNER supplied pipes of all wall thicknesses, recorded at the time of taking-over by CONTRACTOR at all places of work.						
30	Cutting and rebevelling	25	Nos	1,000.00	3,469.00	-71.17%	
31	Jack out method	25	Nos	1,000.00	3,469.00	-71.17%	
32	All works for locating burst (occurred during hydrostatic testing and tightness test attributable to Owner issued materials) including detecting burst, necessary repairing/replacing defective pipe lengths, including cutting out and removing the defective pipe, pretesting the replacement pipe, welding of replacement pipe into mainline and NDT of welding, repair and re-testing of defective welds, coating of welded joints, cleanup, retesting including providing all labor, materials, consumables and inputs other than OWNER supplied materials and performing all works as per drawings, specifications and directions of Owner/ Owner's representative. In case of pinhole leaks not easily detectable all works for locating leak (occurred during mechanical resistance test and tightness test attributable to Owner issued materials) including detecting leak, The Payment will be made as per actual efforts and based on Equipment and manpower Rate provided in SCC . Further replacement & retesting will be paid as above.	2	Per burst	10,000.00	1,49,545.00	-93.31%	
33	**LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER) (FOR TERMINAL PIPING)** **LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER DUE TO FIM)** All works for leak/burst (occurring during hydrostatic testing) by necessary repair/replacement of defective pipe length, including cutting and removing out defective pipes, welding, NDT of welds, repair and re-testing of defective welds, painting of welded joints, clean-up, re hydro testing of the pipe segment including providing all necessary equipment, labour, materials, consumables and inputs other than Owner supplied materials and performing all works as per drawings, scope of work, specifications, standards enclosed with the Contract and directions of Engineer-in-Charge. Note: 1. This rate shall be applicable for manufacturing defects in Company supplied materials only.	18	Inch-meter	1,000.00	1,036.00	-3.47%	

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				UNIT PRICE-L1 BIDDER	**UNIT PRICE-TRACTEBEL**		
34	**IDLE TIME PRESERVATION OF PIPELINE** Preservation of complete pipeline and associated facilities and its maintenance including supply of all consumables, all equipment, man- power, etc., complete as per the requirements of specifications, scope of work, standards, other provisions of Contract document and instructions of Engineer-in- Charge. By filling and pressurizing with nitrogen including supply and maintenance of nitrogen as per following details:						
35	Pipe OD - 12 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - 3 MONTH	23800	M	40.00	27.00	48.15%	
36	Pipe OD - 12 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - FOR EVERY ADDITIONAL MONTH BEYOND INITIAL 3 MONTHS	23800	M	40.00	27.00	48.15%	
37	PRE-COMMISSIONING FOR NATURAL GAS PIPELINES SYSTEM, Carrying out pre-commissioning activities and pre-commissioning checks to the specified acceptance criteria, making the entire pipeline system ready for commissioning (It includes cleaning including magnetic cleaning, Electrical Geometrical Pigging survey, dewatering, swabbing,, pre-drying activity, Golden-tie ins connecting the stations),, supply of all equipment, man-power, consumables, including all type of pigs and required quantity of nitrogen, materials for all temporary works and performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.						
38	Pipe OD - 12 INCH	23800	M	20.00	42.00	-52.38%	
39	**Commissioning Assistance**						
40	**OVERALL COMMISSIONING OF ENTIRE PIPELINE SYSTEM** Overall commissioning including system checks, inertisation (as required) and charging of entire pipeline system, including all stations and all associated facilities including notifying the Company that the pipeline system is ready for commissioning; Review of status jointly with the Company and obtaining final clearance for start of commissioning; Development and submission of commissioning procedures, obtaining Company approval thereupon, carrying out overall commissioning of the total pipeline system including all facilities and all necessary coordination/ liaison with other Contractor(s) operations; Carrying out commissioning; Supply of all equipment like Nitrogen vapourisers (as required), along with all piping and instruments, temporary venting/ flaring/draining facilities as applicable, man-power, consumables including pigs and required quantity of Nitrogen (as required); Performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.						
41	Pipe OD - 12 INCH	23800	M	20.00	33.33	-39.99%	
42	PIPELINE INFORMATION MANAGEMENT SYSTEM Providing pipeline information management system using web based software for monitoring pipeline construction progress and providing all "As Built" data & drawings for entire length of pipeline as per specifications enclosed with the tender document.	1	LS	10,00,000.00	15,00,000.00	-33.33%	
43	VIDEO FILM & PHOTOGRAPHY OF CONSTRUCTION ACTIVITIES Preparation of high resolution video films with audio commentary and Industrial photography covering all aspects/activities of pipeline construction annotated as required, conversion of same to video DVD/Blue Ray format, submitting three (3) sets of the same as per details in scope of work document	1	LS	5,00,000.00	2,91,931.01	71.27%	**AHR**
44	**FABRICATION OF LR BENDS :**						

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				UNIT PRICE-L1 BIDDER	**UNIT PRICE-TRACTEBEL**		
45	Fabrication of 6D bend / LR (Induction) bends as per the relevant standard & Specification attached with the tender document from free issue linepipes (mother pipe) including but not limited to the following: "Receiving and taking over of free issue linepipes" from GAIL Dump Yard location as mentioned in Scope of Work, carrying out inspection of line pipe at the time of receive taking over in the presence of Company representative, carrying out repair of pipe defects attributable to Contractor after taking over, including supply of consumables & equipments; handling, hauling, transportation and loading/unloading required to transport the mother pipes between place of issue, LR bend fabricator/ manufacturer, intermediate storage as required, and final delivery of fabricated LR Bends to the worksite(s), as per requirement, Manufacturing/ fabricating of LR Bends, as per project requirements and Specifications. LR bends exact angle(s) shall be as per pipeline alignment. Note:- 1. Rate for repairing of defects in linepipes identified and recorded at the time of receiving & taking over i.e. defects attributable to Company shall be quoted separately in the applicable items of the SOR. 2.Loading of Pipe into installation contractor trailer shall be carried out by the GAIL Dumpyard maintenance agency already engaged by the Company.						
46	Bare Pipe ND12", API5L X70 - 7.1 mm	18	Nos	1,50,000.00	95,000.00	57.89%	AHR
47	Bare Pipe ND12", API5L X70 - 8.7 mm	22	Nos	1,50,000.00	1,00,000.00	50.00%	
48	**SUPPLY AND INSTALLATION OF CASING PIPE & 6 INCH CS CONDUIT:** Supply and installation of casing pipe and 6 inch CS conduit for OFC by jacking / boring or open cut for rail, road or canal crossings wherever required in all types of soils and terrain separately for carrier pipes and fibre optic cable inside HDPE duct, supply of casing pipes and all other Contractor supplied materials viz. casing insulators and casing end seals as per enclosed drawing, materials for casing vents and drains, etc. including transportation, supply of all other materials, equipments, consumables, man-power, welding including visual inspection of all weld joints, installation of casing insulators, end seals, vents and drain-off pipes, backfilling and restoration as original of the facility crossed and performing all works as per drawings, specifications including PTS and GTS and instructions of Engineer-in Charge and provisions of Contract document.						
49	Supply and installation of Casing pipe by Boring / Jacking as per item no. 48 (Other than Railway Crossings) Casing Pipe Details: (Pipe 18" , 6.4 mm Thick, API 5L GR.B)	100	M	12,000.00	13,200.00	-9.09%	
50	Supply and installation of 6 inch CS Conduit by Boring/Jacking as per item no. 48 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	100	M	7,000.00	6,600.00	6.06%	
51	Supply and installation of Casing pipe by open cut as per item no. 48 Casing Pipe Details: (Pipe 18" , 6.4 mm Thick, API 5L GR.B)	100	M	11,000.00	5,500.00	100.00%	AHR
52	Supply and installation of 6 inch CS Conduit by open cut as per item no. 48 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	100	M	4,000.00	4,400.00	-9.09%	
53	**HDD CROSSING**						
54	**Generalities**						
55	Topographic / Bathymetry, Geotech Investigation and Hydrological data collection						

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56	Site preparation						
57	Design & stress calculations as per requirement						
58	Material hand-over and material handling						
59	Site reinstatement						
60	Final dossier including all notes & calculations as required in the specification						
61	**Installation of 6 inch CS Conduit**						
62	Teletransmission--Separate Drilling for 6 inch CS Conduit for OFC installation						
63	Installation of HDPE duct & OFC cable inside 6 inch CS conduit						
64	Drilling & Pulling of 6 inch CS Conduit shall be done before mainline HDD.						
65	**Pipeline string**						
66	Beveling & welding						
67	Inspection & testing of welds						
68	Field joint coating						
69	Temporary support (roller)						
70	Control of pipeline string						
71	Hydrotesting & leak test						
72	**Drilling operation**						
73	Earthwork entry / exit points including grading erection of embankment etc..						
74	Supply & clearing out of all material needed for drilling						
75	Drilling of washer pipe, reaming & cleaning of drill opening, supply and preparation of bentonite						
76	Pull back of the pipe string						

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				UNIT PRICE-L1 BIDDER	**UNIT PRICE-TRACTEBEL**		
77	Disposal of surplus of soil & bentonite						
78	Control of the integrity of the coating						
79	**Work at entry point**						
80	Changes in direction						
81	Beveling & welding						
82	Inspection & testing of welds						
83	Field joint coating & coating of all bare section of pipe						
84	Earthwork						
85	Lowering-in						
86	backfilling as required						
87	**Work at exit point**						
88	Changes in direction						
89	Beveling & welding						
90	Inspection & testing of welds						
91	Field joint coating & coating of all bare section of pipe						
92	Earthwork						
93	Lowering-in						
94	backfilling as required						

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95	Complete work for the water/ Road/ Rail crossings, including taking over and handling of linepipes from Contractor Storage Yard to worksite, Arrangement of all additional land required for Contractor's storage, fabrication, access for construction; construction design calculation and engineering of the crossing, mobilization and demobilization at site(s), supply of all materials as per "Scope of Supply" and all consumables, equipment, manpower and other resources, and acquiring the required land for site preparations, and execution of, but not limited to, the following works in accordance with specifications, drawings, and as per provisions of the Contract document and instructions of the Company/ Engineer-in- Charge: Carry out all surveys required for collecting data relevant to design and construction of the crossing, preparation of all necessary construction drawings for Company's approval as per the provisions of the Contractor document, Preparation of detailed construction method statement and calculations including Scour Depth calculations for river/ canal crossings, Strings preparation including welding, 100% Radiography of welds, NDT of welds and re-beveled areas, radiography, weld repair and re-test, pre-testing of completed string, corrosion coating of field joints with Dirax or equivalent, inspection of corrosion coating and repair of defects, Preconstruction surveys and collection of all necessary data, Installation of pipeline and CS conduit (6 Inch CS Conduit shall be installed through Seperate Drilling) , horizontal directional drilling to the correct profile as per approved drawings and specification, Post-installation hydrotest including leaks and repair of defects and retesting, etc. for defects attributed to Contractor's faulty work, Supply, fabrication and construction of protective fencing as required, Hydrotesting, Supply, fabrication and erection of pipeline markers, Restoration and clean-up etc., Preparation of as-built drawings and other records etc., All other works not specifically listed herein, but required as per specifications, drawings, provision of contract document, calculations, and construction method statements, leading to successful completion of works.						
96	Linepipe details:- (Pipe 12" dia, Wall Thickness: 7.1 mm, Pipe Grade: API 5L GR.X-70 PSL 2, External Coating: 3LPE) CS Conduit details: (Pipe 6" dia, 6.4mm Thick, API 5L GR.B) Note: 1. CS Conduit shall be supplied by the Contractor. Radiography & Hydrostatic testing is not required to be done for CS Conduit. (6 Inch CS Conduit shall be installed through Seperate Drilling) Contractor shall quote accordingly. 2. The rate shall be applicable for the drilled length of the HDDs.	1300	M	10,000.00	48,667.00	-79.45%	
97	All above works shall be executed in accordance with scope of work, GTS,PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. This line item is applicable for HDD crossing mentioned in the Crossing List with prior approval of Engineer -In-Charge during Construction.						
98	**SUPPLY & INSTALLATION OF OPTICAL FIBBE CABLE AND HDPE DUCT**						
99	Suppy of 24 Fibre Composite armoured Optical Fibre Cable drum (6 fibre G-655 & 18 fibre G-652) of 4 km +/-5% Cable drum length with fiber terminal closure, inspection chamber, electronic route marker all along pipeline route, Two number electronic locater as per PTS-Optical Fibre cable and Scope of Work C&I along with all required accessories and fitments not mentioned seperately.	26200	M	105.00	75.00	40.00%	
100	Inspection/Jointing Chamber (fabricated or readymade)	8	Nos	16,000.00	6,325.00	152.96%	AHR
101	Blowing Pit (fabricated or readymade)	25	Nos	16,000.00	6,325.00	152.96%	AHR
102	Supply of jointing closure 24 Fiber, 2 way including all accessories (3M, Siemens, Reychem make only)	10	Nos	5,500.00	3,450.00	59.42%	AHR
103	Supply of End to End OFC termination of wall mounted FTC with pig tails other accessories for termination of OFC - 24 Fibre in the Telecom Room at Bokaro & SV1	2	Nos	24,000.00	17,250.00	39.13%	
104	Electronic marker	8	Nos	4,000.00	4,025.00	-0.62%	
105	Electronic Locator	1	Nos	4,00,000.00	2,30,000.00	73.91%	AHR

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TRACTEBEL engie	ANNEXURE - V DETAILS OF AHR ITEMS FOR LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010						PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL Owner- GAIL (INDIA) Ltd.	Rev.00 Date-11.02.2022 Price Bid Opened on-07.02.2022
Sl. NO.	ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR				AHR ITEMS
				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL			
106	Supply of 50mm OD permanently lubricated HDPE telecom duct along with all the required accessories as per PTS-Optical Fibre cable and Scope of Work C&I	26700	M	105.00	73.50	42.86%		
107	Laying of HDPE Duct : Laying of 50mm HDPE Ducts in same pipeline trench direct buried, or inside 6 inch CS conduit at various crossings as per Specification in all type of soil & terrain, excavated as required, padding, backfilling, etc. including supply of accessories required for HDPE Duct installation, including plastic couplers, end plugs, cable sealing plugs, end caps, etc. suitable & sufficient for above supplied ducts, cleaning and sealing of ducts at the end laid drum lengths, preparation and supply of cable blowing pit at each Km jointing of HDPE duct, testing of HDPE Duct and accessories after laying preparation of report and final drawing and documents as per specification, joint location marking, erection accessories, as-built, etc.	22500	M	10.00	29.00	-65.52%		
108	Blowing of Optical Fibre Cable inside HDPE Duct : All activities pertaining to Blowing of Optical Fibre Cable in same pipeline trench directly (after testing drum at site), inside HDPE duct along the pipeline and at crossing, sealing using all materials required as per specification	22500	M	50.00	39.50	26.58%		
109	Installation of FTC & Wire mesh, termination of OFC on FTC / DDF inside telecom room, splicing with steet fibre, fibre test, OTDR test, power testing of laid OFC, identification of fault, rectification, earthing, final testing and commissioning, preparation of reports, etc. work complete in all respect with all necessary accessories for all location till final Handing Over and Taking Over by Owner of laid OFC.	1	LS	5,000.00	86,250.00	-94.20%		
110	**TRANSPORTATION OF COATED AND BARE LINEPIPES FROM GAIL DUMPYARDS (ANY LOCATIONIN INDIA) TO CONTRACTOR STORAGE YARD:**							
111	"Receiving and taking over" of "free issue" Linepipes from GAIL Dump Yard location (any location in India); Carrying out inspection of Linepipes at the time of receiving and taking-over, recording of pipe & coating defects at the time of taking over in the presence of Company's representative, carrying out repair of coating defects & pipe defects attributable to Company; including supply of materials, consumables & equipments; handling, hauling and transportation from designated place of issue to Contractor Storage Yard; unloading and stacking of the linepipes at Contractor Storage Yard; including arranging all equipments, trailers, trucks & manpower; all works as per Scope of Work, drawings, PTS, GTS and other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, Provision of Contract & instructions of Engineer InCharge.							
112	Linepipe Details:- Coated and Bare Line Pipe 12" diameter API 5L Gr. X-70 PSL-2 Wall Thickness - 6,4mm / 7.1mm / 8.7 mm External Coating - 3LPE, Internal Coating - Liquid Epoxy 1) Loading of Pipes into Installation contractor's trailer shall be carried out by the contractor. 2) Development & Maintenance of Contractor Storage Yard adequate to store the linepipes including arrangement of all Lifting & Handling equipment at Contractor's Storage Yard shall be done by the Contractor. Rate for the same shall be quoted in applicable items. 3) Rate for repairing of coating defects in linepipes identified and recorded at the time of receiving & taking over i.e. coating-defects attributable to Company shall be included in this item. 4) Rate for repairing of pipe-defects identified and recorded at the time of receiving & taking over i.e. pipe-defects attributable to Company shall be quoted separately in the applicable items of the SOR. 5) Transportation of line pipe from Contractor's Storage Yard to work site is included in SOR item 1 above, No separate payment will be applicable for the same.	220000	Ton-Km	20.00	32.00	-37.50%		
113	**TRANSPORTATION OF FREE ISSUE PIPING ITEMS (OTHER THAN LINE PIPE) FROM GAIL STORAGE YARDS (ANY LOCATION IN INDIA) TO CONTRACTORS YARD / WORKSITE(S) :** "Receiving and taking-over", handling, lifting, loading, transportation and unloading of Company supplied "free-issue materials" (Other than line pipe) viz. Metering Filtering and PRS Skid, Scrapper Launcher/ Receiver & accessories, Valves with or without Actuators, Insulation Joints, Flow Tee, Pig Signallers, fittings, flanges etc. from GAIL Storage yards location (any location in India) to Contractor's Storage Yard / work-site(s). Note:- 1) Location of GAIL Storage Yard shall be anywhere in India. Contractor shall quote accordingly. 2) Transportation of FIM from Contractor's Storage Yard to work site, is included in SOR iten cable for the same.	15000	Ton-Km	25.00	41.66	-39.99%		

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Sl. NO.	**ITEM DESCRIPTION**	**UNIT**	**QTY**	**UNIT PRICE INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR**			**AHR ITEMS**
				UNIT PRICE-L1 BIDDER	**UNIT PRICE-TRACTEBEL**		
114	**DEVELOPMENT OF CONTRACTOR STORAGE YARD:**						
115	Development of the Contractor Storage Yard including fencing, illumination etc., including deployment of all lifting and handling equipments, manpower required to stack, unload and load all Free Issue Material (FIM) including Line Pipes and all bought out items, as required; storage of all Free Issue Material and bought out items for the required duration as per project requirement, all works as per Scope of Work, drawings, other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, PTS, GTS and Provision of Contract & instructions of Engineer In-Charge. The storage yard shall be used for storage of all Free Issue Line pipes, all other Free Issure Material (FIM) and all bought out items required for the project. Notes:- 1) Development of contractor storage yard adequate to store all the material required for Project, including all Free Issue Material (FIM) and bought out items. (Rate for the same shall be captured in this item) 2) Maintenance of contractor storage yard for the entire project period is included in the scope of contractor. No separate payment shall be applicable for the same.	1	LS	6,00,000.00	10,94,390.00	-45.17%	
116	Hard Rock breaking by controlled blasting / chiseling method (rate will be applicable in case when prior approval for rock breaking is obtained by the contractor from GAIL / PMC)	100	M3	5,500.00	948.42	479.91%	AHR
117	Clean Agent Fire Supression System as per Scope of Work	1	LS	2,50,000.00	14,76,742.19	-83.07%	
118	Restoration of underground utilities (pipes & cables) during excavation at ONGC, GCS Bokaro and Receiving Station (which is inside SV-01 Premises)	10	Nos	50,000.00	27,500.00	81.82%	AHR
120	**SECTION-B [MECHANICAL (PIPING & TERMINAL WORKS)]**						
121	**PIPING WORKS AT DESPATCH AND RECEIVING STATIONS AND HOOK-UP WITH ONGC GCS, BOKARO** All works for installation of all piping at all elevations for Despatch and Receiving Stations as indicated in Drawings, Scope document, including supply of all consumables, Gaskets, nuts, bolts Studs, manpower, materials and equipment (except Company supplied free-issue materials), aligning, grouting, tie-in with pipeline and carrying out all mechanical works of underground and above ground piping including fabrication, welding, installation of all pipes, valves (manual & actuated), flanges, fittings, flow tees, pig signalers, insulating joints, corrosion monitoring probes /corrosion coupons, installation of instruments (pressure/temperature gauges, vents, drains-off, safety relief valves, electro hydraulic valves etc.) as indicated in P& IDs and GADs. 100% Radiography of weld joints of piping above 1.5 inch, Magnetic particle & Die penetration test for piping 1.5 inch & below, all NDT of welds, weld repairs/retesting, hydrostatic testing, cleaning/flushing, functional testing, de-pressurizing , Drying and dewatering, cutting and re-beveling (as required), hookup of all pipeline/utilities at the battery limit with the pipeline/utilities installed by others, obtaining all statutory clearances, approvals and permissions for the work (wherever required), excavation and filling in all types of soils including soft/hard rock for installation of piping/ pipe supports; corrosion coating and external painting (as required), finishing, clean-up and restoration of site, preparation of as- built drawings, documents and project records and performing all works as per drawings, specifications, other provisions of Contract document and instructions of Engineer-in-Charge. Civil/ structural works for piping supports will be paid separately as per unit rate provided elsewhere in the contract. Cost of Transportation of all materials (Including FIM mentioned above) for station works, from Contractor's own stock-yard to Work site, to be included in this SOR item. No separate payment will be applicable for the same.						
122	Fabrication and Erection of piping as per item no.110, (For Pipe Size 2 Inch and above, 100% Radiography) Note: 1. Rate for Handling, Fabrication and erection of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item. Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor.Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes 2" & above, shall also be part of this item. Contractor shall quote accordingly.	1900	Inch Dia Meter	800.00	870.87	-8.14%	

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						Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

Sl. NO.	ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR			AHR ITEMS
				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL		
123	Fabrication & Erection of Piping as per item no.110 (For Pipe Size Below 2 inch, Magnetic particle & Dye Penetration Test as per the requirement of specification) Note: 1. Rate for Handling and installation of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item.Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor. Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes below 2", shall also be part of this item. Contractor shall quote accordingly.	50	Inch Dia Meter	600.00	1,109.02	-45.90%	
124	Painting of Piping (Pipe, Fittings, Flanges, Valves, Equipments, etc.) as per item no. 110	1950	Inch Meter	75.00	83.00	-9.64%	
125	Hydrostatic testing, cleaning / flushing, functional testing, de-pressurizing, dewatering & drying of Piping as per item no. 110 (for all size upto 12").	1950	Inch Meter	100.00	67.54	48.06%	
126	**INSTALLATION OF COMPANY SUPPLIED FIM (FML SKID AND PIG LAUNCHER/RECEIVER SYSTEM) AT DESPATCH TERMINAL AND RECEIVING TERMINAL**						
127	Installation of Company supplied Filtering, Metering and PRS Skid and Scrapper Launcher/ Receiver with accessories, at stations including all handling and installation works; as per drawings, specifications enclosed with the Contract and directions of Engineer-in-Charge. Cost of Transportation of above Free issue items, from Contractor's own stock-yard to Work site for station works, to be included in this SOR item. No separate payment will be applicable for the same.	1	LS	1,50,000.00	4,95,000.00	-69.70%	
128	**CONTRACTOR SUPPLIED ITEMS:(Supply of Items as per attached PTS,GTS,Data Sheet,QAP and PMS)**						
129	**Station pipe -Seamless**						
130	1" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, PE, SEAMLESS	6	Meter	800.00	1,109.00	-27.86%	
131	2" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	90	Meter	1,100.00	2,068.00	-46.81%	
132	4" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	120	Meter	1,800.00	3,046.00	-40.91%	
133	10" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	12	Meter	2,500.00	11,614.00	-78.47%	
134	12" pipe, 7.1mm thk, ANSI B 36.10, API 5L X 70,HFERW	84	Meter	2,800.00	6,747.00	-58.50%	
135	**Supply of fittings & Flanges**						
136	1 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 350 LF2,CL1, BW, ANSI B16.25	4	Nos	500.00	1,298.00	-61.48%	
137	1" WNRF FLANGES, 6C1, SCH. 160 / 600#, WNRF, B-16.5, ASTM A350 LF2, CL1, BW-ANSI B16.25 RF	4	Nos	650.00	1,098.00	-40.80%	
138	1", BLIND FLANGES, 6C1, 600#, RF, B-16.5, ASTM A350 LF2, CL1, RF	4	Nos	800.00	968.00	-17.36%	

