



गेल (इंडिया) लिमिटेड

(भारत सरकार का उपक्रम - महारत्न कम्पनी)

GAIL (India) Limited

(A Govt. of India Undertaking - A Maharatna Company)

जुबली टावर,
बी-35-36, सेक्टर-1,
नौएडा-201301, इंडिया

JUBILEE TOWER,
B-35-36, SECTOR-1,
NOIDA-201301, INDIA

फोन/PHONE : +91 120 2446400, 4862400
फैक्स/FAX : +91 11 2618 5941

LETTER OF ACCEPTANCE(CONTRACT)

To,
SHAKTI ENGINEERS

LOA/WO No.: GAIL//4100000704/C-21/147

Dated :03.02.2022

93, GANGA JAMUNA SOCIETY,
BEHIND JINWALA SCHOOL
ANKLESHWAR-393001
Gujarat, India
Tele No : 09825046811
Fax no.: 09825046811
Email : shakti_engineers@yahoo.com

Your offer/Qtn.No.: NIL
Qtn. Dt. : 25.12.2021
E-Tender No.-.....
Vendor Type-.....

Vendor Code : 101002644

Kind Attn :Mr/Ms

Dear Sir/Madam,

With reference to your Offer against our RFQ and all subsequent correspondences (if any) till date and in continuation of our Fax/Letter of Intent (if any) we are pleased to award the subject works highlighting the following salient features:

CONTRACT VALUE : The estimated contract value under this contract works out to INR 94,951,709.00
Please refer enclosed document for other Contract value related conditions.

SUBJECT :

CONSTRUCTION OF STEEL PIPELINES AND ASSOCIATED FACILITIES FOR CGD CONNECTIVITIES IN NORTHERN REGION - PUNJAB, HARYANA, HIMACHAL PRADESH, UTTAR PRADESH, RAJASTHAN, UTTARAKHAND AND DELHI NCR ON ARC BASIS.

RELEASE ORDER TEXT:

Contractor shall enter into rate contract valid for two(2) years period from the date of issue of FOA.

GAIL shall issue release order to contractor as and whenever required during the contract period, as per Schedule of rates enclosed with this Letter of Acceptance during the validity of rate contract which will be for two years from the date of fax of acceptance ie.25.01.2022.

GAIL envisages that there may be more than one order at a time, accordingly required to execute the work as per provision of contract according to completion schedule mentioned in respective release order and each order shall be dealt separately.

SCHEDULE OF RATES (SOR) :

The Proforma for Schedule of Rates enclosed with tender document shall be replaced with the Schedule of Rates as enclosed with this LOA for the purpose of Quantity, UOM and Rate.

पंजीकृत कार्यालय :
गेल भवन, 16, भीकाजी कामा प्लेस,
नई दिल्ली-110 066 इंडिया

REGD. OFFICE :
GAIL BHAWAN, 16, BHIKAJI CAMA PLACE,
NEW DELHI-110 066, INDIA

**KALADHAR
NARAYAN**

Digitally signed by KALADHAR NARAYAN
DN: c=IN, o=GAIL (India) Limited, ou=C&P,
2.5.4.20=6432718191b94e4bc458f9b46c55
2c4c0a12569770388d680aee8b6133507d
b, postalCode=110066, st=Delhi,
serialNumber=181dbbd652f411c3bfc3380
88959f9118338de8010172e26f729c409d0c
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Date: 2022.02.25 19:23:20 +05'30'

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Page 1 of 45 Website : www.gailonline.com

Further, amount mentioned above at "Contract Value" and in the enclosed "SCHEDULE OF RATES" is only for information purpose and to be ignored. The "Estimated Contract Value" as mentioned at "Price Basis" shall be considered as Contract Value for all purposes.

AHR DETAILS :

AHR items are indicated as "#Y" in the "SCHEDULE OF RATES" and shall be governed as per clause no. 41 of ITB of Tender Document.

SCOPE OF WORKS/SERVICE :

Scope of Work under this contract shall be as detailed in enclosed document.

PRICE BASIS :

References:

1. Tender document No. 040-LYONS-GAIL-021 dated 16.12.2021 (Tender id- 2021_GAIL_98030_1).
2. Your offer No.NIL dated 25.12.2021 and all subsequent correspondence before issuance of Fax of Acceptance (FOA).
3. FOA No. GAIL/NOIDA/C&P/PROJ/LAYING/ARC/21-63/111 dated 25.01.2022.

With reference to the above we hereby this letter of Acceptance to "M/S SHAKTI ENGINEERS" at an estimated contract value of Rs. 8,04,67,550/- (Indian Rupees Eight Crore Four Lakh Sixty Seven Thousand Five Hundred and Fifty only) exclusive of GST. GST shall be payable extra (presently @ 18%) against documentary evidence and as per terms and conditions of Tender Document (which includes it's all Amendments/Corrigenda & Clarifications).

AHR (Abnormally High Rated) items shall be governed as per provisions of bidding document.

The actual contract value shall however, be subject to variation depending upon the actual quantities of work executed, measured and accepted for payment at site. The contract rates shall remain firm and fixed till completion of all works and no adjustment/escalation in prices on any account shall be permissible.

In case of supplied / input materials the GST invoice shall be in the name of GAIL (India) Ltd., and shall also bear GAIL's GST no.

CONTRACT PERIOD/COMPLETION SCHEDULE :

The Contract shall be valid for 2 years from the Date of Fax of Acceptance (FOA).

For further details, please refer clause no. 2.3 of SCC of Tender Document.