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				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL			
139	3/4" EQUAL TEES, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25,	2	Nos	9,500.00	323.00	2841.18%		AHR
140	3/4", CUP THREADED 6C1, 6000#, ANSI B16-11, ASTM A 350 LF2, CL1 , BW - ANSI B16.25, ANSI B1.20.1,	3	Nos	800.00	216.00	270.37%		AHR
141	**WELDOLETS (MAINLINE x BRANCH SIZE)**							
142	4" x 1", WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	4	Nos	3,500.00	2,297.00	52.37%		AHR
143	12" x 2" WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 7.1 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 694 F70	5	Nos	3,500.00	7,085.00	-50.60%		
144	12" x 2", WELDOLETS (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 7.1 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	35	Nos	3,500.00	7,085.00	-50.60%		
145	**GASKETS**							
146	GASKETS, 6C1, 600#, RF, ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 1"	12	Nos	85.00	82.00	3.66%		
147	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 2"	210	Nos	120.00	129.00	-6.98%		
148	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 4"	30	Nos	350.00	287.00	21.95%		
149	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 10"	2	Nos	350.00	1,100.00	-68.18%		
150	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 12"	44	Nos	600.00	1,273.00	-52.87%		
151	**NIPPLES**							
152	NIPPLES, 6C1, Sch 160 /600#, ANSI B 36.10, ASTM A333 GR.6, BOTH ENDS PLAIN, SEAMLESS-LG=100mm, 3/4"	10	Nos	450.00	322.00	39.75%		
153	NIPPLES, 6C1, Sch 160 / 600#, ANSI B 36.11, ASTM A333 GR.7, ONE END THRD -MNPT SEAMLESS- LG=100mm, 3/4"	8	Nos	450.00	322.00	39.75%		
154	**Supply of following Valves as Per attached PTS,GTS,Data Sheet,QAP,PMS & MTO**							
155	1",BALL VALVE - FULL BORE (RF) (ABOVE GROUND),6C1	6	Nos	14,000.00	22,807.00	-38.62%		
156	3/4", CHECK VALVE (RF) (AG), 6C1	2	Nos	7,000.00	10,450.00	-33.01%		
157	**3/4",NEEDLE VALVE, 6C1**	5	Nos	4,500.00	20,350.00	-77.89%		

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				UNIT PRICE-L1 BIDDER	**UNIT PRICE-TRACTEBEL**		
158	Note (Applicable for all items of SOR item No 128 to 157): 1. Before procurement of any of the above materials Contractor will take prior approval from GAIL / PMC. 2. Payment will be made for actual quantity used.						
160	**SECTION-C [CIVIL / STRUCTURAL & ARCHITECTURAL]**						
161	**CIVIL , STRUCTURAL & ARCHITECTURAL**						
162	**Earthwork excavation in soil**						
163	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	2900	cum	250.00	256.00	-2.34%	
164	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth beyond 1.5m and upto and inclusive of 3.0m including Removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	70	cum	350.00	302.00	15.89%	
165	**Earthwork excavation in soft rock**						
166	Earth work in EXCAVATION below ground level for all kinds of works in SOFT ROCK and HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as irected including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	255	cum	2,500.00	925.00	170.27%	**AHR**
167	**Backfilling after execution of work**						
168	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps within a LEAD OF 100M,including re- excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/ mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	1150	cum	350.00	113.00	209.73%	**AHR**
169	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps beyond a LEAD OF 100M AND UPTO & INCLUSIVE OF 500M including re- excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	490	cum	400.00	141.00	183.69%	**AHR**
170	**Transporting & Disposing the SURPLUS EARTH AND DEBRIS**						
171	Transporting and disposing the SURPLUS EARTH AND DEBRIS including shrubs and vegetations from construction areas to areas ANYWHERE OUTSIDE THE PLANT BOUNDARY, including re-excavating the deposited soil excavated earlier, loading, transportation, unloading, laying at all depths and heights, stacking,levelling and dressing both the area (viz. from where the earth is transported and where it is deposited) to required levels and slopes complete with all lifts as directed. For carting on the basis of truck measurements (volume of truck reduced by 30% for voids). DISPOSAL BE ARRANGED BY THE CONTRACTOR. Royalty as applicable for disposal outside plant limits to be borne by the Cc	1310	cum	400.00	233.00	71.67%	**AHR**

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				UNIT PRICE-L1 BIDDER	**UNIT PRICE-TRACTEBEL**		
172	**EARTH WORK FILLING BY EXCAVATION**						
173	EARTHWORK IN FILLING by excavating the earth from BORROW AREAS arranged by CONTRACTOR for all leads, transporting the earth from borrow area including cleaning & stripping the earth at borrow areas, breaking clods, loading, unloading and laying at all depths and heights in layers of thickness not exceeding 15 cms., watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% of the maximum laboratory dry density, ressing, trimming, levelling the top surface etc. in foundations, plinths, trenches etc. all complete.	9555	cum	350.00	596.00	-41.28%	
174	**PLAIN & REINFORCED CEMENT CONCRETE: (REFER SPECIFICATION NO. (Z/02/0004)**						
175	**PLAIN CEMENT CONCRETE - PCC**						
176	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:4:8 (1 cement : 4 coarse sand (Zone-III) : 8 graded stone aggregate 40 mm nominal size)	160	cum	5,500.00	5,529.00	-0.52%	
177	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:3:6 (1 cement : 3 coarse sand (Zone-III) : 6 graded stone aggregate 40 mm nominal size)	22	cum	7,000.00	5,850.00	19.66%	
178	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:2:4 (1 cement : 2 coarse sand (Zone-III) : 4 graded stone aggregate 20 mm nominal size)	150	cum	7,200.00	6,483.00	11.06%	
179	Providing and laying PLAIN CEMENT CONCRETE for all depths below and upto plinth level in foundations, drains, fillings, non-suspended floors, pavements & ramps or any other works etc. including shuttering, tamping, ramming, vibrating, curing, etc. all as specified in any shape, position, thickness and finishing the top surface rough or smooth as specified and directed all complete for concrete grade M20 with 20mm and down size graded crushed stone aggregates/Gravels. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR	26	cum	7,500.00	6,825.00	9.89%	
180	**RCC WORKS**						
181	**SUBSTRUCTURE**						
182	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUBSTRUCTURE INCLUDING CENTERING & SHUTTERING) e.g. foundations, raft, beams, pile caps, Retaining walls, counterforts, buttresses, pedestals, pipe sleepers, columns, suspended floors, staircases, landings, steps, brackets etc., including equipment/ machine foundations & pedestals viz. compressors, generators, etc. (including single pour concreting as specified on the drawing), applying cement wash on concrete surface (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering, etc., wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT)for all depths below and upto plinth level in any shape, position and thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	1220	cum	8,000.00	7,539.00	6.11%	
183	**SUPER STRUCTURE- EXCLUDING CONTROL ROOM BUILDING, GUARD ROOM & BOUNDARY WALL**						

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TRACTEBEL engie	ANNEXURE - V DETAILS OF AHR ITEMS FOR LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010					PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL Owner- GAIL (INDIA) Ltd.	Rev.00 Date-11.02.2022 Price Bid Opened on-07.02.2022
Sl. NO.	**ITEM DESCRIPTION**	**UNIT**	**QTY**	**UNIT PRICE INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR**			**AHR ITEMS**
				UNIT PRICE-L1 BIDDER	**UNIT PRICE-TRACTEBEL**		
184	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUPER STRUCTURE INCLUDING CENTERING & SHUTTERING in suspended floors, slabs, beams, columns, walls including counterforts, staircases, landings, steps, facias, fins, mouldings, gutters, shelves, window sills, canopies, lintels, girders, ducts, brackets, chajjas with drip moulds, pedestals, posts, struts, equipment/ machine foundations, ramps etc. (including single pour concreting as specified on the drawing), providing cement wash (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT) FOR ALL HEIGHTS UPTO & INCLUSIVE OF 20 m ABOVE PLINTH LEVEL in any shape, position, thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	70	cum	8,000.00	8,962.00	-10.73%	
185	**CONTROL ROOM BUILDING (SUPERSTRUCTURE)**						
186	Construction of Control Room Building as per drawings and specification. Building work for all Superstructure works INCLUDING CENTERING & SHUTTERING , Reinforcement , masonry work, partition wall, Plastering & pointing, flooring, Floor finishes, Door & windows, rolling shutter, false ceiling, all finishes, painting, roof treatment complete in all respect etc.)	215	m2	30,000.00	23,378.00	28.33%	
187	**GUARD ROOM (SUPERSTRUCTURE)**						
188	Guard Room as per drawings and specification. Building work for all superstructure works including (Reinforcement, masonry work Plastering & pointing, flooring, Floor finishes, Door & windows, painting, roof treatment, all finishes, water supply and sanitary work complete in all respect etc.)	17	m2	24,000.00	22,853.00	5.02%	
189	**HYD Bars / MS Bars**						
190	Supplying and placing in position HIGH YIELD STRENGTH DEFORMED STEEL BARS REINFORCEMENT of Grade Fe500D TMT conforming to IS:1786, for RCC work (excluding control room building & Guard room & boundary wall superstructure) including transporting the Steel, straightening, cleaning, decoiling, cutting, bending to required shapes and lengths as per details, binding with 18 SWG black soft annealed binding wire at every intersection, supplying and placing with proper cover blocks, supports, chairs, overlaps, welding, spacers, fanhooks etc. for all heights and depths etc. all complete as directed. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE	136	MT	75,000.00	78,606.00	-4.59%	
191	**BOUNDARY WALL (SUPERSTRUCTURE)**						
192	compound wall (Superstructure)with RCC columns, beam, coping and Brick masonry (3.0m high) with an additional 0.6m high barbed wire & concertina coil (dia. 600mm) overhead on 'Y' shape structural steel frame. (SUPERSTRUCTURE) works included (masonry work, Plastering ,painting, CENTERING & SHUTTERING complete in all respect etc.)with gate and supplying, fixing and tensioning in position 2.5mm(12 gauge), 2 ply, 4 points, GI Barbed wire designation A-1 conforming to IS:278 in horizontal rows and cross diagonals for compound wall "Y" shaped overhang etc. with necessary GI staples, clips and pins, GI straining bolts and binding wire with all labour and materials etc. complete as per drawings, specifications and directions of Engineer-in-Charge.(The barbed wire shall be measured in linear length of the barbed wire actually fixed) Supplying, fabricating and fixing in position structural steel line posts, straining posts, struts for 'Y' shaped overhang etc. conforming to IS:2062 over brick/stone Masonry/ RCC compound walls/ columns, cutting to required size as per drawings and specifications, welding where necessary, embedding in position, holding to correct level and line, any auxiliary structure for dummy supports, drilling holes and painting as per painting specification attached with tender, cutting brick/rubble/concrete surfaces if necessary, grouting with M20 grade concrete including cost of grout with all labour and material etc. complete as per drawings, specifications and directions of Engineer-in-Charge.(All materials including cement shall be supplied by contractor).	285	RM	6,000.00	13,000.00	-53.85%	
193	**STRUCTURAL STEEL WORKS (REFER TE SPECIFICATION)**						
194	Supplying, fabricating and erecting of structural steel and applying COATING (Post-erection/ Field) of approved quality and shade as per TE Specification or Job Specifications, wherever applicable) over the coat of shop primer already applied, including storage, surface preparation, degreasing, cleaning, drying, providing necessary arrangement for access, testing etc. including touching up of shop for steel structures (Including Wicket Gate, Main Gate and emergency gate, excluding ladders, spiral stairways & hand rails) at all location & levels, all complete as specified, for UNIT (INLAND) areas considering environment classification as INDUSTRIAL. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE. (Unit rate based on Structural steel weight)	19.5	MT	1,00,000.00	1,32,000.00	-24.24%	
195	MISCELLANEOUS STEEL WORKS (REFER TE - SPECIFICATIONS)						
196	**MS Chequered Plates**						

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				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL		
197	Supplying, fabricating and erecting in position at all levels and locations bolted, screwed and/or welded M.S. CHEQUERED PLATES of any thickness in walkways, platforms, stairtreads or any other place as directed, etc. cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing, welding, preparation and submission of fabrication drawings and preparing the surfaces for painting and applying shop primer as per TE Specification after fabrication and return of unused/ scrap/ unserviceable chequered plates to Owner's store and material reconciliation etc. all complete as specified and directed	1.5	MT	1,00,000.00	92,728.00	7.84%	
198	**Anchor Bolts**						
199	Supplying, fabricating, fixing and keeping in position at all levels and locations THREADED ANCHOR BOLTS of all diameters and nomenclature including nuts, washers, anchor plates, pipe sleeves etc. in foundations, columns, pedestals, slabs, beams, walls etc. or any other place as directed including handling & transporting, straightening if required, turning from relevant size M.S. rounds to required diameter, threading, welding, providing necessary templates and auxiliary dummy structures, if any, necessary tying and welding with reinforcement, adjustment of shuttering & reinforcement/any other fixture, greasing exposed metal surfaces, covering bolts and packing the sleeves with jute cloth etc. all complete as specified and directed.(SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1	MT	1,00,000.00	1,12,713.00	-11.28%	
200	**MS Metal Inserts**						
201	Supplying, transporting, storing, fabricating and fixing in position M.S. METAL INSERT (with lugs) of any shape made out of flats, plates, rolled sections, pipes etc. providing necessary templates, staging, cutting,straightening, if required, bolting, welding as required and embedding in position on both Plain and Reinforced Cement concrete members inclusive of adjusting shuttering & reinforcement/ any other fixture, welding where necessary, tying and holding to correct level, line and position, any auxiliary dummy structures to support the heavy inserts, painting exposed surfaces with a coat of primer as per TE Specification all complete for all depths and heights as specified and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	0.55	MT	1,00,000.00	1,05,597.00	-5.30%	
202	**MS Grating**						
203	Supplying, fabricating and erecting in position at all levels and locations ELECTROFORGED GALVANISED GRATING (purchased from approved manufacturer by the Contractor) conforming to TE STANDARD (in walkways, platforms, stair treads etc.) including cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing with manufacturer's supplied galvanised clamps, preparation and submission of fabrication drawings, all complete as specified and directed (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.7	MT	1,00,000.00	1,45,139.00	-31.10%	
204	**Hand Railing 1000mm**						
205	Supplying, fabricating and fixing in position at all locations 1000mm high INCLINED HAND RAILING (for staircases) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade M.S. Tubes conforming to IS:1239 including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE SPEC. preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	RM	2,500.00	4,035.00	-38.04%	
206	Supplying, fabricating and fixing in position at all locations 1000mm high HORIZONTAL HAND RAILING (for platforms, walkways, etc. or any other location as directed) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade MS Tubes conforming to IS:1239 and 100x5 MS Toe Plate confirming to IS:2062 (Grade A/B), including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE standard drawing & specification, preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	2,500.00	4,013.00	-37.70%	
207	**CHAIN LINK FENCING**						

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208	Supplying, fabricating and fixing G.I. chain link fencing with 3.5mm dia. wire, 50x50mm diamond mesh chain link fence fabric conforming to IS:2721 fixed to steel/RCC posts/struts above ground level, including supply of chain link fencing fabric in 1.9 metre wide rolls, stretcher bars, staples, etc. required for fixing the fencing, fixing of chain link fencing between straining posts, fixing of bottom of fencing in cement concrete 1:2:4 blocks and painting with synthetic enamel etc. , including supply and fixing line wires, complete as per drawings, specifications and directions of Engineer -in-Charge (All materials shall be supplied by Contractor). (The measurement of chain link fencing shall be on linear basis for 1.9 m wide fencing fabric)	10	M	4,500.00	5,593.00	-19.54%	
209	**ROADS & FLEXIBLE PAVEMENT (UPTO WBM LAYER)**						
210	Preparation and consolidation of sub-grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth outside the property boundary in the un-disputed areas as directed by Engineer-In-Charge.	2400	M2	800.00	158.00	406.33%	**AHR**
211	Supplying and laying of stone aggregate of 63mm down to 45mm size for WBM layer Base Course, tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 75mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding material of plasticity index upto 6%, including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts etc. complete as per drawings, specifications and directions of Engineer-in-Charge	7200	M2	800.00	398.00	101.01%	**AHR**
212	**CONCRETE PAVEMENTS**						
213	Construction of dry lean cement concrete (DLC) sub base over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in- charge.	240	cum	1,200.00	3,707.00	-67.63%	
214	Providing and laying Reinforced Cement Concrete with 20mm and down size graded crushed stone aggregates in flooring, pavements etc. including leaving pockets, if necessary, making recess/drains, laying in alternate panels, etc. for all depths including shuttering, tamping, curing, providing dowel bars with sleeves/tie bars etc where ever required at site. as specified in any shape, thickness, position and finishing the top surface smooth etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For RCC of M-30 grade concrete (all materials including cement but excluding cost of providing & fixing reinforcement and joint sealing shall be supplied by the contractor).	600	cum	5,500.00	8,358.00	-34.19%	
215	Providing 20mm wide Expansion Joints in pavement slabs as per general technical specification including cleaning the joints of all loose material, filling with 20mm thick impregnated fibre boards for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved Joint Sealing Compound as per IS:1834 Type-B etc. all complete as per drawings, specifications and directions of Engineer-in-Charge	1100	M	4,500.00	16.00	28025.00%	**AHR**
216	Sealing joint around pedestal and column etc. 20mm wide x 150 mm deep including filling with 20mm thick impregnated fire board for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved joint sealing compound as per IS:1834 Type-B.	300	M	4,000.00	92.00	4247.83%	**AHR**
217	**RCC PIPE CULVERTS & ELECTRICAL ROAD CROSSINGS ETC. (as per drawing & TE specification)**						
218	Supplying and laying in position RCC pipes with collars conforming to IS:458 for pipe culverts, cable crossings etc. including cutting the pipe if necessary, lowering, laying in position to proper levels, slopes etc. caulking the joints with spun yarn soaked in neat cement slurry and finishing with cement mortar 1:2 (1 cement : 2 sand) curing etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For following Class and Internal PIPE DIA (MM).	20	M	1,200.00	6,027.00	-80.09%	
219	**U/G AND A/G G.I. PIPELINE SYSTEM - WATER SERVICES tender specification**						

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220	Supplying and laying mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ ASTM A105 (Galvanized) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, earthwork in excavation for trenches, valve pits, etc. in all types of soil excluding soft and hard rock including laying of pipes in trenches, joining the pipes and fittings with threaded connections, hydrostatic testing of the piping, backfilling the trenches with selected/approved earth fill material, cutting of roads wherever required, making good the road surface after laying, disposal of surplus earth within a lead of 500 m, etc. including supply of necessary fittings etc. complete as per specifications, drawings and directions of Engineer-in-Charge. For following Nom.Size in mm. (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	800.00	1,073.00	-25.44%	
221	Supplying and laying above ground mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ASTM A 105 (GALVANISED) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, including laying of pipes on sleeper, walls, including erecting piping on columns, etc. for pump station, overhead tanks, etc. including joining the pipes and fittings with threaded connections, hydrostatic testing of the piping including supply of necessary fittings etc & pipe supports. complete as per specifications, drawings and instructions of Cement Supplied by contractor (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	800.00	945.00	-15.34%	
222	**MISC. CIVIL AND STRUCTURAL WORKS FOR U/G PIPING AND OTHER CIVIL WORKS**						
223	Providing and laying brick masonry with locally available bricks of specified class (Brick of class lower than specified shall not be accepted) in cement mortar 1:4 (1 cement : 4 Coarse sand) in one or more brick thickness and in any shape in foundation and plinth for valve pits, drains, circular/square manholes, wing walls, etc. including providing recesses, openings, etc. including curing, finishing the joints flush below ground level and raking out joints in plinth with all labour and material, etc. complete as per drawings, specifications and direction of Engineering-Charge. For following Brick Class. All materials including cement supplied by the Contractor and. (Brick Class - 5)	418	cum	7,500.00	6,576.00	14.05%	
224	Providing 13mm thick average cement plaster in cement mortar 1:3 (1 cement: 3 sand) on brick walls/stone masonry/pitching or on concrete surfaces for manholes, valves pits, culverts, wing walls, etc. including cleaning and preparation of the surface, scaffolding, curing etc. for all depths and heights complete as per drawings specifications and direction of Engineer-in-Charge. All materials including cement supplied by the Contractor.	775	M2	7,500.00	400.00	1775.00%	**AHR**
225	**UNDERGROUND SEWER SYSTEM - RCC PIPES**						
226	Supplying and laying underground R.C.C. pipes sewers with socket and spigot ends conforming to IS:458 of approved make, to proper grade and alignment, including earthwork in excavation in all types of soil except soft and hard rock for pipe trenches, etc. including dewatering, shoring and shuttering if necessary, dressing of sides, leveling, grading and ramming of bottoms, cutting the R.C.C. pipes to required lengths, lowering the pipes, jointing, including connecting the pipes to manholes and grouting the pipe body with manhole wall using cement mortar 1:2 (1 cement : 2 sand), testing, draining of water and cleaning of pipe after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness , watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, including cutting of roads wherever required and making good the same, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit etc. complete for all depths as per drawings, specifications and instructions of Engineer-in-Charge.(All material shall be supplied by contractor) For following Pipe size (mm) and Class(The following pipe sizes are all internal diameter of the pipes)						
227	(Dia (Internal) - 100 mm, Piping Material Class - NP2)	15	M	1,500.00	2,034.00	-26.25%	
228	(Dia (Internal) - 150 mm, Piping Material Class - NP1)	15	M	2,000.00	2,259.00	-11.47%	
229	(Dia (Internal) - 450 mm, Piping Material Class - NP2)	70	M	2,500.00	2,219.00	12.66%	
230	**UNDERGROUND SEWER SYSTEM-HDPE PIPES**						

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231	UNDERGROUND SEWER SYSTEM-HDPE PIPES :- Supplying and laying HDPE pipes conforming to IS:4984 of approved make to proper grade and alignment, including earthwork in excavation for trenches etc. in all types of soil except soft and hard rock including dewatering till completion of subsequent works, shoring and strutting, if necessary, dressing the sides, leveling, grading and ramming the bottom, jointing the pipes using hot plates as per manufacturer's recommendation, lowering, providing and laying 1:5:10 (1 cement : 5 sand : 10 aggregate) plain cement concrete of minimum 100mm thickness on bottom and side of pipe as directed, connecting the pipes to manholes and grouting the pipes to manhole/valve chamber walls, including supplying and fixing the specials and fittings, such as bends, reducers, tees, elbows, caps etc. conforming to IS:8008 or fabricated from pipes as per specification, supplying and fixing of flanges, fixing of online valves, including fixing of bolts, nuts and gaskets etc. as per specifications, testing, draining of water and cleaning of pipes after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness, watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit, cutting of road wherever required, making good the same etc. complete for all depths as per drawings, specification and instruction of Engineer-in- Charge. For the following nominal diameter (mm) Pressure Rating(Kg/Cm2). (Dia (Internal) - 80 mm, Pressure Rating - 2.5 Kg/sqcm)	50	RM	2,000.00	888.00	125.23%	AHR
232	**PLUMBING AND BUILDING DRAINAGE**						
233	Supplying and fixing approved quality Cast Iron soil/waste pipe conforming to IS:1729 below ground with necessary specials, bends such as Y-junction, T- junction (both single and double) including plugs, shoes, cowls, jointing with lead caulked joints and testing, cutting in floors, earth work in excavation, encasing the pipe in 50mm THK, PCC M20, backfilling and removal of surplus earth upto a lead of 50M etc. complete as per drawings, specifications and directions of Engineer-in-Complete						
234	100mm dia (All materials including cement supplied by contractor)	10	RM	2,500.00	1,419.00	76.18%	AHR
235	80mm dia (All materials including cement supplied by contractor)	10	RM	2,000.00	805.00	148.45%	AHR
236	Supplying and fixing gun metal globe valve conforming to IS:778, complete as per specifications and directions of Engineer-in-Charge.						
237	Dia - 50 mm	2	Nos	3,500.00	5,083.00	-31.14%	
238	Constructing of brick masonry valve chamber in 1:4 Cement mortar(1 cement: 4 sand) with CI frame & cover fixed on M-20 grade cement concrete , necessary excavation, M-20 grade foundation concrete, 13mm thick 1:3 cement plaster on inside & all exposed surfaces, backfilling, removal of surplus earth for all leads within the complex limit etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge. For following Valve size and Brick Class (All materials including Cement supplied by contractor)						
239	Dia - 50 mm, Brick Class - 5)	2	EACH	7,500.00	59,230.00	-87.34%	
240	Providing and fixing approved stone ware 100mmx100mm dia. gully trap as per tender specification, including grating with CI frame and cover 300mmx300mm including brick masonry (brick class shall be as mentioned below) chamber in 1:4 cement mortar(1 cement: 4 sand) on M-20 grade cement concrete foundation, plastered inside and outside surfaces with 1:3 cement mortar (1 cement: 3 sand) with 13mm average thickness including providing and fixing light duty CI frame and cover, painting CI frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat, earth work in excavation, backfilling, removal of surplus earth, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry etc. all complete as per drawings, specifications and directions of Engineer-in-Charge						
241	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	8,500.00	23,200.00	-63.36%	
242	Construction as per(Design basis & general technical specification) of brick masonry (brick class shall be as mentioned below) inspection chambers/manholes of 750mmx750mm internal size 1000mm deep(Max.) in cement mortar 1:4 (1 cement: 4 sand) with CI frame and cover 500mm clear dia, (circular Medium duty of grade MD-10) conforming to IS:1726 fixed on RCC slab of M-30 grade, necessary excavation, supplying, fixing 4 Nos. 16mm dia M.S. rungs, M-20 grade foundation concrete 1:3 cement mortar(1 cement: 3 sand) plastering of 13mm average thickness for inside & 16mm avg. thickness for outside exposed surfaces, backfilling, disposal of surplus earth upto a lead of 100M, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry, painting the C.I.frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat etc. all complete as per drawings, specifications and directions of Engineer-in-Charge.						
243	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	7,500.00	40,209.00	-81.35%	

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TRACTEBEL engie	ANNEXURE - V DETAILS OF AHR ITEMS FOR LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010					PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL Owner- GAIL (INDIA) Ltd.	Rev.00 Date-11.02.2022 Price Bid Opened on-07.02.2022
Sl. NO.	ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR			AHR ITEMS
				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL		
244	Construction, supplying, installation, testing and commissioning of septic tank as per standards and IS:2470 Part-I , with all necessary accessories like inlet, outlet vent pipes, manhole covers, rungs etc. including earthwork in excavation in all type of soil except soft and hard rock, backfilling and disposal of surplus earth for all leads etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge						
245	All material including cement supplied by contractor for (Users - 10 NOS)	1	Nos	1,50,000.00	1,00,018.00	49.97%	
246	**MISCELLANEOUS ITEMS**						
247	Supplying and fixing in position entrance gate in complex boundary wall fencing manufactured out of steel frame work and square MS bars of 20 mm at 100 c/c and horizontal name plate band at lock rail level suitably hinged with box type steel post embedded in cement concrete i.e. providing the tension bar for smooth operation and locking arrangement etc. complete as per tender specification, including painting with two coats of anti-corrosive paint and two coats of approved aluminium/synthetic enamel paint etc. complete as per drawings, specifications and directions of Engineer-in-Charge.						
248	4.0M clear opening width of gate in two panels.	3	Nos	70,000.00	1,22,847.00	-43.02%	
249	Supplying & Laying interlocking Paver Blocks for roads, footpaths and any other place etc. including providing 50 mm thick sand filling below Paver Blocks including compaction of sand layer, filling the joints by dry sand, providing precast kerb stone of PCC M-20 at edges, including preparation of compacted sub-grade etc. all complete as per drawing, standard and directions of Engineer-in-Charge. (All material including cement supplied by contractor, paver blocks shall confirm to IS: 15658. cloour and shape of paver block shall be as per owner requirements for following thickness of paver blocks						
250	(Thickness - 60 mm)	385	M2	1,200.00	1,233.00	-2.68%	
251	Supply and installation on terrace, high density polyethylene drinking water circular tank as per IS:12701 and ISI marked including supply and installation of all fittings, cover with suitable locking arrangement, float valve, making necessary holes for inlet, outlet and overflow connection and vent pipe etc. and the base supports for tank including supply of all necessary material all complete as per specifications and directions of Engineer-in-charge. (Sintex or equivalent having valid ISI license) for following capacities.						
252	capacity - 500 litre	2	Nos	5,000.00	8,232.00	-39.26%	
253	Supplying, installation, testing and commissioning of Upflow Anaerobic Filter with bleaching tank as per TE Std. Drawing with all necessary accessories like, Upstream inlet CI piping from septic tank, Downstream outlet RCC NP2 class piping up to surface storm water drains, CI pipes for filter chamber, CI valve, RCC pre-cast pit covers, steps, perforated pre-cast slabs etc., inlet chamber, Filter chamber, deluding chamber including earthwork in excavation in all type of soil including soft rock, backfilling with murrum or approved soil arranged by the contractor, disposal of surplus earth etc. complete as per drawings, specification and direction of Engineering-Charge (All materials including cement shall be supplied by the contractor, Brick Class lower than 5.0 shall not be used). - Upto 10 Nos. user	1	Nos	1,50,000.00	93,700.00	60.09%	AHR
254	**DEMOLISHING AND DISMANTLING**						
255	**Brickwork**						
256	Demolishing BRICKWORK (taking all necessary safety precautions) for all depths below plinth level including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	3,500.00	2,099.00	66.75%	AHR
257	Demolishing BRICKWORK (taking all necessary safety precautions) for all heights above plinth level including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	3,500.00	2,053.00	70.48%	AHR
258	**RCC**						

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							Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

Sl. NO.	ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR			AHR ITEMS
				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL		
259	Demolishing RCC WORK (taking all necessary safety precautions) for all depths below plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	4,500.00	2,783.00	61.70%	AHR
260	Demolishing RCC WORK (taking all necessary safety precautions) for all heights above plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	4,500.00	2,782.00	61.75%	AHR
261	**PCC**						
262	Demolishing PLAIN CEMENT CONCRETE work (taking all necessary safety precautions) for all depths below plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc. disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation and backfilling shall be paid separately under relevant items)	10	cum	3,500.00	2,099.00	66.75%	AHR
263	**MISCELLANEOUS ITEMS (REFER TE SPECIFICATION)**						
264	Sand Filling						
265	Supplying and filling approved SAND of specified quality under floors, in foundations, plinths, tank foundations etc. for all depths and heights including cost of sand,royalties,transportation to site for all leads and lifts, including loading, unloading, spreading in layers of loose thickness not exceeding 150 mm,watering,ramming,compacting with mechanical compactors and/or other equipment to the specified levels to achieve 85% relative density as per IS:2720 Part XIV,including preparation of subgrade to the required slope, providing testing apparatus and testing the degree of consolidation all complete as per drawings, specifications and direction of Engineer-in-charge. The rates shall be inclusive of the cost of all labour,material,equipments etc. all complete .	120	cum	400.00	1,405.00	-71.53%	
266	**SAND GRAVEL MIX**						
267	Supplying and filling sand gravel mix (1:1) with approved aggregate below road, RCC pavement, manholes, pits, foundations, bedding of UG piping etc. in layers of 150 mm loose thickness (maximum) including watering, ramming, rolling, compacting to achieve 85% relative density as per IS 2720 Part-XIV, quarrying, royalties, transportation, handling, etc. all complete as per drawings, specifications and directions of Engineer-in- Charge. (The rate shall be inclusive of the cost of all labour, material, equipment etc. all complete)	122	cum	2,500.00	2,013.00	24.19%	
268	**GROUTING WITH NON-SHRINKABLE COMPOUND**						
269	Providing and laying manually or by pumping at all positions a ready mix non-shrink cementitious grout of compressive strength specified below for specified works e.g. pipe support, base grouting of rotating equipment and other installation complete in all respects as per scope of work, detailed construction drawings , technical specifications and directions of the Engineer-In-Charge.						
270	Having compressive strength of 30 N/mm2 , Per bag of 25 Kg	100	Bags	1,500.00	3,241.00	-53.72%	
271	Having compressive strength 45 N/mm2 , Per bag of 25 Kg	20	Bags	2,500.00	3,812.00	-34.42%	
272	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains, SS trench of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.	10	SQM	6,000.00	3,043.00	97.17%	AHR

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TRACTEBEL ENGIE	ANNEXURE - V DETAILS OF AHR ITEMS FOR LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010					PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL Owner- GAIL (INDIA) Ltd.	Rev.00 Date-11.02.2022 Price Bid Opened on-07.02.2022	
Sl. NO.	**ITEM DESCRIPTION**	**UNIT**	**QTY**	**UNIT PRICE INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR**				**AHR ITEMS**
				UNIT PRICE-L1 BIDDER	**UNIT PRICE-TRACTEBEL**			
273	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, leve and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	17	M3	6,000.00	7,999.00	-24.99%		
274	Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M-25, of size 1000x450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos. cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of the Engineer-In-Charge.	630	EACH	2,500.00	1,156.00	116.26%		AHR
275	**Borewell and recharge well**							
276	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job all complete as per drawing, direction of Engineer -in-charge, in all types of soil :	130	M	1,800.00	571.00	215.24%		AHR
277	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge.	130	M	1,000.00	660.00	51.52%		AHR
278	Providing and fixing Bail plug/ Bottom plug of required diameter to the bottom of pipe assembly of tubewell as per IS:2800 (Part-I). :150mm dia	3	EACH	500.00	660.00	-24.24%		
279	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	1,100.00	1,430.00	-23.08%		
280	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	1,500.00	1,430.00	4.90%		
281	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	M3	2,500.00	1,430.00	74.83%		AHR
282	Gravel packing in tubewell construction in accordance with IS:4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of the Engineer-In-Charge.	3	M3	1,500.00	1,430.00	4.90%		
283	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS:4270, of reputed & approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size dia having minimum wall thickness 5.00 mm	5	M	2,500.00	1,604.00	55.86%		AHR
284	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	60	M	1,000.00	660.00	51.52%		AHR
285	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/ 3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS:8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	25	M	2,500.00	1,706.00	46.54%		
286	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of 150 mm diameter	1	Nos	500.00	201.00	148.76%		AHR

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				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL		
287	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS:2800 (Part-I), including necessary bolts & nuts of required size complete 150 mm diameter.	1	Nos	2,000.00	1,860.00	7.53%	
288	Supply, Installation and commissioning of 1.5HP Borwell Submersible Pump	1	EACH	35,000.00	1,14,110.00	-69.33%	
289	Supply and Installation of 3Cx10Sqmm Copper Flat Cable	200	M	700.00	410.00	70.73%	AHR
290	**LANDSCAPING**						
291	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment).	810	M3	500.00	633.00	-21.01%	
292	Fine dressing of the ground.	2700	M2	300.00	4.50	6566.67%	AHR
293	Providing & laying Selection no. 1 grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden and than rolling the surface with light roller make the surface smoothen and light watering the same maintenance for 30 days or more till the grass establish properly,as per direction of officer in charge	2700	M2	1,200.00	114.00	952.63%	AHR
294	Conducting topographical ground/land survey in the specified area as shown in the tender drawings by conventional/GPS or any other standard method, covering details of physical features like Rivers, Nallahs, Lakes, Ponds, wells, pits, Forest, Trees, Roads, culverts, transmission lines, telegraph/ telephone and electric poles, underground or any other services, cross drainage works including cross sectional details of nallah etc. including establishing high flood level with source of information, identification of any monument, historical structure, wild life sanctuary in the vicinity, storm water disposal point with levels, cross-section details of nallah, recording spot levels, top level of nearest state highway or National Highway, including providing in tabulation girth wise no. of trees etc as specified, plotting and developing topographical contour maps, showing true north including establishing survey reference stations, key plan etc. including all equipment's, instruments, personnel's, clearing of bushes as per requirement for intervisibility to carry out survey work etc. , complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of drawings/map and supply of electronic files. Note: Survey work shall be carried out by survey agency approved by Contractor and sample spot witness of levels cordinates by PMC, and shall be submitted to PMC/Owner for review.Survey drawing will be provided in A0 size with clear visibility of all the spots/levels/ contoure and Bench marks. Permanaet bench mark will be stabished at site in a 450x450 mm size 600mm high bick masonry piller.	6950	M2	500.00	50.00	900.00%	AHR
295	**GEO TECHNICAL INVESTIGATION (Z/02/0022)**						
296	Conducting soil investigation with boring including all field tests and laboratory tests, mobilization and demobilization of equipments & personnel etc. for soil investigation for each borehole location. complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of Reports & recommendations and supply of electronic files.	5	Nos	40,000.00	71,500.00	-44.06%	
297	**ANTI-TERMITE TREATMENT**						
298	Supplying chemical emulsion in sealed containers including delivery as specified in the Technical Specifications.						
299	**Chlorpyriphos/ Lindane emulsifiable concentrate of 20%**	200	LITRE	350.00	192.00	82.29%	AHR
300	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :						
301	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc. as per Techinal specifications and direction of engineering in charge: With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	80	METRE	250.00	27.00	825.93%	AHR
302	Treatment of soil under floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the floor:						
303	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	250	SQM	250.00	221.00	13.12%	

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304	Supply and installation 60mm dia GI pipe for column support of gate	15	M	800.00	1,600.00	-50.00%	
305	Supply and installation 100mm dia MS pipe	15	M	800.00	1,840.00	-56.52%	
306	Supply and installation 50mm dia MS pipe	15	M	800.00	875.00	-8.57%	
307	Supply and installation of U-PVC pipes (working pressure 4 kg / cm²) Single socketed pipe 75 mm dia for weep holes	300	M	1,200.00	281.00	327.05%	AHR
309	**SECTION-D [CATHODIC PROTECTION WORKS]**						
310	**Cathodic Protection system**						
311	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning & Monitoring of the temporary cathodic protection [TCP] system using galvanic anodes to protect the external surface of the pipeline against soil-side corrosion for minimum 2 year or till commissioning of permanent CP system whichever is later . All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard drawings and vendor list as attached with this tender and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	60,00,000.00	16,80,000.00	257.14%	AHR
312	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning of permanent cathodic protection system for 40 years. The scope of work also includes post commssoning surveys and repair of coating/ rectification of cathodic protection system based on the post commissioning surveys. In additon to the same, AC Interference study on the pipelines to be performed and mitigation measures takes to the satisfaction of Owner/ CONSULTANT. All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard and vendor list attached and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	40,00,000.00	75,00,000.00	-46.67%	
314	**SECTION-E [ELECTRICAL WORKS]**						
315	**ELECTRICAL**						
316	**SWITCH BOARDS / UPS SYSTEM/ PANEL**						
317	Supply , Installation, testing and commissioning of LT Switch-boards, AC UPS system with UPS Distribution board & Ni-Cd Battery banks , distribution boards, cubicles with electrical equipment, misc. electrical panels etc., including transportation from store/yard to site at the place of installation, unpacking, assembly, including mounting and wiring of loose parts supplied by equipment vendor, interconnection of shipping sections and requisite inter-panel wiring between shipping sections, including supply of all wiring materials, installation on foundations or fixing to wall or steel structures, aligning, levelling, grouting, including all labour and materials, as per approved drawings, specifications of this tender and directions of Engineer-in-Charge.						
318	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted MEDB	2	Nos	4,50,000.00	6,02,693.00	-25.34%	
319	Supply , erection , termination , earthing and commissioning of wall mounted OLDB as per single line diagram of DT stations	1	Nos	2,50,000.00	1,13,747.00	119.79%	AHR
320	Supply , erection , termination , earthing and commissioning of wall mounted ILDB as per Single line diagram of DT stations	1	Nos	2,50,000.00	1,07,042.00	133.55%	AHR
321	Supply , erection , termination, earthing and commissioning of wall mounted SSDB as per Single line diagram of DT stations	1	Nos	2,50,000.00	1,00,299.00	149.25%	AHR

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				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL		
322	Supply , erection , termination , earthing and commissioning of wall mounted AC DB as per Single line diagram of DT stations	1	Nos	2,50,000.00	94,252.00	165.25%	AHR
323	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 6 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of DT stations	1	SET	4,50,000.00	14,99,830.00	-70.00%	
324	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for DT stations.	1	SET	5,00,000.00	15,40,000.00	-67.53%	
325	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 1 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of RT stations	1	SET	2,50,000.00	2,75,000.00	-9.09%	
326	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for RT stations.	1	SET	3,00,000.00	12,10,000.00	-75.21%	
327	Supply , erection , and commissioning of 415 V SFU as per Single line diagram of DT stations including liasioning with SEB as per Tender specification and direction of Engineer- In charge.	1	Nos	2,00,000.00	63,742.00	213.76%	AHR
328	**POWER AND CONTROL CABLE**						
329	Supply , laying , termination , erection and testing of 1.1 KV Power and control FRLS PVC Outersheath, XLPE insulated, armored Cables . Outdoor cable will be laid in buried cable trench and in Indoor cable will be laid in Cable trench by provision of Cable tray and supports inside the trench as per PTS - Electrical package P.017110 G 11077 E002						
330	3.5C x 95 sqmm AL FRLS XLPE	300	M	1,500.00	600.00	150.00%	AHR
331	3.5C x 70 sqmm AL FRLS XLPE	100	M	1,200.00	495.00	142.42%	AHR
332	3.5C x 50 sqmm AL FRLS XLPE	50	M	540.00	393.00	37.40%	
333	3.5C x 25 sqmm AL FRLS XLPE	100	M	350.00	293.70	19.17%	
334	4C x 16 sqmm CU FRLS XLPE	100	M	1,000.00	959.20	4.25%	
335	3C x 2.5 sqmm CU FRLS XLPE	170	M	600.00	228.80	162.24%	AHR
336	3C x 6 sqmm CU FRLS XLPE	250	M	650.00	287.10	126.40%	AHR
337	4C x 6 sqmm CU FRLS XLPE	350	M	500.00	357.50	39.86%	
338	2C x 6 sq.mm CU FRLS XLPE	100	M	400.00	262.90	52.15%	AHR
339	2.5 sqmm Cu. Wire	1800	M	210.00	42.90	389.51%	AHR
340	6 sqmm Cu. Wire	600	M	250.00	78.10	220.10%	AHR
341	**Earthing & Lightning**						
342	Supply , Installation , testing and comissioning of GI Earth electrodes & Cu plate type earth pit complete with earth pit as per IS 3043, PTS-Electrical package and all necessary material including exacavation of earth pit , filling with charcol and salt , back filling, brick work , connections including all labour and materials as approved drawing and specification of this tender and direction of Engineer-In charge.						
343	**GI Earth Electrodes**						

Prepared Checked(C&P) Checked (Finance) Approved(Project Manager)

TRACTEBEL engie	ANNEXURE - V DETAILS OF AHR ITEMS FOR LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010					PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
						Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

Sl. NO.	ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR			AHR ITEMS
				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL		
344	65mm dia x 3000 mm L GI pipe electrode type Earth pit	15	Nos	20,000.00	17,574.70	13.80%	
345	**Cu plate Earth Electrode**						
346	600x600x3mm Cu plate type Earth pit	8	Nos	30,000.00	19,916.60	50.63%	AHR
347	**Earth strip and wire**						
348	50x 6 mm GI Flat strip	850	M	280.00	283.80	-1.34%	
349	25 x 6 mm Cu Flat strip	50	M	280.00	679.80	-58.81%	
350	2.5 Sqmm Cu wire	250	M	200.00	38.50	419.48%	AHR
351	25 x 6 mm GI Flat strip	200	M	200.00	207.90	-3.80%	
352	10 Sq.mm earthing cable	250	M	220.00	122.10	80.18%	AHR
353	GI Earth Bus 50x 6 Sq.mm with all installation assesories	3	Nos	4,000.00	1,485.00	169.36%	AHR
354	Cu. Earth Bus 50x 6 Sq.mm with all installation assesories (in control room)	4	Nos	4,000.00	2,420.00	65.29%	AHR
355	25x3 mm GI Flat for Lightning as well as down conductors for DT station as per overall earthing layout and GGNG-E-20713-3007	80	M	2,000.00	174.90	1043.51%	AHR
356	Other lightning assesories like 20mm dia copper rod, hollosphere ,200x200x6mm ms plate ,anchor/fastner ,test links for DT station as per overall earthing layout and GGNG-E-20713-3007	1	LOT	1,50,000.00	57,022.90	163.05%	AHR
357	**OUTDOOR Lighting**						
358	Supply , erection , Testing & commissioning of Outdoor area lighting system including with supply of flameproof / weather proof light fixture , pole , junction box and earthing including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender & Overall outdoor lighting layout of DT & RT station and directions of Engineer- In charge.						
359	100W FLP LED Fixture & FLP Junction box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	4	Nos	1,50,000.00	23,650.00	534.25%	AHR
360	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	2	Nos	1,50,000.00	1,28,064.20	17.13%	
361	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in RT Stations.	7	Nos	1,50,000.00	1,28,064.20	17.13%	
362	1x160W FLOOD LED Fixture with weather proof junction box & 9 mtr high pole with all assesories for open area	9	Nos	20,000.00	37,491.30	-46.65%	
363	1x70 W Solar type Street LED Fixture with weather proof junction box, VRLA Battery (72 hrs backup time) & 9 mtr high pole for street lighting	6	Nos	1,50,000.00	1,15,175.50	30.24%	
364	1x27 W Post Top Lantran LED Fixture for Gate with weather proof junction box for Gate lamp	2	Nos	35,000.00	10,850.40	222.57%	AHR
365	1x36 W LED industrial fixture suitable to building parapet /wall with all assesories like weath		Nos	35,000.00	10,322.40	239.07%	AHR

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				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL		
366	**INDOOR Lighting**						
367	Supply, erection, Testing & commissioning of Indoor building area lighting system including with supply of light fixture, point wiring including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender and directions of Engineer- In charge.						
368	2x20 W LED recessed decorative fixture for control room	5	Nos	8,000.00	5,597.90	42.91%	
369	2x20W LED Industrial Fixture for Electrical room	2	Nos	8,000.00	4,692.60	70.48%	AHR
370	1x40W LED Flameproof Fixture for Battery room	1	Nos	8,000.00	21,714.00	-63.16%	
371	2x18W LED Industrial Fixture for Varanda/Toilet/ water cooler area/ Guard room	6	Nos	8,000.00	3,867.60	106.85%	AHR
372	1x36W LED Industrial Fixture	4	Nos	8,000.00	3,173.50	152.09%	AHR
373	2x20 W LED recessed decorative fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) control room.	2	Nos	8,000.00	13,750.00	-41.82%	
374	2x20W LED Industrial Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Electrical room	2	Nos	8,000.00	11,550.00	-30.74%	
375	1x40W LED Flameproof Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Battery room	1	Nos	8,000.00	24,750.00	-67.68%	
376	**Switch socket**						
377	Supply and Installation of single/ three phase Switch socket as per Indoor Illumination layout for DT & RT and PTS-Electrical Package and directions of Engineer-In Charge						
378	5/15A surface type switch socket (1 Ph)	7	Nos	2,500.00	1,751.20	42.76%	
379	5A flush type switch socket (1 Ph)	4	Nos	1,500.00	1,387.10	8.14%	
380	16A Switch socket (I Ph)	3	Nos	2,500.00	1,641.20	52.33%	AHR
381	20A Switch socket for AC (1 Ph)	4	Nos	2,500.00	1,650.00	51.52%	AHR
382	Flame proof Junction box for Exhaust fan in Battery room	2	Nos	8,000.00	3,870.90	106.67%	AHR
383	32A Switch socket for welding receptacles (3 Ph)	1	Nos	8,000.00	7,371.10	8.53%	
384	Modular switch board	12	Nos	1,500.00	1,161.60	29.13%	
385	**FANS and Exhaust FAN**						
386	Supply ,Installation and testing of Ceiling Fan and Exhaust fan with louvers including all labours and materials as per Indoor Illumination layout for DT and PTS-Electrical Package and directions of Engineer-In Charge						
387	Ceiling Fan 230V AC 1200 mm sweep	3	Nos	3,500.00	2,576.20	35.86%	

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				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL		
388	450 mm FLP Exhaust Fan for Battery room	2	Nos	6,500.00	22,557.70	-71.19%	
389	200 mm Exhaust Fan for Toilet	1	Nos	6,000.00	2,941.40	103.98%	AHR
390	300 mm Exhaust Fan for Electrical room/ CO2 room	3	Nos	6,000.00	4,404.40	36.23%	
391	**Air conditioning unit**						
392	Supply ,Installation and testing of Five star 1.5 Ton Split AC with outdoor compressor unit including all labours and materials as per Typical Indoor Illumination layout for DT and directions of Engineer-In Charge						
393	Split Air condition Five star 1.5 Ton	4	Nos	70,000.00	62,547.10	11.92%	
394	**Hardware and other Accessories**						
395	Supply and Installation of Hardware and other accessories including all labours and materials as per Tender specification PTS-Electrical Package P.017110 G 11077 E002 and directions of Engineer-In Charge						
396	Rubber mat	15	M	2,500.00	2,296.80	8.85%	
397	Rubber hand gloves	1	PAIR	2,500.00	2,570.70	-2.75%	
398	Warning Marker	1	Nos	3,500.00	1,659.90	110.86%	AHR
399	PVC Conduit with bend ,tee and other required assesories	1	LOT	3,500.00	1,10,498.30	-96.83%	
400	CAUTION Board & Sock treatment chart	1	Nos	2,500.00	2,912.80	-14.17%	
401	Cable route marker as per Standard drawing TE-IN-STD-G-0327	1	LS	10,000.00	62,667.00	-84.04%	
402	Fire extingusher and SAND Bucket with Stand	1	SET	10,000.00	41,098.20	-75.67%	
403	Ladder type Cable tray - hot dip Galvanized Prefabricated 450 mm wide	55	MTR	2,000.00	1,402.50	42.60%	
404	Perforated type Cable tray hot dip Galvanized Prefabricated 450 mm wide	35	MTR.	2,000.00	1,698.40	17.76%	
405	**Cable Glands**						
406	Cable Glands : Flame proof IIA/IIB double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge						
407	Cables with upto OD 20 mm & above OD 20 mm as per Single line diagram of DT & RT station	1	LOT	5,000.00	97,276.30	-94.86%	
408	Cable Glands : Weather proof double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge						
409	Cables with upto OD 20 mm to 40 mm as per Single line diagram of DT & RT station	1	LOT	5,000.00	75,028.80	-93.34%	
411	**SECTION-F [INSTRUMENTATION WORKS]**						
412	**INSTRUMENTATION**						

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ANNEXURE - V

DETAILS OF AHR ITEMS
FOR
LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A

TENDER ID: 2021_GAIL_99100_1
TENDER REFERENCE NO.: P.017110 G 11031 R010

PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	**Rev.00**
	Date-11.02.2022
Owner- GAIL (INDIA) Ltd.	**Price Bid Opened on-07.02.2022**

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				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL		
413	**SUPPLY**						
414	Supply of Pressure Transmitter along with 2 valve manifolds with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	35,000.00	58,666.30	-40.34%	
415	Supply of Pressure gauge including high range along with 2 valve manifolds with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	18	Nos	25,000.00	13,975.50	78.88%	AHR
416	Supply of Pressure gauge including Low Range along with 2 valve manifolds, gauge saver with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	3	Nos	25,000.00	11,687.50	113.90%	AHR
417	Supply of temperature element (RTD) along with flanged thermowell mounted for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	20,000.00	14,153.70	41.31%	
418	Supply of Temperature Transmitter with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	7	Nos	35,000.00	37,537.50	-6.76%	
419	Supply of skin type temperature element (RTD) for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I003), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	2	Nos	35,000.00	14,824.70	136.09%	AHR
420	Supply of Local control panel with all accessories as per Data sheet (P.017110 G 11087 I011), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, SAT of local control panel,supports/ frame fabrication, earthing and screwing plug for unused entries, painting and integration with RTU. Termination of all Other panel SCADA hard wired signal including RS-485 signals through LCP for RTU/SCADA by Bidder. 1. Digital Barriers 2. Analog Barries 3. Relays 4. three poisition selector switch 5. LED indication lamps 6. Push buttons 7. terminal blocks 8. internal wiring 9. MCBs 10. Door switches 11. cooling Fan 12. LED lights	2	Nos	15,00,000.00	4,73,366.30	216.88%	AHR
421	Supply of Ex-proof junction box with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, iincluding Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.	4	Nos	25,000.00	21,175.00	18.06%	
422	Supply of Corrosion Monitoring system with corrosion coupon, Corrosion probe, transmitter and digital indicator (mounted in LCP) as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.						
423	Corrosion coupon along with accessories.	2	Nos	18,000.00	69,263.70	-74.01%	

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424	Corrosion probe along with transmitter, digital indicator, barriers and accessories.	2	Nos	35,000.00	4,21,850.00	-91.70%	
425	Supply of Conventional Type Microprocessor based fire detection system along with smoke detector, heat detector, cabinet, manual call point, Independent 24 Hrs battery backup with 15 min in alarm state, repeater panel and Electrical Operated Siren, exit signs and cables fromsensor ,MCP, siren, hooter to controller as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.						
426	Controller along with cabinet along with cabling	1	Nos	3,50,000.00	1,08,900.00	221.40%	AHR
427	Multisensor (smoke & heat)	10	Nos	25,000.00	4,510.00	454.32%	AHR
428	WP IP 65 Manual call points	6	Nos	10,000.00	4,070.00	145.70%	AHR
429	Ex Proof and WP IP 65 Manual call point	1	Nos	25,000.00	16,844.30	48.42%	
430	WP Hooter & Flasher	1	Nos	25,000.00	8,525.00	193.26%	AHR
431	Repeater panel	1	Nos	1,50,000.00	61,086.30	145.55%	AHR
432	Exist sign	6	Nos	8,000.00	11,577.50	-30.90%	
433	Electrical siren Exd	1	Nos	35,000.00	35,887.50	-2.47%	
434	24 Hrs battery backup	1	Nos	35,000.00	5,857.50	497.52%	AHR
435	Supply of Conventional type gas detection system along with controller, ex proof point gas detectors, beacon hooter, flasher, , cabinet, portable gas detector, calibration kit, alignment kit as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.						
436	Controller with cabinet	1	Nos	15,00,000.00	4,15,250.00	261.23%	AHR
437	Point gas detectors	12	Nos	18,000.00	1,29,250.00	-86.07%	
438	Panel Mounted hooter	2	Nos	25,000.00	8,525.00	193.26%	AHR
439	Dual tone Hooter & Beacon Ex"d" with reset push button	2	Nos	25,000.00	21,862.50	14.35%	
440	Portable gas detecotrs	1	Nos	1,20,000.00	65,450.00	83.35%	AHR
441	Calibration kit	1	Nos	75,000.00	2,33,786.30	-67.92%	
442	Ex d Junction Box	2	Nos	22,000.00	25,784.00	-14.68%	
443	Supply of Universal type Hand Held Configurators for transmitters with carrying case, rechargeable batteries (one working and one standby), and battery charger as per Data sheet,PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work	1	Nos	6,50,000.00	6,23,333.70	4.28%	
444	Supply of Instrumentation signal cable, control cable, communication cable/LAN cable, Power cables along with all sizes cable glands (WP & Exd), PVC hood, lug, ferrule, etc including Cable laying (buried as well as tray) along with termination, glanding, of ferrule, lugs, cable tie, cable clamp, cable marker etc. as per PTS-Instrumentation with appendices (P.017110 G 110 071 I001) and Scope of Work.						

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				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL		
445	1Px 1.5mm2	500	MTRS	120.00	145.20	-17.36%	
446	12Px 0.5mm2	900	MTRS	300.00	536.80	-44.11%	
447	1Qx1.5mm2	30	MTRS	300.00	192.50	55.84%	AHR
448	12Tx1.5mm2	200	MTRS	1,200.00	862.40	39.15%	
449	1Tx1.5mm2	180	MTRS	300.00	176.00	70.45%	AHR
450	6Px0.5mm2	200	MTRS	350.00	381.70	-8.30%	
451	2Px1.5mm2	200	MTRS	3,500.00	149.60	2239.57%	AHR
452	Cat 5 (LAN)	160	MTRS	500.00	146.30	241.76%	AHR
453	3C x 2.5mm2	240	MTRS	400.00	225.50	77.38%	AHR
454	Supply & laying of Instruments cable tray with tray cover (Branch Cable tray (50mm x 50mm), Main cable tray 900 mm, cable tray 300mm, cable tray 150 mm.) as per requirement, instruments/ PGD, CCTV/ mounting poles, instrument protection sun sheds, angles, channels, MS plates & all the erection materials and as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including installation of support, cable clamping, installation of tray cover and support painting.	1	LS	2,50,000.00	4,43,025.00	-43.57%	
455	Supply , installation & laying of tubes and fittings as per requirement and as per PTS-Instrumentation with appendices and Scope of Work C&I. SS 316L TEE (1/2", Class 3000#, Screwed, NPTF, Seamless) ,SS316L GLOBE/BALL VALVE (1/2", Class 800#, Screwed, NPTF, Seamless), SS316L PLUG (1/2", Screwed, NPTM, Hex head, class 3000#), SS316L PIPE NIPPLE (½" NPTM, seamless, schedule #160) Length of the pipe nipple as per requirement, SS316L MALE CONNECTOR (1/2" OD x 1/2" NPTM), SS316L FEMALE CONNECTOR (1/2"OD x 1/2" NPTF), SS316L UNION (1/2" OD), SS316L TUBE (1/2" OD x 0.065" WT), SS316L TUBE (1/4" OD x 0.035" WT)	1	LS	2,50,000.00	8,74,225.00	-71.40%	
456	Supply of mandatory spares as per Mandatory Spare **(P.017110 G 11075 I001)**	1	LS	2,50,000.00	1,10,000.00	127.27%	AHR
457	**AT Bokaro** Installation of metering skids, metering cabinet under the supervision of skid supplier, cable laying and terminal of cable from skid junction box to metering system cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	1,50,000.00	4,08,925.00	-63.32%	
458	**AT Bokaro** Installation of gas chromatograph skid, analyser & controller cabinet under the supervision of skid supplier, cable laying and terminal of cable from analyser cabinet to controller cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	1,50,000.00	4,08,925.00	-63.32%	
459	**AT Bokaro** Installation of H2S & Moisture analyser skids, cabinet under the supervision of skid supplier, laying and terminal of cable from skid field mounted cabinet to LCP/RTU. Including supply of all the required erection, fabrication and civil materials.	1	LS	1,50,000.00	4,08,925.00	-63.32%	
461	**SECTION-G [TELECOM WORKS]**						
462	**AT SV 01** Supply of Input out puts cards in existing Remote Terminal unit along with internal wiring at site and configruation of new parameters in existing RTU as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, Installation of Input out puts cards in existing Remote Terminal unit along with internal wiring at site, interfacing with LCP and configuration of new parameters in existing RTU, as per Scope of Work at SV 01						
463	32 channels digital input cards	1	Nos	1,00,000.00	60,500.00	65.29%	AHR
464	16 Channel digital output cards	1	Nos	50,000.00	60,500.00	-17.36%	

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TRACTEBEL engie	ANNEXURE - V DETAILS OF AHR ITEMS FOR LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART A TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010						PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL Owner- GAIL (INDIA) Ltd.	Rev.00 Date-11.02.2022 Price Bid Opened on-07.02.2022
Sl. NO.	ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR				AHR ITEMS
				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL			
465	12 channel Analog input cards	1	Nos	50,000.00	88,000.00	-43.18%		
466	Supply Telecommunication system, SDH equipment STM-4 Based SDH Cabinet of (2000H x 800W x 800W along with 100 mm base frame) as per below configuration: - 2*STM-4 + 2*STM-1 + 8FE ports as per PTS-Telecommunication system (P.017110 G 11077 I002), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including erection, testing, integration with existing NMS at Noida, Commissioning and integration with existing telecom system at SV 01 additional SFP of L4.2 for SV 01 connectivity	1	Nos	2,50,000.00	2,75,000.00	-9.09%		
467	Supply of CCTV-IP based Fixed colour camera and PTZ colour camera along with power cable, communication cable at each station as per PTS-Telecommunication system (P.017110 G 11077 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work., including erection, testing, integration with existing VMS at Noida, Commissioning and integration with existing telecom system at SV 01							
468	Fixed Camera WP IP65	1	Nos	1,50,000.00	15,400.00	874.03%		AHR
469	PTZ camera WP IP65	1	Nos	1,75,000.00	19,800.00	783.84%		AHR
470	Supply of one Analog phones control room, one number in guard room and one number WP IP66 in field safe area as per PTS-Telecommunication system (P.017110 G 11077 I002) , PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work							
471	Analog Phone	2	Nos	2,500.00	4,400.00	-43.18%		
472	Analog Phone Ex Proof WP IP 65	1	Nos	65,000.00	8,800.00	638.64%		AHR
473	FXO cards	1	Nos	15,000.00	7,700.00	94.81%		AHR
474	FXS	1	Nos	32,000.00	7,700.00	315.58%		AHR
475	Five pair armoured telephone cable, size 0.5mm2	100	MTR	250.00	143.00	74.83%		AHR
476	**AT Bokaro** Free issue RTU by GAIL: Transportation from Gail store to site location, installation, cabling from LCP to RTU, commissioning etc. Erection, installation of RTU inside the station control room including supply of all the required erection materials, fabrication and civil works	1	LS	5,00,000.00	1,10,000.00	354.55%		AHR

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TRACTEBEL ENGIE	ANNEXURE - V DETAILS OF AHR ITEMS FOR LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010					PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
						Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022
Sl. NO.	**ITEM DESCRIPTION**	**UNIT**	**QTY**	**UNIT PRICE INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR**			**AHR ITEMS**
				UNIT PRICE-L1 BIDDER	**UNIT PRICE-TRACTEBEL**		
1	**SECTION-A (MAIN LINE WORKS)**						
2	**CH.0.00 KM to CH.5.667 KM**						
3	**MAINLINE, PIPING AND MECHANICAL**						
4	PIPELINE LAYING / INSTALLATION Laying/ installation of coated line pipe, associated fittings and accessories, etc. as per specifications, drawings, other provisions of Contract and instructions of Engineer-in-Charge, including but not limited to carrying out the following: "Receiving and taking-over", handling, loading, transportation and unloading of Owner supplied coated and bare line pipes and other Free Issue Materials from Contractor's own stock-yard to Work site including stringing on the pipeline Right-of-Use (ROU), Arrangement of all additional land required for Contractor's storage, Performing the additional survey wherein survey data is not sufficient in the opinion of Contractor, arrangement of working RoU if RoU width is not sufficient for equipment/ vehicle movement etc., access for construction (other than Owner provided ROU; Developing necessary access way to the worksite, including earth filling, levelling, etc.; supply of all materials (except Owner supplied materials), supply of all materials, consumables, equipment, labour, etc.; fabrication, Staking and installation of construction markers, clearing, grubbing, grading (as required) of Right of Use; clearing and grading of ROU; Cutting/ uprooting of shrubs, plants, vegetation within ROU; , Trenching to all depths and to a width to accommodate the pipeline with optical fiber cable (inside HDPE Duct) by excavation in all types of soil (in case of hard rock, additional payment for hard rock breaking will be paid as per separate SOR line item), including additional trenching for seismic and other areas as specified,(Rate for laying of optical fibre cable and HDPE Duct not be included here and same to be quoted against separate SOR item); Carrying out repairs of pipe and coating defects not attributable to Owner; Thorough internal cleaning of all pipes by suitable methods to remove debris, shots, grits etc.; Stringing of line pipes along ROU including providing straw bags, soft padding/sand padding; Aligning, cold field bending, cutting and beveling (as required) of pipes for welding and field adjustments, NDT & NDT of re-beveled area, welding, carrying out destructive & non- destructive testing of welds required as per approved NDT specifications (including radiography) and providing all requisite equipment, labour, supervision, materials, films, consumables etc.; carrying out repairs of weld joints as required, carrying out re- radiography and other non-destructive tests on repaired joints, etc.; Installation of carrier pipe including concrete coated pipes (wherever required),						

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Sl. NO.	ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR			AHR ITEMS
				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL		
5	(Concrete Coating on pipes, covered separately) at all crossings including roads/ canals/ nala/ water crossings etc. (supply and installation of casing pipe by open cut or by Jacking/ boaring method covered separately) including pre-testing as required; Carrying out installation of carrier pipe in the casing pipe at cased crossings; Coating of all field weld joints, long radius bends (fabrication of Cold field bends covered here and fabrication of 6D bends by induction heating covered separately), buried fittings etc.; Supply & Installation of warning tape along the entire length of Pipeline including Crossing. Lowering the pipelines in trench, providing required padding over and around the pipeline with sand/graded material (in rocky areas), backfilling with available approved excavated material and/or other suitable soil (supply and providing of soft soil for pre & post padding in Rocky area); Supply and installation of slope breaker as per specifications and drawings in steep slope areas, wherever required; Carrying out hydrostatic testing including air cleaning, flushing, filling, gauging, pressurization of complete pipeline in various test sections as approved by Engineer-In-Charge to the specified test pressure, providing all equipment, pumps, fittings, instruments, dead weight tester, all types of pigs etc., and services, supervision, labour, consumables, arranging water required for hydrostatic testing including supply of corrosion inhibitor, air, etc. as required, locating of leaks and rectification of defects attributable to Contractor, re-testing after rectification, successful completion of hydro-testing of pipeline (De-watering covered else where in the SOR); including all tie-in(s) with the pipeline/ piping installed by others including cutting of test header, re- beveling as required; Carrying out all temporary, ancillary, auxiliary works and all incidental works required to make the pipeline ready for pre-commissioning; Carrying out EGP for the entire stretch of completed pipeline, Repair of defects recorded during EGP/gauge plate run or otherwise including cutting, beveling, welding, NDT, field joint coating etc.; as applicable, Final clean-up and restoration of right of use including obtaining NOC from respective statutory authorities as required and disposal of debris and returning all surplus material to designated disposal areas/storage yard, as directed by Engineer-In-Charge; Restoration of land, facilities and boundary wall etc. at associated facilities dismantled/damaged by the Contractor during construction; Obtaining work permits/ NOC from various statutory authorities having jurisdiction and complying with all stipulation/conditions/recommendation of the said authorities; Preparation of as-built drawings, pipe-book and other records. SOR shall be read in conjunction with Project drawings, scope of work, specifications, standards and other provisions of contract document. The work includes the Survey data & site preparation, Stringing/Chainges in direction, Beveling of pipe element, Welding Procedure Qualification & Welders Qualification, Welding of pipe element, Inspection & testing of production welds, Field joint coating, controlled blasting, chiseling, etc., Material hand over & material handling, Lowering-in & ballasting, All crossings except HDD as mentioned in Crossing List (including installation of carrier pipe inside the Casing at cased crossing) , Backfilling (for all depths in all types of soil, soft /hard rock) , including trench padding with sand, graded earth in rocky areas & rock shield(if required as per specs) reinstatement (restoration) and preparation of As-built Alignment & Crossing drawings.						
6	All above works shall be executed in accordance with scope of work, GTS, PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. 1. Supply and Installation of OFC and HDPE Ducts along the entire pipeline route, adjacent to the new pipeline, along with all required accessories, fittings and associated items, is covered separately in the SOR. All above works for buried pipeline (including hook-up pipeline from Tap Off Point inside ONGC GCS, Jharia upto proposed plot for GAIL DT), as per following details :						
7	ND 8", API5L X60 - 6.4 mm	4250	M	2,496.00	2,728.00	-8.50%	
8	ND 8", API5L X60 - 7.1 mm	1588	M	2,535.00	2,750.00	-7.82%	
9	Concrete slabs (Mechanical Protection) as per technical specifications Supply, fabrication and installation of reinforced concrete weights. Reinforced steel size should be 8 mm. top and bottom at a rate of 200 mm c/c of precasted RCC 1:2:4 on pipeline of wall thickness of 75 mm thick and size as per specifications & Standard drawings and instructions of Owner/ Owner's representative including supply of consumables, materials, equipment, labor, supervision, all associated civil works.	110	M	850.00	1,693.44	-49.81%	
10	Continuous Concrete Coating Supply of all consumables and materials, equipments, manpower, submission of application procedure with calculations for anti-buoyancy, design mix procedure qualification and application of continuous concrete weight coating thickness mentioned below (higher also, in case design requirements) on pipeline of all thickness, concrete weight coating of the field joints thereof, and performing all works as per specifications and instructions of Owner/Owner's representative and other provisions of CONTRACT DOCUMENT.						
11	25 mm thick	12	M	1,250.00	1,163.80	7.41%	

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						Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

Sl. NO.	ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR			AHR ITEMS
				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL		
12	30 mm thick	12	M	1,435.00	1,397.00	2.72%	
13	GEO TEXTILE BAGS FOR ANTI-BUOYANCY						
14	Additional works over and above item no. 4 to 8 for design, manufacture and supply of Non-biodegradable geo-textile bags and installation of geo-textile bags duly filled with gravel/ stone ballast on pipelines of all wall thicknesses for anti-buoyancy, drawings, scope of work and instructions of Engineer-in-Charge and other provisions of the Contract document. Note: This item shall be applicable for Some crossings as per instructions of Engineer-incharge.						
15	ND 8" (for all thicknesses)	12	M	1,912.00	2,200.00	-13.09%	
16	Permanent Markers Supply, fabrication and installation of following types of permanent markers along the pipeline route including all associated civil works such as excavation in all types of soil, construction of pedestals and grouting with concrete, clearing, supply & application of approved color and quality of primer and paint, stencil letter cutting for numbers, direction, chainage, etc. restoration of area to original condition and performing all works as per drawings, specifications and instruction of Owner/Owner's Representative.						
17	Pipeline Warning Signs	14	Nos	7,850.00	3,135.00	150.40%	AHR
18	Right-of-way boundary markers	22	Nos	1,459.00	1,650.00	-11.58%	
19	Kilometer Markers	4	Nos	8,500.00	3,732.00	127.76%	AHR
20	Aerial Markers	1	Nos	9,000.00	15,180.00	-40.71%	
21	Directional Markers	69	Nos	7,280.00	3,765.00	93.36%	AHR
22	Repair of Defects in Pipe Coating (Attributable to OWNER)						

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TRACTEBEL ENGIE	ANNEXURE - V DETAILS OF AHR ITEMS FOR LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010					PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
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				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL		
23	Repair of Line Pipe Coating: Supply of all coating repair materials as per the requirements of the relevant specifications, supply of all consumables, utilities, equipment, and all manpower required, pipe cleaning and surface preparation, repairing of coating defects (resulting in holiday in coating) and testing including all handling, transportation, etc. for line pipes, performing all works necessary for the completion of the works strictly in accordance with the relevant specifications and instructions of OWNER.						
24	Repair of Holidays in Coating	20	Nos	280.00	958.00	-70.77%	
25	Repair of Cosmetic Defects in Coating: Description of same as in item no 23 above, but for repair of cosmetic defects in coating.	30	m3	475.00	2,319.00	-79.52%	
26	**Repair of Defects in Line Pipes**						
27	Repair of OWNER supplied pipes of all wall thicknesses, recorded at the time of taking-over by CONTRACTOR at all places of work.						
28	Cutting and rebevelling	15	Nos	550.00	3,469.00	-84.15%	
29	Jack out method	15	Nos	25.00	3,469.00	-99.28%	
30	All works for locating burst (occurred during hydrostatic testing and tightness test attributable to Owner issued materials) including detecting burst, necessary repairing/replacing defective pipe lengths, including cutting out and removing the defective pipe, pretesting the replacement pipe, welding of replacement pipe into mainline and NDT of welding, repair and re-testing of defective welds, coating of welded joints, cleanup, retesting including providing all labor, materials, consumables and inputs other than OWNER supplied materials and performing all works as per drawings, specifications and directions of Owner/ Owner's representative. In case of pinhole leaks not easily detectable all works for locating leak (occurred during mechanical resistance test and tightness test attributable to Owner issued materials) including detecting leak, The Payment will be made as per actual efforts and based on Equipment and manpower Rate provided in SCC . Further replacement & retesting will be paid as above.	2	Per burst	1,50,000.00	1,49,545.00	0.30%	
31	LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER) (FOR TERMINAL PIPING) LEAKS/ BURSTS (ATTRIBUTABLE TO OWNER DUE TO FIM) All works for leak/burst (occurring during hydrostatic testing) by necessary repair/replacement of defective pipe length, including cutting and removing out defective pipes, welding, NDT of welds, repair and re-testing of defective welds, painting of welded joints, clean-up, re hydro testing of the pipe segment including providing all necessary equipment, labour, materials, consumables and inputs other than Owner supplied materials and performing all works as per drawings, scope of work, specifications, standards enclosed with the Contract and directions of Engineer-in-Charge. Note: 1. This rate shall be applicable for manufacturing defects in Company supplied materials only.	6	Inch-meter	1,950.00	1,037.00	88.04%	AHR
32	IDLE TIME PRESERVATION OF PIPELINE Preservation of complete pipeline and associated facilities and its maintenance including supply of all consumables, all equipment, man- power, etc., complete as per the requirements of specifications, scope of work, standards, other provisions of Contract document and instructions of Engineer-in- Charge. By filling and pressurizing with nitrogen including supply and maintenance of nitrogen as per following details:						

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				UNIT PRICE-L1 BIDDER	**UNIT PRICE-TRACTEBEL**		
33	Pipe OD - 8 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - 3 MONTH	6030	M	198.00	27.00	633.33%	AHR
34	Pipe OD - 8 INCH, Nitrogen Pressure - 2 bar(g), Specified Period - FOR EVERY ADDITIONAL MONTH BEYOND INITIAL 3 MONTHS	6030	M	90.00	27.00	233.33%	AHR
35	**PRE-COMMISSIONING FOR NATURAL GAS PIPELINES SYSTEM, Carrying out pre-commissioning activities and pre-commissioning checks to the specified acceptance criteria, making the entire pipeline system ready for commissioning (It includes cleaning including magnetic cleaning, Electrical Geometrical Pigging survey, dewatering, swabbing,, pre-drying activity, Golden-tie ins connecting the stations),, supply of all equipment, man-power, consumables, including all type of pigs and required quantity of nitrogen, materials for all temporary works and performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.**						
36	Pipe OD - 8 INCH	6030	M	160.00	27.50	481.82%	AHR
37	**Commissioning Assistance**						
38	OVERALL COMMISSIONING OF ENTIRE PIPELINE SYSTEM Overall commissioning including system checks, inertisation (as required) and charging of entire pipeline system, including all stations and all associated facilities including notifying the Company that the pipeline system is ready for commissioning; Review of status jointly with the Company and obtaining final clearance for start of commissioning; Development and submission of commissioning procedures, obtaining Company approval thereupon, carrying out overall commissioning of the total pipeline system including all facilities and all necessary coordination/ liaison with other Contractor(s) operations; Carrying out commissioning; Supply of all equipment like Nitrogen vapourisers (as required), along with all piping and instruments, temporary venting/ flaring/draining facilities as applicable, man-power, consumables including pigs and required quantity of Nitrogen (as required); Performing all associated works, complete as per the relevant specifications, Drawings, scope of work, PTS- Construction of Natural Gas Pipelines, GTS, standards, other provisions of Contract document and instructions of Engineer-in-Charge.						
39	Pipe OD - 8 INCH	6030	M	170.00	27.50	518.18%	AHR
40	PIPELINE INFORMATION MANAGEMENT SYSTEM Providing pipeline information management system using web based software for monitoring pipeline construction progress and providing all "As Built" data & drawings for entire length of pipeline as per specifications enclosed with the tender document.	1	LS	55,000.00	15,00,000.00	-96.33%	
41	VIDEO FILM & PHOTOGRAPHY OF CONSTRUCTION ACTIVITIES Preparation of high resolution video films with audio commentary and Industrial photography covering all aspects/activities of pipeline construction annotated as required, conversion of same to video DVD/Blue Ray format, submitting three (3) sets of the same as per details in scope of work document	1	LS	65,000.00	2,91,931.01	-77.73%	
42	**FABRICATION OF LR BENDS :**						

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				UNIT PRICE-L1 BIDDER	**UNIT PRICE-TRACTEBEL**		
43	Fabrication of 6D bend / LR (Induction) bends as per the relevant standard & Specification attached with the tender document from free issue linepipes (mother pipe) including but not limited to the following: "Receiving and taking over of free issue linepipes" from GAIL Dump Yard location as mentioned in Scope of Work, carrying out inspection of line pipe at the time of receive taking over in the presence of Company representative, carrying out repair of pipe defects attributable to Contractor after taking over, including supply of consumables & equipments; handling, hauling, transportation and loading/unloading required to transport the mother pipes between place of issue, LR bend fabricator/ manufacturer, intermediate storage as required, and final delivery of fabricated LR Bends to the worksite(s), as per requirement, Manufacturing/ fabricating of LR Bends, as per project requirements and Specifications. LR bends exact angle(s) shall be as per pipeline alignment. Note:- 1. Rate for repairing of defects in linepipes identified and recorded at the time of receiving & taking over i.e. defects attributable to Company shall be quoted separately in the applicable items of the SOR. 2.Loading of Pipe into installation contractor trailer shall be carried out by the GAIL Dumpyard maintenance agency already engaged by the Company.						
44	Bare Pipe ND 8", API5L X60 - 6.4mm	8	Nos	1,04,000.00	83,600.00	24.40%	
45	Bare Pipe ND 8", API5L X60 -7.1 mm	15	Nos	1,15,000.00	88,000.00	30.68%	
46	**SUPPLY AND INSTALLATION OF CASING PIPE & 6 INCH CS CONDUIT:** Supply and installation of casing pipe and 6 inch CS conduit for OFC by jacking / boring or open cut for rail, road or canal crossings wherever required in all types of soils and terrain separately for carrier pipes and fibre optic cable inside HDPE duct, supply of casing pipes and all other Contractor supplied materials viz. casing insulators and casing end seals as per enclosed drawing, materials for casing vents and drains, etc. including transportation, supply of all other materials, equipments, consumables, man-power, welding including visual inspection of all weld joints, installation of casing insulators, end seals, vents and drain-off pipes, backfilling and restoration as original of the facility crossed and performing all works as per drawings, specifications including PTS and GTS and instructions of Engineer-in Charge and provisions of Contract document.						
47	Supply and installation of Casing pipe by Boring / Jacking as per item no. 46 (Railway crossing) Casing Pipe Details: (Pipe 14" , 8.7 mm Thick, API 5L GR.B)	200	M	20,000.00	22,000.00	-9.09%	
48	Supply and installation of Casing pipe by Boring / Jacking as per item no. 46 (Other than Railway Crossings) Casing Pipe Details: (Pipe 14" , 6.4 mm Thick, API 5L GR.B)	12	M	12,500.00	12,100.00	3.31%	
49	Supply and installation of 6 inch CS Conduit by Boring/Jacking as per item no. 46 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	200	M	11,200.00	6,600.00	69.70%	**AHR**

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TRACTEBEL ENGIE	ANNEXURE - V DETAILS OF AHR ITEMS FOR LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010					PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
						Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

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				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL		
50	Supply and installation of Casing pipe by open cut as per item no. 46 Casing Pipe Details: (Pipe 14" , 6.4 mm Thick, API 5L GR.B)	12	M	9,500.00	5,500.00	72.73%	AHR
51	Supply and installation of 6 inch CS Conduit by open cut as per item no. 46 Casing Pipe Details: (Pipe 6" , 6.4 mm Thick, API 5L GR.B)	12	M	10,700.00	4,400.00	143.18%	AHR
52	**HDD CROSSING**						
53	**Generalities**						
54	Topographic / Bathymetry, Geotech Investigation and Hydrological data collection						
55	Site preparation						
56	Design & stress calculations as per requirement						
57	Material hand-over and material handling						
58	Site reinstatement						
59	Final dossier including all notes & calculations as required in the specification						
60	***Installation of 6 inch CS Conduit***						
61	Teletransmission--Separate Drilling for 6 inch CS Conduit for OFC installation						
62	Installation of HDPE duct & OFC cable inside 6 inch CS conduit						
63	Drilling & Pulling of 6 inch CS Conduit shall be done before mainline HDD.						
64	***Pipeline string***						
65	Beveling & welding						

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				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL		
66	Inspection & testing of welds						
67	Field joint coating						
68	Temporary support (roller)						
69	Control of pipeline string						
70	Hydrotesting & leak test						
71	***Drilling operation***						
72	Earthwork entry / exit points including grading erection of embankment etc..						
73	Supply & clearing out of all material needed for drilling						
74	Drilling of washer pipe, reaming & cleaning of drill opening, supply and preparation of bentonite						
75	Pull back of the pipe string						
76	Disposal of surplus of soil & bentonite						
77	Control of the integrity of the coating						
78	***Work at entry point***						

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				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL		
79	Changes in direction						
80	Beveling & welding						
81	Inspection & testing of welds						
82	Field joint coating & coating of all bare section of pipe						
83	Earthwork						
84	Lowering-in						
85	backfilling as required						
86	***Work at exit point***						
87	Changes in direction						
88	Beveling & welding						
89	Inspection & testing of welds						
90	Field joint coating & coating of all bare section of pipe						
91	Earthwork						
92	Lowering-in						
93	backfilling as required						
94	Complete work for the water/ Road/ Rail crossings, including taking over and handling of linepipes from Contractor Storage Yard to worksite, Arrangement of all additional land required for Contractor's storage, fabrication, access for construction; construction design calculation and engineering of the crossing, mobilization and demobilization at site(s), supply of all materials as per "Scope of Supply" and all consumables, equipment, manpower and other resources, and acquiring the required land for site preparations, and execution of, but not limited to, the following works in accordance with specifications, drawings, and as per provisions of the Contract document and instructions of the Company/ Engineer-in- Charge: Carry out all surveys required for collecting data relevant to design and construction of the crossing, preparation of all necessary construction drawings for Company's approval as per the provisions of the Contractor document, Preparation of detailed construction method statement and calculations including Scour Depth calculations for river/ canal crossings, Strings preparation including welding, 100% Radiography of welds, NDT of welds and re-beveled areas, radiography, weld repair and re-test, pre-testing of completed string, corrosion coating of field joints with Dirax or equivalent, inspection of corrosion coating and repair of defects, Preconstruction surveys and collection of all necessary data, Installation of pipeline and CS conduit (6 Inch CS Conduit shall be installed through Seperate Drilling) , horizontal directional drilling to the correct profile as per approved drawings and specification, Post-installation hydrotest including leaks and repair of defects and retesting, etc. for defects attributed to Contractor's faulty work, Supply, fabrication and construction of protective fencing as required, Hydrotesting, Supply, fabrication and erection (reparation of as-built drawings and other records etc., All other works not specifically listed herein, on of contract document, calculations, and construction method statements, leading to successful compl						

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				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL		
95	Linepipe details:- (Pipe 8" dia, Wall Thickness: 7.1 mm, Pipe Grade: API 5L GR.X-60 PSL 2, External Coating: 3LPE) CS Conduit details: (Pipe 6" dia, 6.4mm Thick, API 5L GR.B) Note: 1. CS Conduit shall be supplied by the Contractor. Radiography & Hydrostatic testing is not required to be done for CS Conduit. (6 Inch CS Conduit shall be installed through Seperate Drilling) Contractor shall quote accordingly. 2. The rate shall be applicable for the drilled length of the HDDs. All above works shall be executed in accordance with scope of work, GTS,PTS, Drawings and other provisions of contract document and instructions of Owner/Owner's representative, including but not limited to carrying out the above works. This line item is applicable for HDD crossing mentioned in the Crossing List with prior approval of Engineer -In-Charge during Construction.	192	M	18,500.00	32,445.00	-42.98%	
96	**SUPPLY & INSTALLATION OF OPTICAL FIBBE CABLE AND HDPE DUCT**						
97	Suppy of 24 Fibre Composite armoured Optical Fibre Cable drum (6 fibre G-655 & 18 fibre G-652) of 4 km +/-5% Cable drum length with fiber terminal closure, inspection chamber, electronic route marker all along pipeline route, Two number electronic locater as per PTS-Optical Fibre cable and Scope of Work C&I along with all required accessories and fitments not mentioned seperately.	7000	M	135.00	75.00	80.00%	AHR
98	Inspection/Jointing Chamber (fabricated or readymade)	3	Nos	7,800.00	6,325.00	23.32%	
99	Blowing Pit (fabricated or readymade)	7	Nos	4,500.00	6,325.00	-28.85%	
100	Supply of jointing closure 24 Fiber, 2 way including all accessories (3M, Siemens, Reychem make only)	3	Nos	15,000.00	3,450.00	334.78%	AHR
101	Supply of End to End OFC termination of wall mounted FTC with pig tails other accessories for termination of OFC - 24 Fibre in the Telecom Room at Jharia & SV28	2	Nos	28,500.00	17,250.00	65.22%	AHR
102	Electronic marker	3	Nos	7,500.00	4,025.00	86.34%	AHR
103	Electronic Locator	1	Nos	10,500.00	2,30,000.00	-95.43%	
104	Supply of 50mm OD permanently lubricated HDPE telecom duct along with all the required accessories as per PTS-Optical Fibre cable and Scope of Work C&I	7000	M	130.00	73.50	76.87%	AHR
105	Laying of HDPE Duct : Laying of 50mm HDPE Ducts in same pipeline trench direct buried, or inside 6 inch CS conduit at various crossings as per Specification in all type of soil & terrain, excavated as required, padding, backfilling, etc. including supply of accessories required for HDPE Duct installation, including plastic couplers, end plugs, cable sealing plugs, end caps, etc. suitable & sufficient for above supplied ducts, cleaning and sealing of ducts at the end laid drum lengths, preparation and supply of cable blowing pit at each Km jointing of HDPE duct, testing of HDPE Duct and accessories after laying preparation of report and final drawing and documents as per specification, joint location marking, erection accessories, as-built, etc.	7000	M	75.00	29.00	158.62%	AHR

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106	Blowing of Optical Fibre Cable inside HDPE Duct : All activities pertaining to Blowing of Optical Fibre Cable in same pipeline trench directly (after testing drum at site), inside HDPE duct along the pipeline and at crossing, sealing using all materials required as per specification	7000	Nos	65.00	39.50	64.56%	AHR
107	Installation of FTC & Wire mesh, termination of OFC on FTC / DDF inside telecom room, splicing with steet fibre, fibre test, OTDR test, power testing of laid OFC, identification of fault, rectification, earthing, final testing and commissioning, preparation of reports, etc. work complete in all respect with all necessary accessories for all location till final Handing Over and Taking Over by Owner of laid OFC.	1	LS	30,500.00	86,250.00	-64.64%	
108	**TRANSPORTATION OF COATED AND BARE LINEPIPES FROM GAIL DUMPYARDS (ANY LOCATIONIN INDIA) TO CONTRACTOR STORAGE YARD:**						
109	"Receiving and taking over" of "free issue" Linepipes from GAIL Dump Yard location (any location in India); Carrying out inspection of Linepipes at the time of receiving and taking-over, recording of pipe & coating defects at the time of taking over in the presence of Company's representative, carrying out repair of coating defects & pipe defects attributable to Company; including supply of materials, consumables & equipments; handling, hauling and transportation from designated place of issue to Contractor Storage Yard; unloading and stacking of the linepipes at Contractor Storage Yard; including arranging all equipments, trailers, trucks & manpower; all works as per Scope of Work, drawings, PTS, GTS and other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, Provision of Contract & instructions of Engineer InCharge.						
110	Linepipe Details:- Coated and Bare Line Pipe 8" diameter API 5L Gr. X-60 PSL-2 Wall Thickness - 6,4mm / 7.1mm External Coating - 3LPE, Internal Coating - Liquid Epoxy 1) Loading of Pipes into Installation contractor's trailer shall be carried out by the contractor. 2) Development & Maintenance of Contractor Storage Yard adequate to store the linepipes including arrangement of all Lifting & Handling equipment at Contractor's Storage Yard shall be done by the Contractor. Rate for the same shall be quoted in applicable items. 3) Rate for repairing of coating defects in linepipes identified and recorded at the time of receiving & taking over i.e. coating-defects attributable to Company shall be included in this item. 4) Rate for repairing of pipe-defects identified and recorded at the time of receiving & taking over i.e. pipe-defects attributable to Company shall be quoted separately in the applicable items of the SOR. 5) Transportation of line pipe from Contractor's Storage Yard to work site is included in SOR item 1 above, No separate payment will be applicable for the same.	350000	Ton-Km	8.00	31.90	-74.92%	
111	TRANSPORTATION OF FREE ISSUE PIPING ITEMS (OTHER THAN LINE PIPE) FROM GAIL STORAGE YARDS (ANY LOCATION IN INDIA) TO CONTRACTORS YARD / WORKSITE(S) : "Receiving and taking-over", handling, lifting, loading, transportation and unloading of Company supplied "free-issue materials" (Other than line pipe) viz. Metering Filtering and PRS Skid, Scrapper Launcher/ Receiver & accessories, Valves with or without Actuators, Insulation Joints, Flow Tee, Pig Signallers, fittings, flanges etc. from GAIL Storage yards location (any location in India) to Contractor's Storage Yard / work-site(s). Note:- 1) Location of GAIL Storage Yard shall be anywhere in India. Contractor shall quote accordingly. 2) Transportation of FIM from Contractor's Storage Yard to work site, is included in SOR item 119 below, No separate payment will be applicable for the same.	24000	Ton-Km	20.00	42.00	-52.38%	
112	**DEVELOPMENT OF CONTRACTOR STORAGE YARD:**						

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113	Development of the Contractor Storage Yard including fencing, illumination etc., including deployment of all lifting and handling equipments, manpower required to stack, unload and load all Free Issue Material (FIM) including Line Pipes and all bought out items, as required; storage of all Free Issue Material and bought out items for the required duration as per project requirement, all works as per Scope of Work, drawings, other provisions of the Contract and instructions of Engineer-in-Charge; all associated works not indicated herein but required to complete the work as per Scope of Work, PTS, GTS and Provision of Contract & instructions of Engineer In-Charge. The storage yard shall be used for storage of all Free Issue Line pipes, all other Free Issure Material (FIM) and all bought out items required for the project. Notes:- 1) Development of contractor storage yard adequate to store all the material required for Project, including all Free Issue Material (FIM) and bought out items. (Rate for the same shall be captured in this item) 2) Maintenance of contractor storage yard for the entire project period is included in the scope of contractor. No separate payment shall be applicable for the same.	1	LS	3,50,000.00	10,94,390.00	-68.02%	
114	Hard Rock breaking by controlled blasting / chiseling method (rate will be applicable in case when prior approval for rock breaking is obtained by the contractor from GAIL / PMC)	50	M3	1,925.00	948.42	102.97%	AHR
115	Clean Agent Fire Supression System as per Scope of Work	1	LS	65,000.00	14,76,742.19	-95.60%	
116	Restoration of underground utilities (pipes & cables) during excavation at ONGC, GCS Jharia and Receiving Station (which is inside SV-28 Premises)	5	Nos	25,000.00	27,500.00	-9.09%	
118	**SECTION-B [MECHANICAL (PIPING & TERMINAL WORKS)]**						
119	**PIPING WORKS AT DESPATCH AND RECEIVING STATIONS AND HOOK-UP WITH ONGC GCS, JHARIA** All works for installation of all piping at all elevations for Despatch and Receiving Stations as indicated in Drawings, Scope document, including supply of all consumables, Gaskets, nuts, bolts Studs, manpower, materials and equipment (except Company supplied free-issue materials), aligning, grouting, tie-in with pipeline and carrying out all mechanical works of underground and above ground piping including fabrication, welding, installation of all pipes, valves (manual & actuated), flanges, fittings, flow tees, pig signalers, insulating joints, corrosion monitoring probes /corrosion coupons, installation of instruments (pressure/temperature gauges, vents, drains-off, safety relief valves, electro hydraulic valves etc.) as indicated in P& IDs and GADs. 100% Radiography of weld joints of piping above 1.5 inch, Magnetic particle & Die penetration test for piping 1.5 inch & below, all NDT of welds, weld repairs/retesting, hydrostatic testing, cleaning/flushing, functional testing, de-pressurizing , Drying and dewatering, cutting and re-beveling (as required), hookup of all pipeline/utilities at the battery limit with the pipeline/utilities installed by others, obtaining all statutory clearances, approvals and permissions for the work (wherever required), excavation and filling in all types of soils including soft/hard rock for installation of piping/ pipe supports; corrosion coating and external painting (as required), finishing, clean-up and restoration of site, preparation of as- built drawings, documents and project records and performing all works as per drawings, specifications, other provisions of Contract document and instructions of Engineer-in-Charge. Civil/ structural works for piping supports will be paid separately as per unit rate provided elsewhere in the contract. Cost of Transportation of all materials (Including FIM mentioned above) for station works, from Contractor's own stock-yard to Work site, to be included in this SOR item. No separate payment will be applicable for the same.						
120	Fabrication and Erection of piping as per item no.110, (For Pipe Size 2 Inch and above, 100% Radiography) Note: 1. Rate for Handling, Fabrication and erection of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item. Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor.Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes 2" & above, shall also be part of this item. Contractor shall quote accordingly.	1500	INCH DIA METER	1,875.00	870.87	115.30%	AHR

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121	Fabrication & Erection of Piping as per item no. 110 (For Pipe Size Below 2 inch, Magnetic particle & Dye Penetration Test as per the requirement of specification) Note: 1. Rate for Handling and installation of pipe, flange, fittings, valves, gaskets, nuts, bolt stud, etc. shall be part of this item.Suppy of all Gaskets, Stud-Bolts & Nuts for all the flanged joints (applicable for free issued materials as well as Contractor supplied materials) to be used in the piping shall be provided by the contractor. Contractor shall quote accordingly. 2. Installation of all Valves of all types and ratings, and sizes below 2", shall also be part of this item. Contractor shall quote accordingly.	50	INCH DIA METER	1,995.00	1,109.02	79.89%	AHR
122	Painting of Piping (Pipe, Fittings, Flanges, Valves, Equipments, etc.) as per item no. 110	1550	ICH METER	450.00	83.00	442.17%	AHR
123	Hydrostatic testing, cleaning / flushing, functional testing, de-pressurizing, dewatering & drying of Piping as per item no. 110 (for all size upto 10").	1550	ICH METER	180.00	67.54	166.51%	AHR
124	**INSTALLATION OF COMPANY SUPPLIED FIM (FML SKID AND PIG LAUNCHER/RECEIVER SYSTEM) AT DESPATCH TERMINAL AND RECEIVING TERMINAL**						
125	Installation of Company supplied Filtering, Metering and PRS Skid and Scrapper Launcher/ Receiver with accessories, at stations including all handling and installation works; as per drawings, specifications enclosed with the Contract and directions of Engineer-in-Charge. Cost of Transportation of above Free issue items, from Contractor's own stock-yard to Work site for station works, to be included in this SOR item. No separate payment will be applicable for the same.	1	LS	1,50,000.00	4,95,000.00	-69.70%	
126	**CONTRACTOR SUPPLIED ITEMS:(Supply of Items as per attached PTS,GTS,Data Sheet,QAP and PMS)**						
127	**Station pipe -Seamless**						
128	1" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, PE, SEAMLESS	6	METER	1,550.00	1,109.00	39.77%	
129	2" pipe, SCH. 160, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	90	METER	2,896.00	2,068.00	40.04%	
130	4" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	135	METER	3,250.00	3,046.00	6.70%	
131	8" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	50	METER	5,275.00	3,850.00	37.01%	
132	8" pipe, 6.4mm thk, ANSI B 36.10, API5L X 60, BE, HFERW/SEAMLESS	29	METER	5,800.00	1,985.50	192.12%	AHR
133	10" pipe, SCH. 80, ANSI B 36.10, ASTM A333 GR.6, BE, SEAMLESS	12	METER	7,200.00	11,614.00	-38.01%	

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134	**Supply of Fitting & Flanges**							
135	1 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 350 LF2,CL1, BW, ANSI B16.25	4	Nos	1,750.00	1,298.22	34.80%		
136	2 INCH 90 ELBOWS LR, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25.	3	Nos	2,260.00	1,793.00	26.05%		
137	1" WNRF FLANGES, 6C1, SCH. 160 / 600#, WNRF, B-16.5, ASTM A350 LF2, CL1, BW-ANSI B16.25 RF	4	Nos	1,860.00	1,098.00	69.40%		AHR
138	8", WNRF FLANGES, 6C2, 6.4 thk/ 600#, WNRF, B-16.5, ASTM A694 F60 OR EQUIVALENT, CL1, BW-ANSI B16.25 RF.	5	Nos	7,850.00	9,453.00	-16.96%		
139	1", BLIND FLANGES, 6C1, 600#, RF, B-16.5, ASTM A350 LF2, CL1, RF	4	Nos	1,650.00	968.00	70.45%		AHR
140	3/4" EQUAL TEES, 6C1, SCH. 160, B-16.9, ASTM A 420 WPL 6, BW, ANSI B16.25,	1	Nos	1,550.00	323.00	379.88%		AHR
141	3/4", CUP THREADED 6C1, 6000#, ANSI B16-11, ASTM A 350 LF2, CL1 , BW - ANSI B16.25, ANSI B1.20.1,	3	Nos	1,550.00	215.60	618.92%		AHR
142	**WELDOLETS (MAINLINE x BRANCH SIZE)**							
143	4" x 1", WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1 ,	2	Nos	950.00	2,296.88	-58.64%		
144	8" x 2" WELDOLETS, (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, 6.4 THK. / 600# x SCH. 160 / 600#, 6C1, ASTM A 694 F60	13	Nos	1,450.00	6,545.00	-77.85%		
145	8" x 2", WELDOLETS (MAINLINE x BRANCH SIZE), BW, ANSI B16.25, SCH. 80 / 600# x SCH. 160 / 600#, 6C1, ASTM A 350 LF2, CL1	26	Nos	1,785.00	6,545.00	-72.73%		
146	**GASKETS**							
147	GASKETS, 6C1, 600#, RF, ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 1"	12	Nos	120.00	82.06	46.23%		
148	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 2"	210	Nos	175.00	128.92	35.74%		
149	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 4"	30	Nos	220.00	286.44	-23.20%		
150	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING PURE GRAPHITE. CENTERING RING CS, 4.5 mm THK, 8"	47	Nos	280.00	654.72	-57.23%		
151	GASKETS, 6C1, 600#, RF , ASME B 16.20, WINDING AISI 304, FILLING m THK, 10"	2	Nos	280.00	1,100.00	-74.55%		

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TRACTEBEL engie	ANNEXURE - V DETAILS OF AHR ITEMS FOR LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010					PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
						Owner- GAIL (INDIA) Ltd.	Price Bid Opened on- 07.02.2022

Sl. NO.	ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR			AHR ITEMS
				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL		
152	**NIPPLES**						
153	NIPPLES, 6C1, Sch 160 /600#, ANSI B 36.10, ASTM A333 GR.6, BOTH ENDS PLAIN, SEAMLESS-LG=100mm, 3/4"	12	Nos	1,050.00	322.30	225.78%	AHR
154	NIPPLES, 6C1, Sch 160 / 600#, ANSI B 36.11, ASTM A333 GR.7, ONE END THRD -MNPT SEAMLESS- LG=100mm, 3/4"	8	Nos	1,050.00	322.30	225.78%	AHR
155	**INSULATING JOINT**						
156	INSULATING JOINT 6C,16.4 mm (X60) x 600# ,MANUFACTURER STANDARDS ,ASTM A694 F60 ,BW - ANSI B16-25, 8"	2	Nos	1,20,000.00	64,020.00	87.44%	AHR
157	**Supply of following Valves as Per attached PTS,GTS,Data Sheet,QAP,PMS & MTO**						
158	1",BALL VALVE - FULL BORE (RF) (ABOVE GROUND),6C1	6	Nos	2,880.00	22,807.10	-87.37%	
159	3/4", CHECK VALVE (RF) (AG), 6C1	2	Nos	3,125.00	10,450.00	-70.10%	
160	3/4",NEEDLE VALVE, 6C1	5	Nos	2,975.00	20,350.00	-85.38%	
161	**Note (Applicable for all items of SOR Item No 126 to 160):** **1. Before procurement of any of the above materials Contractor will take prior approval from GAIL / PMC.** **2. Payment will be made for actual quantity used.**						
163	**SECTION-C [CIVIL / STRUCTURAL & ARCHITECTURAL]**						
164	**CIVIL , STRUCTURAL & ARCHITECTURAL**						
165	**Earthwork excavation in soil**						
166	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	1770	cum	225.00	255.51	-11.94%	
167	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth beyond 1.5m and upto and inclusive of 3.0m including Removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	50	cum	270.00	301.65	-10.49%	

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				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL		
168	**Earthwork excavation in soft rock**						
169	Earth work in EXCAVATION below ground level for all kinds of works in SOFT ROCK and HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as irected including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	130	cum	320.00	925.20	-65.41%	
170	**Backfilling after execution of work**						
171	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps within a LEAD OF 100M,including re- excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/ mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	580	cum	1,150.00	113.35	914.56%	AHR
172	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps beyond a LEAD OF 100M AND UPTO & INCLUSIVE OF 500M including re- excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	250	cum	1,325.00	140.54	842.79%	AHR
173	**Transporting & Disposing the SURPLUS EARTH AND DEBRIS**						
174	Transporting and disposing the SURPLUS EARTH AND DEBRIS including shrubs and vegetations from construction areas to areas ANYWHERE OUTSIDE THE PLANT BOUNDARY, including re-excavating the deposited soil excavated earlier, loading, transportation, unloading, laying at all depths and heights, stacking,levelling and dressing both the area (viz. from where the earth is transported and where it is deposited) to required levels and slopes complete with all lifts as directed. For carting on the basis of truck measurements (volume of truck reduced by 30% for voids). DISPOSAL AREAS OUTSIDE PLANT BOUNDARY TO BE ARRANGED BY THE CONTRACTOR. Royalty as applicable for disposal outside plant limits to be borne by the Contractor	760	cum	945.00	232.96	305.65%	AHR
175	**EARTH WORK FILLING BY EXCAVATION**						
176	EARTHWORK IN FILLING by excavating the earth from BORROW AREAS arranged by CONTRACTOR for all leads, transporting the earth from borrow area including cleaning & stripping the earth at borrow areas, breaking clods, loading, unloading and laying at all depths and heights in layers of thickness not exceeding 15 cms., watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% of the maximum laboratory dry density, ressing, trimming, levelling the top surface etc. in foundations, plinths, trenches etc. all complete.	4725	cum	1,650.00	595.66	177.00%	AHR
177	**PLAIN & REINFORCED CEMENT CONCRETE: (REFER SPECIFICATION NO. (Z/02/0004)**						
178	**PLAIN CEMENT CONCRETE - PCC**						

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				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL		
179	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:4:8 (1 cement : 4 coarse sand (Zone-III) : 8 graded stone aggregate 40 mm nominal size)	105	cum	2,450.00	5,528.71	-55.69%	
180	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:3:6 (1 cement : 3 coarse sand (Zone-III) : 6 graded stone aggregate 40 mm nominal size)	20	cum	2,950.00	5,850.19	-49.57%	
181	Providing and laying in position cement concrete of specified grade including the cost of centering and shutteringin 1:2:4 (1 cement : 2 coarse sand (Zone-III) : 4 graded stone aggregate 20 mm nominal size)	120	cum	3,250.00	6,482.74	-49.87%	
182	Providing and laying PLAIN CEMENT CONCRETE for all depths below and upto plinth level in foundations, drains, fillings, non-suspended floors, pavements & ramps or any other works etc. including shuttering, tamping, ramming, vibrating, curing, etc. all as specified in any shape, position, thickness and finishing the top surface rough or smooth as specified and directed all complete for concrete grade M20 with 20mm and down size graded crushed stone aggregates/Gravels. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR	110	cum	1,670.00	6,825.00	-75.53%	
183	**RCC WORKS**						
184	**SUBSTRUCTURE**						
185	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUBSTRUCTURE INCLUDING CENTERING & SHUTTERING) e.g. foundations, raft, beams, pile caps, Retaining walls, counterforts, buttresses, pedestals, pipe sleepers, columns, suspended floors, staircases, landings, steps, brackets etc., including equipment/ machine foundations & pedestals viz. compressors, generators, etc. (including single pour concreting as specified on the drawing), applying cement wash on concrete surface (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering, etc., wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT)for all depths below and upto plinth level in any shape, position and thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	615	cum	8,000.00	7,539.00	6.11%	
186	**SUPER STRUCTURE - EXCLUDING CONTROL ROOM BUILDING, GUARD ROOM & BOUNDARY WALL**						
187	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUPER STRUCTURE INCLUDING CENTERING & SHUTTERING in suspended floors, slabs, beams, columns, walls including counterforts, staircases, landings, steps, facias, fins, mouldings, gutters, shelves, window sills, canopies, lintels, girders, ducts, brackets, chajjas with drip moulds, pedestals, posts, struts, equipment/ machine foundations, ramps etc. (including single pour concreting as specified on the drawing), providing cement wash (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT) FOR ALL HEIGHTS UPTO & INCLUSIVE OF 20 m ABOVE PLINTH LEVEL in any shape, position, thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	70	cum	5,275.00	8,962.00	-41.14%	
188	**CONTROL ROOM BUILDING (SUPERSTRUCTURE)**						
189	Construction of Control Room Building as per drawings and specification. Building work for all Superstructure works INCLUDING CENTERING & SHUTTERING , Reinforcement , masonry work, partition wall, Plastering & pointing, flooring, Floor finishes, Door & windows, rolling shutter, false ceiling, all finishes, painting, roof treatment complete in all respect etc.)	215	m2	12,500.00	23,378.15	-46.53%	
190	**GUARD ROOM (SUPERSTRUCTURE)**						

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191	Guard Room as per drawings and specification. Building work for all superstructure works including (Reinforcement, masonry work Plastering & pointing, flooring, Floor finishes, Door & windows, painting, roof treatment, all finishes, water supply and sanitary work complete in all respect etc.)	17	m2	12,500.00	22,853.23	-45.30%	
192	**HYD Bars / MS Bars**						
193	Supplying and placing in position HIGH YIELD STRENGTH DEFORMED STEEL BARS REINFORCEMENT of Grade Fe500D TMT conforming to IS:1786, for RCC work (excluding control room building & Guard room & boundary wall superstructure) including transporting the Steel, straightening, cleaning, decoiling, cutting, bending to required shapes and lengths as per details, binding with 18 SWG black soft annealed binding wire at every intersection, supplying and placing with proper cover blocks, supports, chairs, overlaps, welding, spacers, fanhooks etc. for all heights and depths etc. all complete as directed. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE	70	MT	62,000.00	78,605.87	-21.13%	
194	**STRUCTURAL STEEL WORKS (REFER TE SPECIFICATION)**						
195	Supplying, fabricating and erecting of structural steel and applying COATING (Post-erection/ Field) of approved quality and shade as per TE Specification or Job Specifications, wherever applicable) over the coat of shop primer already applied, including storage, surface preparation, degreasing, cleaning, drying, providing necessary arrangement for access, testing etc. including touching up of shop for steel structures (Including Wicket Gate, Main Gate and emergency gate, excluding ladders, spiral stairways & hand rails) at all location & levels, all complete as specified, for UNIT (INLAND) areas considering environment classification as INDUSTRIAL. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE. (Unit rate based on Structural steel weight)	25.5	MT	68,000.00	1,32,000.00	-48.48%	
196	**MISCELLANEOUS STEEL WORKS (REFER TE - SPECIFICATIONS)**						
197	MS Chequered Plates						
198	Supplying, fabricating and erecting in position at all levels and locations bolted, screwed and/or welded M.S. CHEQUERED PLATES of any thickness in walkways, platforms, stairtreads or any other place as directed, etc. cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing, welding, preparation and submission of fabrication drawings and preparing the surfaces for painting and applying shop primer as per TE Specification after fabrication and return of unused/ scrap/ unserviceable chequered plates to Owner's store and material reconciliation etc. all complete as specified and directed	1.5	MT	75,000.00	92,728.34	-19.12%	
199	Anchor Bolts						
200	Supplying, fabricating, fixing and keeping in position at all levels and locations THREADED ANCHOR BOLTS of all diameters and nomenclature including nuts, washers, anchor plates, pipe sleeves etc. in foundations, columns, pedestals, slabs, beams, walls etc. or any other place as directed including handling & transporting, straightening if required, turning from relevant size M.S. rounds to required diameter, threading, welding, providing necessary templates and auxiliary dummy structures, if any, necessary tying and welding with reinforcement, adjustment of shuttering & reinforcement/any other fixture, greasing exposed metal surfaces, covering bolts and packing the sleeves with jute cloth etc. all complete as specified and directed.(SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.6	MT	62,000.00	1,12,713.10	-44.99%	
201	MS Metal Inserts						

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				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL		
202	Supplying, transporting, storing, fabricating and fixing in position M.S. METAL INSERT (with lugs) of any shape made out of flats, plates, rolled sections, pipes etc. providing necessary templates, staging, cutting,straightening, if required, bolting, welding as required and embedding in position on both Plain and Reinforced Cement concrete members inclusive of adjusting shuttering & reinforcement/ any other fixture, welding where necessary, tying and holding to correct level, line and position, any auxiliary dummy structures to support the heavy inserts, painting exposed surfaces with a coat of primer as per TE Specification all complete for all depths and heights as specified and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	0.55	MT	62,000.00	1,05,596.88	-41.29%	
203	MS Grating						
204	Supplying, fabricating and erecting in position at all levels and locations ELECTROFORGED GALVANISED GRATING (purchased from approved manufacturer by the Contractor) conforming to TE STANDARD (in walkways, platforms, stair treads etc.) including cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing with manufacturer's supplied galvanised clamps, preparation and submission of fabrication drawings, all complete as specified and directed (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	1.85	MT	1,10,000.00	1,45,138.65	-24.21%	
205	Hand Railing 1000mm						
206	Supplying, fabricating and fixing in position at all locations 1000mm high INCLINED HAND RAILING (for staircases) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade M.S. Tubes conforming to IS:1239 including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE SPEC. preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	1,050.00	4,034.88	-73.98%	
207	Supplying, fabricating and fixing in position at all locations 1000mm high HORIZONTAL HAND RAILING (for platforms, walkways, etc. or any other location as directed) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade MS Tubes conforming to IS:1239 and 100x5 MS Toe Plate confirming to IS:2062 (Grade A/B), including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, hot-dip galvanising (80-85 micron as per IS:4759, IS:2629, IS: 4736, IS:2633), shop primer (1 coat of P6 of 40 micron) as per TE standard drawing & specification, preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	10	M	1,050.00	4,012.73	-73.83%	
208	**CHAIN LINK FENCING**						
209	Supplying, fabricating and fixing G.I. chain link fencing with 3.5mm dia. wire, 50x50mm diamond mesh chain link fence fabric conforming to IS:2721 fixed to steel/RCC posts/struts above ground level, including supply of chain link fencing fabric in 1.9 metre wide rolls, stretcher bars, staples, etc. required for fixing the fencing, fixing of chain link fencing between straining posts, fixing of bottom of fencing in cement concrete 1:2:4 blocks and painting with synthetic enamel etc. , including supply and fixing line wires, complete as per drawings, specifications and directions of Engineer -in-Charge (All materials shall be supplied by Contractor). (The measurement of chain link fencing shall be on linear basis for 1.9 m wide fencing fabric)	10	M	1,250.00	5,593.00	-77.65%	
210	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of the Engineer-in-Charge. Made of G.I. wire of dia. 4 mm, PVC coated to achieve outer dia not less than 5 mm in required colour and shade.	600	M2	750.00	788.12	-4.84%	

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				UNIT PRICE-L1 BIDDER	**UNIT PRICE-TRACTEBEL**		
211	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Star' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	200	M	750.00	277.70	170.08%	AHR
212	**ROADS & FLEXIBLE PAVEMENT (UPTO WBM LAYER)**						
213	Preparation and consolidation of sub-grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth outside the property boundary in the un-disputed areas as directed by Engineer-In-Charge.	1500	M2	450.00	158.00	184.81%	AHR
214	Supplying and laying of stone aggregate of 63mm down to 45mm size for WBM layer Base Course, tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 75mm compacted thickness to proper grade, camber and level, filling voids with screenings and binding material of plasticity index upto 6%, including cost of supply of screening and binding material, consolidating with power driven road roller, watering, with all leads and lifts etc. complete as per drawings, specifications and directions of Engineer-in-Charge	4500	M2	280.00	397.46	-29.55%	
215	**CONCRETE PAVEMENTS**						
216	Construction of dry lean cement concrete **(DLC) sub base** over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in- charge.	150	cum	1,225.00	3,706.91	-66.95%	
217	Providing and laying Reinforced Cement Concrete with 20mm and down size graded crushed stone aggregates in flooring, pavements etc. including leaving pockets, if necessary, making recess/drains, laying in alternate panels, etc. for all depths including shuttering, tamping, curing, providing dowel bars with sleeves/tie bars etc where ever required at site. as specified in any shape, thickness, position and finishing the top surface smooth etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For RCC of M-30 grade concrete (all materials including cement but excluding cost of providing & fixing reinforcement and joint sealing shall be supplied by the contractor).	375	cum	5,250.00	8,357.97	-37.19%	
218	Providing 20mm wide Expansion Joints in pavement slabs as per general technical specification including cleaning the joints of all loose material, filling with 20mm thick impregnated fibre boards for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved Joint Sealing Compound as per IS:1834 Type-B etc. all complete as per drawings, specifications and directions of Engineer-in-Charge	720	M	1,550.00	15.35	9997.72%	AHR
219	Sealing joint around pedestal and column etc. 20mm wide x 150 mm deep including filling with 20mm thick impregnated fire board for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved joint sealing compound as per IS:1834 Type-B.	300	M	275.00	92.07	198.69%	AHR
220	**RCC PIPE CULVERTS & ELECTRICAL ROAD CROSSINGS ETC. (as per drawing & TE specification)**						
221	Supplying and laying in position RCC pipes with collars conforming to IS:458 for pipe culverts, cable crossings etc. including cutting the pipe if necessary, lowering, laying in position to proper levels, slopes etc. caulking the joints with spun yarn soaked in neat cement slurry and finishing with cement mortar 1:2 (1 cement : 2 sand) curing etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For following Class and Internal PIPE DIA (MM). (Dia (internal) - 500 mm, Pipe Class - NP3)	20	M	5,000.00	6,026.99	-17.04%	

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Sl. NO.	ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR			AHR ITEMS
				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL		
222	**U/G AND A/G G.I. PIPELINE SYSTEM - WATER SERVICES tender specification**						
223	Supplying and laying mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ ASTM A105 (Galvanized) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, earthwork in excavation for trenches, valve pits, etc. in all types of soil excluding soft and hard rock including laying of pipes in trenches, joining the pipes and fittings with threaded connections, hydrostatic testing of the piping, backfilling the trenches with selected/approved earth fill material, cutting of roads wherever required, making good the road surface after laying, disposal of surplus earth within a lead of 500 m, etc. including supply of necessary fittings etc. complete as per specifications, drawings and directions of Engineer-in-Charge. For following Nom.Size in mm. (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	650.00	1,072.56	-39.40%	
224	Supplying and laying above ground mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ASTM A 105 (GALVANISED) and as per piping materials specification Class including supply of teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, including laying of pipes on sleeper, walls, including erecting piping on columns, etc. for pump station, overhead tanks, etc. including joining the pipes and fittings with threaded connections, hydrostatic testing of the piping including supply of necessary fittings etc & pipe supports. complete as per specifications, drawings and instructions of Cement Supplied by contractor (Nom. Dia - 50 mm, Pipe class - J2A)	10	M	650.00	944.61	-31.19%	
225	**MISC. CIVIL AND STRUCTURAL WORKS FOR U/G PIPING AND OTHER CIVIL WORKS**						
226	Providing and laying brick masonry with locally available bricks of specified class (Brick of class lower than specified shall not be accepted) in cement mortar 1:4 (1 cement : 4 Coarse sand) in one or more brick thickness and in any shape in foundation and plinth for valve pits, drains, circular/square manholes, wing walls, etc. including providing recesses, openings, etc. including curing, finishing the joints flush below ground level and raking out joints in plinth with all labour and material, etc. complete as per drawings, specifications and direction of Engineering-Charge. For following Brick Class. All materials including cement supplied by the Contractor and. (Brick Class - 5)	280	cum	3,245.00	6,575.68	-50.65%	
227	Providing 13mm thick average cement plaster in cement mortar 1:3 (1 cement: 3 sand) on brick walls/stone masonry/pitching or on concrete surfaces for manholes, valves pits, culverts, wing walls, etc. including cleaning and preparation of the surface, scaffolding, curing etc. for all depths and heights complete as per drawings specifications and direction of Engineer-in-Charge. All materials including cement supplied by the Contractor.	750	M2	3,450.00	399.52	763.54%	**AHR**
228	**UNDERGROUND SEWER SYSTEM - RCC PIPES**						
229	Supplying and laying underground R.C.C. pipes sewers with socket and spigot ends conforming to IS:458 of approved make, to proper grade and alignment, including earthwork in excavation in all types of soil except soft and hard rock for pipe trenches, etc. including dewatering, shoring and shuttering if necessary, dressing of sides, leveling, grading and ramming of bottoms, cutting the R.C.C. pipes to required lengths, lowering the pipes, jointing, including connecting the pipes to manholes and grouting the pipe body with manhole wall using cement mortar 1:2 (1 cement : 2 sand), testing, draining of water and cleaning of pipe after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness , watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, including cutting of roads wherever required and making good the same, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit etc. complete for all depths as per drawings, specifications and instructions of Engineer-in-Charge.(All material shall be supplied by contractor) For following Pipe size (mm) and Class(The following pipe sizes are all internal diameter of the pipes)						
230	(Dia (Internal) - 100 mm, Piping Material Class - NP2)	15	M	750.00	2,033.78	-63.12%	
231	(Dia (Internal) - 150 mm, Piping Material Class - NP1)	15	M	1,250.00	2,258.21	-44.65%	
232	(Dia (Internal) - 450 mm, Piping Material Class - NP2)	70	M	1,750.00	2,219.20	-21.14%	

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				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL		
233	**UNDERGROUND SEWER SYSTEM-HDPE PIPES**						
234	UNDERGROUND SEWER SYSTEM-HDPE PIPES :- Supplying and laying HDPE pipes conforming to IS:4984 of approved make to proper grade and alignment, including earthwork in excavation for trenches etc. in all types of soil except soft and hard rock including dewatering till completion of subsequent works, shoring and strutting, if necessary, dressing the sides, leveling, grading and ramming the bottom, jointing the pipes using hot plates as per manufacturer's recommendation, lowering, providing and laying 1:5:10 (1 cement : 5 sand : 10 aggregate) plain cement concrete of minimum 100mm thickness on bottom and side of pipe as directed, connecting the pipes to manholes and grouting the pipes to manhole/valve chamber walls, including supplying and fixing the specials and fittings, such as bends, reducers, tees, elbows, caps etc. conforming to IS:8008 or fabricated from pipes as per specification, supplying and fixing of flanges, fixing of online valves, including fixing of bolts, nuts and gaskets etc. as per specifications, testing, draining of water and cleaning of pipes after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness, watering and compacting with mechanical means like vibro rammers etc. to 90% standard proctor density as per IS:2720 Part-VII, making good the surface, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit, cutting of road wherever required, making good the same etc. complete for all depths as per drawings, specification and instruction of Engineer-in- Charge. For the following nominal diameter (mm) Pressure Rating(Kg/Cm2). (Dia (Internal) - 80 mm, Pressure Rating - 2.5 Kg/sqcm)	50	M	750.00	888.05	-15.55%	
235	**PLUMBING AND BUILDING DRAINAGE**						
236	Supplying and fixing approved quality Cast Iron soil/waste pipe conforming to IS:1729 below ground with necessary specials, bends such as Y-junction, T-junction (both single and double) including plugs, shoes, cowls, jointing with lead caulked joints and testing, cutting in floors, earth work in excavation, encasing the pipe in 50mm THK, PCC M20, backfilling and removal of surplus earth upto a lead of 50M etc. complete as per drawings, specifications and directions of Engineer-in-Complete						
237	100mm dia (All materials including cement supplied by contractor)	10	M	45.00	1,418.34	-96.83%	
238	80mm dia (All materials including cement supplied by contractor)	10	M	45.00	805.32	-94.41%	
239	**Supplying and fixing gun metal globe valve conforming to IS:778, complete as per specifications and directions of Engineer-in-Charge.**						
240	Dia - 50 mm	2	Nos	25,000.00	5,082.95	391.84%	AHR
241	**Constructing of brick masonry valve chamber in 1:4 Cement mortar(1 cement: 4 sand) with CI frame & cover fixed on M-20 grade cement concrete , necessary excavation, M-20 grade foundation concrete, 13mm thick 1:3 cement plaster on inside & all exposed surfaces, backfilling, removal of surplus earth for all leads within the complex limit etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge. For following Valve size and Brick Class (All materials including Cement supplied by contractor)**						
242	Dia - 50 mm, Brick Class - 5)	2	EACH	25,000.00	59,230.06	-57.79%	
243	Providing and fixing approved stone ware 100mmx100mm dia. gully trap as per tender specification, including grating with CI frame and cover 300mmx300mm including brick masonry (brick class shall be as mentioned below) chamber in 1:4 cement mortar(1 cement: 4 sand) on M-20 grade cement concrete foundation, plastered inside and outside surfaces with 1:3 cement mortar (1 cement: 3 sand) with 13mm average thickness including providing and fixing light duty CI frame and cover, painting CI frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat, earth work in excavation, backfilling, removal of surplus earth, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry etc. all complete as per drawings, specifications and directions of Engineer-in-Charge						
244	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	25,000.00	23,199.64	7.76%	

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				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL		
245	Construction as per(Design basis & general technical specification) of brick masonry (brick class shall be as mentioned below) inspection chambers/manholes of 750mmx750mm internal size 1000mm deep(Max.) in cement mortar 1:4 (1 cement: 4 sand) with CI frame and cover 500mm clear dia, (circular Medium duty of grade MD-10) conforming to IS:1726 fixed on RCC slab of M-30 grade, necessary excavation, supplying, fixing 4 Nos. 16mm dia M.S. rungs, M-20 grade foundation concrete 1:3 cement mortar(1 cement: 3 sand) plastering of 13mm average thickness for inside & 16mm avg. thickness for outside exposed surfaces, backfilling, disposal of surplus earth upto a lead of 100M, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry, painting the C.I.frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat etc. all complete as per drawings, specifications and directions of Engineer-in-Charge.						
246	All materials including cement supplied by contractor and (Brick Class - 5)	2	Nos	35,000.00	40,208.89	-12.95%	
247	Construction, supplying, installation, testing and commissioning of septic tank as per standards and IS:2470 Part-I , with all necessary accessories like inlet, outlet vent pipes, manhole covers, rungs etc. including earthwork in excavation in all type of soil except soft and hard rock, backfilling and disposal of surplus earth for all leads etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge						
248	All material including cement supplied by contractor for (Users - 10 NOS)	1	Nos	48,000.00	1,00,017.92	-52.01%	
249	**MISCELLANEOUS ITEMS**						
250	Supplying and fixing in position entrance gate in complex boundary wall fencing manufactured out of steel frame work and square MS bars of 20 mm at 100 c/c and horizontal name plate band at lock rail level suitably hinged with box type steel post embedded in cement concrete i.e. providing the tension bar for smooth operation and locking arrangement etc. complete as per tender specification, including painting with two coats of anti-corrosive paint and two coats of approved aluminium/synthetic enamel paint etc. complete as per drawings, specifications and directions of Engineer-in-Charge.						
251	4.0M clear opening width of gate in two panels.	3	Nos	1,25,000.00	1,22,846.86	1.75%	
252	Supplying & Laying interlocking Paver Blocks for roads, footpaths and any other place etc. including providing 50 mm thick sand filling below Paver Blocks including compaction of sand layer, filling the joints by dry sand, providing precast kerb stone of PCC M-20 at edges, including preparation of compacted sub-grade etc. all complete as per drawing, standard and directions of Engineer-in-Charge. (All material including cement supplied by contractor, paver blocks shall confirm to IS: 15658. cloour and shape of paver block shall be as per owner requirements for following thickness of paver blocks						
253	**(Thickness - 60 mm)**	285	M3	1,050.00	1,233.29	-14.86%	
254	Supply and installation on terrace, high density polyethylene drinking water circular tank as per IS:12701 and ISI marked including supply and installation of all fittings, cover with suitable locking arrangement, float valve, making necessary holes for inlet, outlet and overflow connection and vent pipe etc. and the base supports for tank including supply of all necessary material all complete as per specifications and directions of Engineer-in-charge. (Sintex or equivalent having valid ISI license) for following capacities.						
255	**capacity - 500 litre**	2	Nos	5,500.00	8,232.26	-33.19%	
256	Supplying, installation, testing and commissioning of Upflow Anaerobic Filter with bleaching tank as per TE Std. Drawing with all necessary accessories like, Upstream inlet CI piping from septic tank, Downstream outlet RCC NP2 class piping up to surface storm water drains, CI pipes for filter chamber, CI valve, RCC pre-cast pit covers, steps, perforated pre-cast slabs etc., inlet chamber, Filter chamber, deluding chamber including earthwork in excavation in all type of soil including soft rock, backfilling with murrum or approved soil arranged by the contractor, disposal of surplus earth etc. complete as per drawings, specification and direction of Engineering-Charge (All materials including cement shall be supplied by the contractor, Brick Class lower than 5.0 shall not be used). - Upto 10 Nos. user	1	Nos	5,000.00	93,699.77	-94.66%	
257	**DEMOLISHING AND DISMANTLING**						
258	**Brickwork**						

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259	**Demolishing BRICKWORK** (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	240.00	2,098.92	-88.57%	
260	**Demolishing BRICKWORK** (taking all necessary safety precautions) for all heights **above plinth level** including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	270.00	2,052.38	-86.84%	
261	**RCC**						
262	**Demolishing RCC WORK** (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).	10	cum	350.00	2,783.12	-87.42%	
263	**Demolishing RCC WORK** (taking all necessary safety precautions) for all heights **above plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed.	10	cum	380.00	2,781.94	-86.34%	
264	**PCC**						
265	**Demolishing PLAIN CEMENT CONCRETE** work (taking all necessary safety precautions) for all depths **below plinth level** including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc. disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation and backfilling shall be paid separately under relevant items)	10	cum	240.00	2,098.65	-88.56%	
266	**MISCELLANEOUS ITEMS (REFER TE SPECIFICATION)**						
267	**Sand Filling**						
268	Supplying and filling approved SAND of specified quality under floors, in foundations, plinths, tank foundations etc. for all depths and heights including cost of sand,royalties,transportation to site for all leads and lifts, including loading, unloading, spreading in layers of loose thickness not exceeding 150 mm,watering,ramming,compacting with mechanical compactors and/or other equipment to the specified levels to achieve 85% relative density as per IS:2720 Part XIV,including preparation of subgrade to the required slope, providing testing apparatus and testing the degree of consolidation all complete as per drawings, specifications and direction of Engineer-in-charge. The rates shall be inclusive of the cost of all labour,material,equipments etc. all complete .	100	cum	450.00	1,405.10	-67.97%	
269	**SAND GRAVEL MIX**						
270	Supplying and filling sand gravel mix (1:1) with approved aggregate below road, RCC pavement, manholes, pits, foundations, bedding of UG piping etc. in layers of 150 mm loose thickness (maximum) including watering, ramming, rolling, compacting to achieve 85% relative density as per IS 2720 Part-XIV, quarrying, royalties, transportation, handling, etc. all complete as per drawings, specifications and directions of Engineer-in- Charge. (The rate shall be inclusive of the cost of all labour, material, equipment etc. all complete)	105	cum	450.00	2,013.04	-77.65%	
271	**GROUTING WITH NON-SHRINKABLE COMPOUND**						

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272	Providing and laying manually or by pumping at all positions a ready mix non-shrink cementitious grout of compressive strength specified below for specified works e.g. pipe support, base grouting of rotating equipment and other installation complete in all respects as per scope of work, detailed construction drawings , technical specifications and directions of the Engineer-In-Charge.						
273	Having compressive strength of 30 N/mm2 , Per bag of 25 Kg	100	Bags	50.00	3,240.58	-98.46%	
274	Having compressive strength 45 N/mm2 , Per bag of 25 Kg	20	Bags	50.00	3,811.42	-98.69%	
275	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains, SS trench of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.	7.5	m2	5,250.00	3,042.87	72.53%	AHR
276	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, leve and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	13.5	cum	2,500.00	7,998.72	-68.74%	
277	Providing and fixing factory made precast RCC **perforated drain covers**, having concrete of strength not less than M-25, of size 1000x450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos. cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of the Engineer-In-Charge.	515	EACH	1,780.00	1,156.27	53.94%	AHR
278	**Borewell and recharge well**						
279	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job all complete as per drawing, direction of Engineer -in-charge, in all types of soil :	130	M	1,200.00	570.74	110.25%	AHR
280	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge.	130	M	1,500.00	659.63	127.40%	AHR
281	Providing and fixing Bail plug/ Bottom plug of required diameter to the bottom of pipe assembly of tubewell as per IS:2800 (Part-I). :150mm dia	3	EACH	5,000.00	659.63	658.00%	AHR
282	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	550.00	1,430.20	-61.54%	
283	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	395.00	1,430.20	-72.38%	
284	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of the Engineer-In-Charge.	5	cum	480.00	1,430.20	-66.44%	
285	Gravel packing in tubewell construction in accordance with IS:4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of the Engineer-In-Charge.	3	cum	6,500.00	1,430.20	354.48%	AHR

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TRACTEBEL ENGIE	ANNEXURE - V DETAILS OF AHR ITEMS FOR LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010					PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
						Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

Sl. NO.	ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR			AHR ITEMS
				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL		
286	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS:4270, of reputed & approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size dia having minimum wall thickness 5.00 mm	5	M	3,750.00	1,603.49	133.86%	AHR
287	Supplying, assembling, lowering and fixing in vertical position in bore well, Un-plasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	60	M	150.00	659.63	-77.26%	
288	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/ 3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS:8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of the Engineer-In-Charge. 150 mm nominal size diameter	25	M	3,750.00	1,706.39	119.76%	AHR
289	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of 150 mm diameter	1	Nos	5,500.00	201.24	2633.06%	AHR
290	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS:2800 (Part-I), including necessary bolts & nuts of required size complete 150 mm diameter.	1	Nos	5,500.00	1,859.68	195.75%	AHR
291	Supply, Installation and commissioning of 1.5HP Borwell Submersible Pump	1	EACH	9,500.00	1,14,110.00	-91.67%	
292	Supply and Installation of 3Cx10Sqmm Copper Flat Cable	200	M	140.00	410.00	-65.85%	
293	**LANDSCAPING**						
294	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment).	335	cum	2,100.00	633.04	231.73%	AHR
295	Fine dressing of the ground.	1105	M2	3,250.00	4.39	73931.89%	AHR
296	Providing & laying Selection no. 1 grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden and than rolling the surface with light roller make the surface smoothen and light watering the same maintenance for 30 days or more till the grass establish properly,as per direction of officer in charge	1105	M2	3,250.00	113.87	2754.13%	AHR

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				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL		
297	Conducting topographical ground/land survey in the specified area as shown in the tender drawings by conventional/GPS or any other standard method, covering details of physical features like Rivers, Nallahs, Lakes, Ponds, wells, pits, Forest, Trees, Roads, culverts, transmission lines, telegraph/ telephone and electric poles, underground or any other services, cross drainage works including cross sectional details of nallah etc. including establishing high flood level with source of information, identification of any monument, historical structure, wild life sanctuary in the vicinity, storm water disposal point with levels, cross-section details of nallah, recording spot levels, top level of nearest state highway or National Highway, including providing in tabulation girth wise no. of trees etc as specified, plotting and developing topographical contour maps, showing true north including establishing survey reference stations, key plan etc. including all equipment's, instruments, personnel's, clearing of bushes as per requirement for intervisibility to carry out survey work etc. , complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of drawings/map and supply of electronic files. Note: Survey work shall be carried out by survey agency approved by Contractor and sample spot witness of levels cordinates by PMC, and shall be submitted to PMC/Owner for review.Survey drawing will be provided in A0 size with clear visibility of all the spots/levels/ contoure and Bench marks. Permanaet bench mark will be stabished at site in a 450x450 mm size 600mm high bick masonry piller.	4220	M2	68.00	49.89	36.30%	
298	**GEO TECHNICAL INVESTIGATION (Z/02/0022)**						
299	Conducting soil investigation with boring including all field tests and laboratory tests, mobilization and demobilization of equipments & personnel etc. for soil investigation for each borehole location. complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of Reports & recommendations and supply of electronic files.	5	Nos	45.00	71,500.00	-99.94%	
300	**ANTI-TERMITE TREATMENT**						
301	Supplying chemical emulsion in sealed containers including delivery as specified in the Technical Specifications.						
302	Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	200	LITRE	850.00	191.79	343.19%	AHR
303	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :						
304	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc. as per Techinal specifications and direction of engineering in charge: With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	80	METRE	450.00	26.98	1567.90%	AHR
305	Treatment of soil under floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the floor:						
306	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	250	SQM	110.00	220.80	-50.18%	
307	Supply and installation 60mm dia GI pipe for column support of gate	15	M	450.00	1,600.00	-71.88%	
308	Supply and installation 100mm dia MS pipe	15	M	450.00	1,840.00	-75.54%	
309	Supply and installation 50mm dia MS pipe	15	M	650.00	875.00	-25.71%	
310	Supply and installation of U-PVC pipes (working pressure 4 kg / cm²) Single socketed pipe 75 mm dia for weep holes	200	M	260.00	281.09	-7.50%	
312	**SECTION-D [CATHODIC PROTECTION WORKS]**						

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				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL		
313	**CATHODIC PROTECTION SYSTEM**						
314	**Cathodic Protection system**						
315	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning & Monitoring of the temporary cathodic protection [TCP] system using galvanic anodes to protect the external surface of the pipeline against soil-side corrosion for minimum 2 year or till commissioning of permanent CP system whichever is later . All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard drawings and vendor list as attached with this tender and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	22,75,000.00	4,62,000.00	392.42%	AHR
316	Design, Detailed Engineering, Survey, Supply, Installation, Testing and commissioning of permanent cathodic protection system for 40 years. The scope of work also includes post commssoning surveys and repair of coating/ rectification of cathodic protection system based on the post commissioning surveys. In additon to the same, AC Interference study on the pipelines to be performed and mitigation measures takes to the satisfaction of Owner/ CONSULTANT. All work shall be carried out conforming to the Scope of work, Design Basis, Data Sheets, specification, standard and vendor list attached and provisions of GCC, SCC including Technical specifications, including supply of all materials, equipment, consumables, start up/commissioning spares etc. including transportation, storage of materials at site, manpower, in line with direction of Engineer In-charge.	1	LS	40,00,000.00	10,00,000.00	300.00%	AHR
318	**SECTION-E [ELECTRICAL WORKS]**						
319	**ELECTRICAL**						
320	**SWITCH BOARDS / UPS SYSTEM/ PANEL**						
321	Supply , Installation, testing and commissioning of LT Switch-boards, AC UPS system with UPS Distribution board & Ni-Cd Battery banks , distribution boards, cubicles with electrical equipment, misc. electrical panels etc., including transportation from store/yard to site at the place of installation, unpacking, assembly, including mounting and wiring of loose parts supplied by equipment vendor, interconnection of shipping sections and requisite inter-panel wiring between shipping sections, including supply of all wiring materials, installation on foundations or fixing to wall or steel structures, aligning, levelling, grouting, including all labour and materials, as per approved drawings, specifications of this tender and directions of Engineer-in-Charge.						
322	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted MEDB	1	Nos	3,500.00	6,02,693.30	-99.42%	
323	Supply , erection , termination , earthing and commissioning of wall mounted OLDB as per single line diagram of DT stations	1	Nos	2,500.00	1,13,746.60	-97.80%	
324	Supply , erection , termination , earthing and commissioning of wall mounted ILDB as per Single line diagram of DT stations	1	Nos	2,600.00	1,07,042.10	-97.57%	
325	Supply , erection , termination, earthing and commissioning of wall mounted SSDB as per Single line diagram of DT stations	1	Nos	2,800.00	1,00,299.10	-97.21%	
326	Supply , erection , termination , earthing and commissioning of wall mounted AC DB as per Single line diagram of DT stations	1	Nos	3,600.00	94,252.40	-96.18%	
327	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 6 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of DT stations	1	SET	45,000.00	14,99,830.20	-97.00%	
328	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UP	1	SET	45,000.00	15,40,000.00	-97.08%	

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				UNIT PRICE-L1 BIDDER	**UNIT PRICE-TRACTEBEL**		
329	Supply , erection , termination , earthing (as per SLD) of floor mounted Parallel redundant AC UPS system (Min Capacity 1 KVA) with UPS DB as per the Tender specification. Refer PTS- AC UPS System , and SLD of RT stations	1	SET	52,000.00	2,75,000.00	-81.09%	
330	Supply , erection , termination , earthing (as per SLD) of Floor mounted 2x50% Ni-Cd Battery bank of 12 hours back up time with FLP Battery Junction box as per PTS - Electrical package and PTS- AC UPS System for RT stations.	1	SET	48,000.00	12,10,000.00	-96.03%	
331	Supply , erection , termination , earthing (as per SLD) and commissioning of floor mounted Emergency DB	1	Nos	8,500.00	2,20,000.00	-96.14%	
332	Supply , erection , termination , earthing and commissioning of 32A, 4P, 25kA Auto Change-Over switch as per Single line diagram of DT station-JHARIA	1	Nos	8,500.00	38,500.00	-77.92%	
333	**POWER AND CONTROL CABLE**						
334	Supply , laying , termination , erection and testing of 1.1 KV Power and control FRLS PVC Outersheath, XLPE insulated, armored Cables . Outdoor cable will be laid in buried cable trench and in Indoor cable will be laid in Cable trench by provision of Cable tray and supports inside the trench as per PTS - Electrical package P.017110 G 11077 E002						
335	3.5C x 95 sqmm AL FRLS XLPE	300	M	650.00	599.50	8.42%	
336	3.5C x 70 sqmm AL FRLS XLPE	300	M	650.00	495.00	31.31%	
337	3.5C x 50 sqmm AL FRLS XLPE	50	M	550.00	392.70	40.06%	
338	3.5C x 25 sqmm AL FRLS XLPE	100	M	520.00	293.70	77.05%	AHR
339	4C x 16 sqmm CU FRLS XLPE	100	M	530.00	959.20	-44.75%	
340	3C x 2.5 sqmm CU FRLS XLPE	170	M	490.00	228.80	114.16%	AHR
341	3C x 6 sqmm CU FRLS XLPE	250	M	390.00	287.10	35.84%	
342	4C x 6 sqmm CU FRLS XLPE	350	M	290.00	357.50	-18.88%	
343	2C x 6 sq.mm CU FRLS XLPE	100	M	350.00	262.90	33.13%	
344	2.5 sqmm Cu. Wire	1800	M	295.00	42.90	587.65%	AHR
345	6 sqmm Cu. Wire	600	M	250.00	78.10	220.10%	AHR
346	**Earthing & Lightning**						
347	Supply , Installation , testing and comissioning of GI Earth electrodes & Cu plate type earth pit complete with earth pit as per IS 3043, PTS-Electrical package and all necessary material including exacavation of earth pit , filling with charcol and salt , back filling, brick work , connections including all labour and materials as approved drawing and specification of this tender and direction of Engineer-In charge.						
348	GI Earth Electrodes						

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				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL		
349	65mm dia x 3000 mm L GI pipe electrode type Earth pit	17	Nos	3,500.00	17,574.70	-80.09%	
350	**Cu plate Earth Electrode**						
351	600x600x3mm Cu plate type Earth pit	8	Nos	29,000.00	19,916.60	45.61%	
352	**Earth strip and wire**						
353	50x 6 mm GI Flat strip	850	M	360.00	283.80	26.85%	
354	25 x 6 mm Cu Flat strip	50	M	280.00	679.80	-58.81%	
355	2.5 Sqmm Cu wire	250	M	220.00	38.50	471.43%	AHR
356	25 x 6 mm GI Flat strip	200	M	220.00	207.90	5.82%	
357	10 Sq.mm earthing cable	250	M	240.00	122.10	96.56%	AHR
358	GI Earth Bus 50x 6 Sq.mm with all installation assesories	3	Nos	1,200.00	1,485.00	-19.19%	
359	Cu. Earth Bus 50x 6 Sq.mm with all installation assesories (in control room)	4	Nos	1,300.00	2,420.00	-46.28%	
360	25x3 mm GI Flat for Lightning as well as down conductors for DT station as per overall earthing layout and GGNG-E-20713-3007	80	M	230.00	174.90	31.50%	
361	Other lightning assesories like 20mm dia copper rod, hollosphere ,200x200x6mm ms plate ,anchor/fastner ,test links for DT station as per overall earthing layout and GGNG-E-20713-3007	1	LOT	5,000.00	57,022.90	-91.23%	
362	**OUTDOOR Lighting**						
363	Supply , erection , Testing & commissioning of Outdoor area lighting system including with supply of flameproof / weather proof light fixture , pole , junction box and earthing including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender & Overall outdoor lighting layout of DT & RT station and directions of Engineer- In charge.						
364	100W FLP LED Fixture & FLP Junction box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	4	Nos	850.00	23,650.00	-96.41%	
365	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in DT Stations.	2	Nos	950.00	1,28,064.20	-99.26%	
366	1x100W FLP LED Solar type Fixture & FLP Junction box, VRLA Battery (72 hrs backup time) inside FLP Box with 4.5 mtr high pole with all assesories for hazardous area in RT Stations.	7	Nos	950.00	1,28,064.20	-99.26%	
367	1x160W FLOOD LED Fixture with weather proof junction box & 9 mtr high pole with all assesories for open area	6	Nos	1,050.00	37,491.30	-97.20%	
368	1x70 W Solar type Street LED Fixture with weather proof junction box, VRLA Battery (72 hrs backup time) & 9 mtr high pole for street lighting	4	Nos	950.00	1,15,175.50	-99.18%	

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369	1x27 W Post Top Lantran LED Fixture for Gate with weather proof junction box for Gate lamp	2	Nos	750.00	10,850.40	-93.09%	
370	1x36 W LED industrial fixture suitable to building parapet /wall with all assesories like weather proof junction box/clamp/reducer/	2	Nos	850.00	10,322.40	-91.77%	
371	**INDOOR Lighting**						
372	Supply, erection, Testing & commissioning of Indoor building area lighting system including with supply of light fixture, point wiring including supply of all necessary hardware , transportation at the place , un packing and all labour and materials as per approved drawings and PTS- Electrical package of this Tender and directions of Engineer- In charge.						
373	2x20 W LED recessed decorative fixture for control room	5	Nos	650.00	5,597.90	-88.39%	
374	2x20W LED Industrial Fixture for Electrical room	2	Nos	850.00	4,692.60	-81.89%	
375	1x40W LED Flameproof Fixture for Battery room	1	Nos	850.00	21,714.00	-96.09%	
376	2x18W LED Industrial Fixture for Varanda/Toilet/ water cooler area/ Guard room	6	Nos	750.00	3,867.60	-80.61%	
377	1x36W LED Industrial Fixture	4	Nos	750.00	3,173.50	-76.37%	
378	2x20 W LED recessed decorative fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) control room.	2	Nos	750.00	13,750.00	-94.55%	
379	2x20W LED Industrial Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Electrical room	2	Nos	750.00	11,550.00	-93.51%	
380	1x40W LED Flameproof Fixture with inbuilt battery backup (during availibility of normal power, fixture will take power from normal source and also charging the inbuilt battery. When normal power is not available, fixture will take power from the inbuilt battery) for Battery room	1	Nos	900.00	24,750.00	-96.36%	
381	**Switch socket**						
382	Supply and Installation of single/ three phase Switch socket as per Indoor Illumination layout for DT & RT and PTS-Electrical Package and directions of Engineer-In Charge						
383	5/15A surface type switch socket (1 Ph)	7	Nos	220.00	1,751.20	-87.44%	
384	5A flush type switch socket (1 Ph)	4	Nos	220.00	1,387.10	-84.14%	
385	16A Switch socket (I Ph)	3	Nos	220.00	1,641.20	-86.60%	
386	20A Switch socket for AC (1 Ph)	4	Nos	220.00	1,650.00	-86.67%	

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387	Flame proof Junction box for Exhaust fan in Battery room	2	Nos	220.00	3,870.90	-94.32%	
388	32A Switch socket for welding receptacles (3 Ph)	1	Nos	220.00	7,371.10	-97.02%	
389	Modular switch board	12	Nos	220.00	1,161.60	-81.06%	
390	**FANS and Exhaust FAN**						
391	Supply ,Installation and testing of Ceiling Fan and Exhaust fan with louvers including all labours and materials as per Indoor Illumination layout for DT and PTS-Electrical Package and directions of Engineer-In Charge						
392	Ceiling Fan 230V AC 1200 mm sweep	3	Nos	4,500.00	2,576.20	74.68%	AHR
393	450 mm FLP Exhaust Fan for Battery room	2	Nos	4,500.00	22,557.70	-80.05%	
394	200 mm Exhaust Fan for Toilet	1	Nos	4,500.00	2,941.40	52.99%	AHR
395	300 mm Exhaust Fan for Electrical room/ CO2 room	3	Nos	4,500.00	4,404.40	2.17%	
396	**Air conditioning unit**						
397	Supply ,Installation and testing of Five star 1.5 Ton Split AC with outdoor compressor unit including all labours and materials as per Typical Indoor Illumination layout for DT and directions of Engineer-In Charge						
398	Split Air condition Five star 1.5 Ton	4	Nos	55,000.00	62,547.10	-12.07%	
399	**Hardware and other Accessories**						
400	Supply and Installation of Hardware and other accessories including all labours and materials as per Tender specification PTS-Electrical Package P.017110 G 11077 E002 and directions of Engineer-In Charge						
401	Rubber mat	15	M	320.00	2,296.80	-86.07%	
402	Rubber hand gloves	1	PAIR	300.00	2,570.70	-88.33%	
403	Warning Marker	1	Nos	450.00	1,659.90	-72.89%	
404	PVC Conduit with bend ,tee and other required assesories	1	LOT	6,000.00	1,10,498.30	-94.57%	
405	CAUTION Board & Sock treatment chart	1	Nos	650.00	2,912.80	-77.68%	
406	Cable route marker as per Standard drawing TE-IN-STD-G-0327	1	LS	3,500.00	62,667.00	-94.41%	
407	Fire extingusher and SAND Bucket with Stand	1	SET	18,000.00	41,098.20	-56.20%	
408	Ladder type Cable tray - hot dip Galvanized Prefabricated 450 mm wid	55	MTR.	1,100.00	1,402.50	-21.57%	

Prepared Checked(CP) Checked (Finance) Approved

TRACTEBEL	ANNEXURE - V DETAILS OF AHR ITEMS FOR LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010					PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
						Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

Sl. NO.	ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR			AHR ITEMS
				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL		
409	Perforated type Cable tray hot dip Galvanized Prefabricated 450 mm wide	35	MTR.	1,200.00	1,698.40	-29.35%	
410	Cable Glands						
411	Cable Glands : Flame proof IIA/IIB double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge						
412	Cables with upto OD 20 mm & above OD 20 mm as per Single line diagram of DT & RT station	1	LOT	5,000.00	97,276.30	-94.86%	
413	Cable Glands : Weather proof double compression type brass for out door termination of overall diameter including all labour and material as per approved drawings , specifications of this tender and direction of Engineer-In Charge						
414	Cables with upto OD 20 mm to 40 mm as per Single line diagram of DT & RT station	1	LOT	5,000.00	75,028.80	-93.34%	
416	**SECTION-F [INSTRUMENTATION WORKS]**						
417	**INSTRUMENTATION**						
418	**SUPPLY**						
419	Supply of Pressure Transmitter along with 2 valve manifolds with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	8,500.00	58,666.30	-85.51%	
420	Supply of Pressure gauge including high range along with 2 valve manifolds with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	18	Nos	6,500.00	13,975.50	-53.49%	
421	Supply of Pressure gauge including Low Range along with 2 valve manifolds, gauge saver with all accessories as per Data sheet (P.017110 G 11087 I005), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	3	Nos	8,500.00	11,687.50	-27.27%	
422	Supply of temperature element (RTD) along with flanged thermowell mounted for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work,including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	5	Nos	7,560.00	14,153.70	-46.59%	
423	Supply of Temperature Transmitter with all accessories as per Data sheet (P.017110 G 11087 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	7	Nos	7,500.00	37,537.50	-80.02%	
424	Supply of skin type temperature element (RTD) for above ground pipeline with all accessories as per Data sheet (P.017110 G 11087 I003), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation, testing, site calibration and commissioning along with associated accessories, fittings, tubing etc.	2	Nos	7,500.00	14,824.70	-49.41%	
425	Supply of Local control panel with all accessories as per Data sheet (P.017110 G 11087 I011), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, SAT of local control panel,supports/ frame fabrication, earthing and screwing plug for unused entries, painting and integration with RTU. Termination of all Other panel SCADA hard wired signal including RS-485 signals through LCP for RTU/SCADA by	2	Nos	15,000.00	4,73,366.30	-96.83%	
426	Supply of Ex-proof junction box with all accessories as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, iincluding Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.	4	Nos	3,500.00	21,175.00	-83.47%	

Prepared | Checked(CP) | Checked (Finance) | Approved

TRACTEBEL ENGIE	ANNEXURE - V DETAILS OF AHR ITEMS FOR LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010					PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
						Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022
Sl. NO.	ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR			AHR ITEMS
				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL		
427	Supply of Corrosion Monitoring system with corrosion coupon, Corrosion probe, transmitter and digital indicator (mounted in LCP) as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.						
428	Corrosion coupon along with accessories.	2	Nos	22,000.00	69,263.70	-68.24%	
429	Corrosion probe along with transmitter, digital indicator, barriers and accessories.	2	Nos	26,000.00	4,21,850.00	-93.84%	
430	Supply of Conventional Type Microprocessor based fire detection system along with smoke detector, heat detector, cabinet, manual call point, Independent 24 Hrs battery backup with 15 min in alarm state, repeater panel and Electrical Operated Siren, exit signs and cables fromsensor ,MCP, siren, hooter to controller as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.						
431	Controller along with cabinet along with cabling	1	Nos	9,500.00	1,08,900.00	-91.28%	
432	Multisensor (smoke & heat)	10	Nos	15,000.00	4,510.00	232.59%	AHR
433	WP IP 65 Manual call points	6	Nos	12,500.00	4,070.00	207.13%	AHR
434	Ex Proof and WP IP 65 Manual call point	1	Nos	2,250.00	16,844.30	-86.64%	
435	WP Hooter & Flasher	1	Nos	3,600.00	8,525.00	-57.77%	
436	Repeater panel	1	Nos	2,500.00	61,086.30	-95.91%	
437	Exist sign	6	Nos	1,500.00	11,577.50	-87.04%	
438	Electrical siren Exd	1	Nos	1,600.00	35,887.50	-95.54%	
439	24 Hrs battery backup	1	Nos	1,65,000.00	5,857.50	2716.90%	AHR
440	Supply of Conventional type gas detection system along with controller, ex proof point gas detectors, beacon hooter, flasher, , cabinet, portable gas detector, calibration kit, alignment kit as per Data sheet, PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including Erection, Installation testing, commissioning, supports/ frame fabrication, earthing and screwing plug for unused entries and painting.						
441	Controller with cabinet	1	Nos	9,800.00	4,15,250.00	-97.64%	
442	Point gas detectors	12	Nos	8,500.00	1,29,250.00	-93.42%	
443	Panel Mounted hooter	2	Nos	6,500.00	8,525.00	-23.75%	
444	Dual tone Hooter & Beacon Ex"d" with reset push button	2	Nos	7,500.00	21,862.50	-65.69%	
445	Portable gas detecotrs	1	Nos	12,500.00	65,450.00	-80.90%	
446	Calibration kit		Nos	9,500.00	2,33,786.30	-95.94%	

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TRACTEBEL	ANNEXURE - V DETAILS OF AHR ITEMS FOR LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010					PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
						Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

Sl. NO.	ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR			AHR ITEMS
				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL		
447	Ex d Junction Box	2	Nos	3,600.00	25,784.00	-86.04%	
448	Supply of Universal type Hand Held Configurators for transmitters with carrying case, rechargeable batteries (one working and one standby), and battery charger as per Data sheet,PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work	1	Nos	4,500.00	6,23,333.70	-99.28%	
449	Supply of Instrumentation signal cable, control cable, communication cable/LAN cable, Power cables along with all sizes cable glands (WP & Exd), PVC hood, lug, ferrule, etc including Cable laying (buried as well as tray) along with termination, glanding, meggering and loop checking including supply of ferrule, lugs, cable tie, cable clamp, cable marker etc. as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.						
450	1Px 1.5mm2	500	MTRS.	250.00	145.20	72.18%	AHR
451	12Px 0.5mm2	900	MTRS.	220.00	536.80	-59.02%	
452	1Qx1.5mm2	30	MTRS.	190.00	192.50	-1.30%	
453	12Tx1.5mm2	200	MTRS.	210.00	862.40	-75.65%	
454	1Tx1.5mm2	180	MTRS.	160.00	176.00	-9.09%	
455	6Px0.5mm2	200	MTRS.	190.00	381.70	-50.22%	
456	2Px1.5mm2	200	MTRS.	220.00	149.60	47.06%	
457	Cat 5 (LAN)	160	MTRS.	210.00	146.30	43.54%	
458	3C x 2.5mm2	240	MTRS.	260.00	225.50	15.30%	
459	Supply & laying of Instruments cable tray with tray cover (Branch Cable tray (50mm x 50mm), Main cable tray 900 mm, cable tray 300mm, cable tray 150 mm.) as per requirement, instruments/ PGD, CCTV/ mounting poles, instrument protection sun sheds, angles, channels, MS plates & all the erection materials and as per PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work.,including installation of support, cable clamping, installation of tray cover and support painting.	1	LS	35,000.00	4,43,025.00	-92.10%	
460	Supply , installation & laying of tubes and fittings as per requirement and as per PTS-Instrumentation with appendices and Scope of Work C&I. SS 316L TEE (1/2”, Class 3000#, Screwed, NPTF, Seamless) ,SS316L GLOBE/BALL VALVE (1/2”, Class 800#, Screwed, NPTF, Seamless), SS316L PLUG (1/2”, Screwed, NPTM, Hex head, class 3000#), SS316L PIPE NIPPLE (½” NPTM, seamless, schedule #160) Length of the pipe nipple as per requirement, SS316L MALE CONNECTOR (1/2" OD x 1/2" NPTM), SS316L FEMALE CONNECTOR (1/2”OD x 1/2” NPTF), SS316L UNION (1/2” OD), SS316L TUBE (1/2" OD x 0.065" WT), SS316L TUBE (1/4" OD x 0.035" WT)	1	LS	45,000.00	8,74,225.00	-94.85%	
461	Supply of mandatory spares as per Mandatory Spare (P.017110 G 11075 I001)	1	LS	35,000.00	1,10,000.00	-68.18%	
462	AT Jharia - Installation of metering skids, metering cabinet under the supervision of skid supplier, cable laying and terminal of cable from skid junction box to metering system cabinet according to skid supplier cable schedu ction, fabrication and civil materials.	1	LS	28,000.00	4,08,925.00	-93.15%	

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TRACTEBEL engie	ANNEXURE - V DETAILS OF AHR ITEMS FOR LAYING AND ASSOCIATED WORKS FOR TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL - PART B TENDER ID: 2021_GAIL_99100_1 TENDER REFERENCE NO.: P.017110 G 11031 R010					PROJECT-TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL	Rev.00 Date-11.02.2022
						Owner- GAIL (INDIA) Ltd.	Price Bid Opened on-07.02.2022

Sl. NO.	ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE INCLUSIVE OF ALL APPLICABLE TAXES & DUTIES EXCEPT GST (CGST & SGST / UTGST OR IGST) IN INR			AHR ITEMS
				UNIT PRICE-L1 BIDDER	UNIT PRICE-TRACTEBEL		
463	At Jharia Installation of gas chromatograph skid, analyser & controller cabinet under the supervision of skid supplier, cable laying and terminal of cable from analyser cabinet to controller cabinet according to skid supplier cable schedule. Etc. including supply of all the required erection, fabrication and civil materials.	1	LS	32,000.00	4,08,925.00	-92.17%	
464	At Jharia Installation of H2S & Moisture analyser skids, cabinet under the supervision of skid supplier, laying and terminal of cable from skid field mounted cabinet to LCP/RTU. Including supply of all the required erection, fabrication and civil materials.	1	LS	45,000.00	2,98,925.00	-84.95%	
465	At SV 28 Spare Input output available in existing RTU, internal wiring at site, field connection, configuration and commissioning., interfacing with LCP and configuration of new parameters in existing RTU, as per Scope of Work.	1	LS	19,500.00	1,10,000.00	-82.27%	
467	**SECTION-G [TELECOM WORKS]**						
468	Supply Telecommunication system, SDH equipment STM-4 Based SDH Cabinet of (2000H x 800W x 800W along with 100 mm base frame) as per below configuration: - 2*STM-4 + 2*STM-1 + 8FE ports as per PTS-Telecommunication system (P.017110 G 11077 I002), Material Requisition (P.017110 G 11071 I001) and Scope of Work, including erection, testing, integration with existing NMS at Noida, Commissioning and integration with existing telecom system at SV 28 additional SFP of L4.2 for SV 28 connectivity	1	Nos	15,600.00	2,75,000.00	-94.33%	
469	Supply of CCTV-IP based Fixed colour camera and PTZ colour camera along with power cable, communication cable at each station as per PTS-Telecommunication system (P.017110 G 11077 I002), PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work., including erection, testing, integration with existing VMS at Noida, Commissioning and integration with existing telecom system at SV 28						
470	Fixed Camera WP IP65	1	Nos	32,000.00	15,400.00	107.79%	AHR
471	PTZ camera WP IP65	1	Nos	36,000.00	19,800.00	81.82%	AHR
472	Supply of one Analog phones control room, one number in guard room and one number WP IP66 in field safe area as per PTS-Telecommunication system (P.017110 G 11077 I002) , PTS-Instrumentation with appendices (P.017110 G 11087 I001), Material Requisition (P.017110 G 11071 I001) and Scope of Work						
473	Analog Phone	2	Nos	1,800.00	4,400.00	-59.09%	
474	Analog Phone Ex Proof WP IP 65	1	Nos	4,500.00	8,800.00	-48.86%	
475	FXO cards	1	Nos	2,500.00	7,700.00	-67.53%	
476	FXS	1	Nos	2,500.00	7,700.00	-67.53%	
477	Five pair armoured telephone cable, size 0.5mm2	100	MTR.	450.00	143.00	214.69%	AHR
478	AT Jharia- Free issue RTU by GAIL: Transportation from Gail store to site location, installation, cabling from LCP to RTU, commissioning etc. Erection, installation of RTU inside the station control room including supply of all the required erection materials, fabrication and civil works	1	LS	28,000.00	1,10,000.00	-74.55%	
479	At SV 28 Spare Input output available in existing RTU, internal wiring at site, field connection, configuration and commissioning., interfacing with LCP , cable laying from LCP to RTU, and configuration of new parameters in existing RTU, as per Scope of Work.	1	LS	36,000.00	1,10,000.00	-67.27%	

Prepared | Checked(CP) | Checked (Finance) | Approved

ANNEXURE VI
PRICE BID OPENING STATEMENT
LAYING AND ASSOCIATED WORKS (PART - A)
FOR
TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL
(Tractebel Document no: P.017110 G 11031 R010)

Owner: GAIL(INDIA) LTD.
Consultant:Tractebel Engineering Pvt. Ltd.
Price Bid Opening date and time: 07.02.2022 - 19.30 AM
Place of Opening:Via Video Conferencing

Sr No.	Item Description	M/s. AMP Infra Pvt. Ltd.	M/s. Corrtech Energy Ltd.	M/s. Enprocon Enterprise Ltd.	M/s. Jaihind Projects Ltd.	M/s. NOPS Infrastructure Pvt. Ltd.	M/s. Potaliya Enterprises	M/s. Shakti Engineers	M/s. Techno Global services Pvt. Ltd.	M/s. Tolani Projects Pvt. Ltd.	M/s. Vichitra Constructions Pvt. Ltd.	Remarks
1	Total Price quoted for the complete scope of work including GST (CGST & SGST / UTGST OR IGST)	26,29,51,341.60	33,90,11,166.82	29,58,21,976.20	30,24,98,475.44	45,51,76,553.56	40,20,70,126.10	39,14,19,039.00	29,30,47,200.30	31,12,11,227.88	31,52,74,851.00	
2	Extended Stay Compensation	-	11,80,000.00	5,90,000.00	5,90,000.00	32,45,000.00	11,80,000.00	8,26,000.00	11,800.00	13,80,600.00	11,800.00	
3	Gross total amount	26,29,51,341.60	34,01,91,166.82	29,64,11,976.20	30,30,88,475.44	45,84,21,553.56	40,32,50,126.10	39,22,45,039.00	29,30,59,000.30	31,28,91,827.88	31,52,86,651.45	
	Status of the bidder	**L1**	**L7**	**L3**	**L4**	**L10**	**L9**	**L8**	**L2**	**L5**	**L6**	

ANNEXURE VI
PRICE BID OPENING STATEMENT
LAYING AND ASSOCIATED WORKS (PART - B)
FOR
TIE-IN CONNECTIVITIES OF ONGC BOKARO AND ONGC JHARIA TO JHBDPL
(Tractebel Document no: P.017110 G 11031 R010)

Owner: GAIL(INDIA) LTD.
Consultant:Tractebel Engineering Pvt. Ltd.
Price Bid Opening date and time: 07.02.2022 - 19.30 AM
Place of Opening:Via Video Conferencing

Sr No.	Item Description	M/s. Adorn Infra Energy Pvt. Ltd.	M/s. AMP Infra Pvt. Ltd.	M/s. Jaihind Projects Ltd.	M/s. Oval Projects Engineering Pvt. Ltd.	M/s. Shree Balaji Engineering Services	M/s. Enprocon Enterprise Ltd.	M/s. Corrtech Energy Ltd.	M/s. Potaliya Enterprises	M/s. Shakti Engineers	M/s. Vichitra Constructions Pvt. Ltd.	Tolani	M/s. ZAK Venture Pvt. Ltd.	Remarks
1	Total Price quoted for the complete scope of work including GST (CGST & SGST / UTGST OR IGST)	13,11,64,045.78	15,20,48,262.80	18,55,41,068.57	14,98,56,093.61	15,28,46,196.50	14,65,01,991.40	15,96,52,576.92	19,00,57,590.90	16,18,60,836.00	16,30,54,976.24	18,78,50,138.94	12,13,61,887.26	
2	Extended Stay Compensation	7,67,000.00	-	5,90,000.00	1,77,000.00	5,90,000.00	5,90,000.00	11,80,000.00	11,80,000.00	8,26,000.00	11,800.00	13,80,600.00	8,49,600.00	
3	Gross total amount	13,19,31,045.78	15,20,48,262.80	18,61,31,068.57	15,00,33,093.61	15,34,36,196.50	14,70,91,991.40	16,08,32,576.92	19,12,37,590.90	16,26,86,836.00	16,30,66,776.24	18,92,30,738.94	12,22,11,487.26	
	Status of the bidder	**L2**	**L5**	**L10**	**L4**	**L6**	**L3**	**L7**	**L12**	**L8**	**L9**	**L11**	**L1**	

ANNEXURE - VII

CHECK LIST FOR RECOMMENDATION/ PROPOSAL FOR AWARD FOR LAYING AND ASSOCIATED WORKS FOR

(TENDER ID: 2021_GAIL_99100_1
TENDER REFERENCE NO.: P.017110 G 11031 R010)

Sl. No.	Description	Remarks
1.	Reasonability of prices, review (if required) [in O&M cases]	Not applicable.
2.	Any suspicion regarding cartelization	No
3.	Recommendation on re-tendering (if applicable)	No
4.	Impact on project cost (Not applicable for O&M)	Cost is lower by 18.40% and 12.92% of Tractebel Cost Estimate for Part A and Part B respectively.
5.	Impact of delivery period on O&M Activity/ Project Schedule	Delay in award will impact the Project schedule
6.	Analysis of L1 price if it is higher than estimates	Not applicable
7.	Ordering Cycle time	NIT: 21.12.2021 BDD: 18.01.2022 PBO: 07.02.2022
8.	Past price comparison for purchases	Not available
9.	Clear recommendation for approval is to be submitted, no conditional recommendation.	Clear recommendation submitted.
10.	Details of prices submitted after Reverse Auction and variations thereof (wherever applicable)	Not Applicable
11.	Verifying that name of recommended bidder (s) are not appearing in Holiday/ Banning list, available on Intranet	Name of the recommended bidders M/s. AMP Infra Pvt. And M/s. ZAK Venture Pvt. Ltd. is not appearing in available Holiday/Banning list as on 28.12.2021.
12	Total committed cost in project with the award of subject package (Not applicable for O&M)	-
13.	Dealing of purchase preference to MSEs (wherever applicable).	Not applicable being a works package tender.
14.	Dealing of purchase preference to PPP (wherever applicable)	Not applicable
15.	Dealing of purchase preference PP-LC (wherever applicable)	Not applicable as all bidders are Class I Suppliers.
16.	Dealing of purchase preference to DMEPs (wherever applicable)	Not applicable.
17.	Dealing of insufficient competition in terms of clause no. 4.16 of C&P Procedure (wherever applicable).	Not applicable.
18.	Relevant clauses of DoP and C&P Procedures (as applicable)	DoP - 6.1.2.i (a)
19.	Cost details showing all DFR heads in DFR vs committed vs actual	-

Signature Not Verified
Digitally signed by SUNIL KUMAR GUPTA
Date: 2022.09.12 13:47:24 IST
Location: eProcurement System for Central PSUs