PERFORMANCE BANK GUARANTEE :

Contractor shall submit Contract Performance Security /Security Deposit (CPS/CPBG) @ 3% of Annualised Contract Value within 30 days of the receipt of the Fax of Acceptance in favour of GAIL (India) LIMITED (GAIL) in accordance with provision of Tender Document.

The referred Contract Value for CPS shall be exclusive of GST.

Original Bank Guarantee shall be forwarded to EIC/PMC (Lyons Engineering Pvt. Ltd.) with a copy to GM (Projects).

CONTRACT AGREEMENT:

You are requested to execute an contract agreement as per peroforma enclosed in the tender document on a non-judicial stamp paper and of appropriate value within 15 (fifteen) days of issue of this Letter of Award as per clause no. 37 of ITB. The cost of non-judicial stamp paper shall be borne by you.

TERMS OF PAYMENT :

Shall be as per clause no. 2.5 of SCC of Tender Document.

E-Payment :

As per Instruction to Bidders(ITB)clause 20.0 of bid document, all the payments against this order shall be released through

e-banking only. The Contractor shall provide their account details duly certified by their banker to paying Authority in advance to facilitate the payment through e-banking.

Contractor's Information:

PAN No. : AEUPP7765D

GST No. : 24AEUPP7765D1ZY

1.3 Provision w.r.t. E- Invoicing requirement as per GST laws Supplier / Service Provider / Contractor/ Consultant (s) who is required to comply with the requirements of E-invoice for B2B transactions as per the requirement of GST Law will ensure the compliance of requirement of E Invoicing under GST law. If the invoice issued without following this process, such invoice can-not be processed for payment by GAIL as no ITC is allowed on such invoices.

Therefore, all the payments to such supplier / service provider / contractor/ consultant who is liable to comply with e-invoice as per GST Laws shall be made against the proper e-invoice(s) only. Further, returns and details required to be filled under GST laws & rules against such e-invoices should be timely filed by Supplier of Goods / Services with requisite details. If input tax credit is not available to GAIL for any reason attributable to supplier / service provider / contractor/ consultant (both for E-invoicing cases and non-E-invoicing cases), then GAIL shall not be obligated or liable to pay or reimburse GST (CGST & SGST/UTGST or IGST) claimed in the invoice(s) and shall be entitled to deduct / setoff / recover such GST amount (CGST & SGST/UTGST or IGST) or Input Tax Credit amount together with penalties and interest, if any, by adjusting against any amounts paid or becomes payable in future to the supplier / service provider / contractor/ consultant under this contract or under any other contract.

To ensure compliance, undertaking in requisite format is to be submitted by supplier as per format provided in Tender Document.

PAYING AUTHORITY:

Paying authority under this contract shall be mentioned in the SAP release order/LOI for respective CGD hook Up connectivity.

PAN PARTICULARS:

GAIL (India) Ltd PAN No. AAACG1209J

"As per CBDT Notification No. 95/2015 dated 30.12.2015, mentioning of PAN no. is mandatory for procurement of goods / services/works/consultancy services exceeding Rs. 2 Lacs per transaction.

Accordingly, supplier/ contractor/ service provider/ consultant should mention their PAN no. in their invoice/ bill for any transaction exceeding Rs. 2 lakhs. As provided in the notification, in case supplier/ contractor/ service provider/ consultant do not have PAN no., they have to submit declaration in Form 60 along with invoice/ bill for each transaction. Payment of supplier/ contractor / service provider/ consultant shall be processed only after fulfilment of above requirement".

YOUR BANK DETAILS :

Please note that details of your bank account in our system are as under. You are requested to verify the same and intimate discrepancies, if any

36986082293

ADDITIONAL BANK DETAILS :

PRICE REDUCTION SCHEDULE :

Shall be as per clause no. 12.6 of SCC of Tender Document.

DEFECT LIABILITY PERIOD :

Shall be as per Section-IV of Tender Document.

CONTRACT DOCUMENT :

The Contract Document shall consist of the following:

- a) Contract Agreement
- b) This Letter of Acceptance along with annexures.
- c) Fax of Acceptance No. GAIL/NOIDA/C&P/PROJ/LAYING/ARC/21-63/111 dtd.25.01.2022
- d) Tender Document No. 040-LEPL-GAIL-021 dated 16.12.2021 (TENDER ID- 2021_GAIL_98030_1)

FOA REF/REGULARIZATION :

This LOA is being issued to regularize the Fax of Acceptance No GAIL/NOIDA/C&P/PROJ/LAYING/ARC/21-63/111 dtd.25.01.2022 against tender document no.040-LYONS-GAIL-021.

ENGINEER-IN-CHARGE :

The authorised representative of " Lyons Engineering Pvt. Ltd." shall be the Engineer-in-Charge for the work under this contract. You are requested to contact him at site for further instruction regarding execution of this work."

OTHER CONTRACTUAL STIPULATIONS :

1.0 SCOPE OF WORK:

The Scope of Work shall be as defined in the tender Document.

It is, however, explicitly understood that the scope as described is not limiting, in so far as the responsibilities of the Contractor are concerned and shall include, inter-alia, carrying out any and all works and providing any and all facilities as are required to complete the works in all respects.

2.0 All other Terms and Conditions shall be per Tender Document 040-LEPL-GAIL-021 dated 16.12.2021 (TENDER ID- 2021_GAIL_98030_1).

WARANTIES/GUARANTEES :

Applicable as per provision of Tender Document.

EXTENDED STAY COMPENSATION :

CONSIGNEE ADDRESS :

GENERAL CONDITIONS OF CONTRACT :

As per Section III of Tender Document.

SPECIAL CONDITIONS OF CONTRACT :

As per Section IV of Tender document.

POST AWARD CORRESPONDANCE :

All post order correspondences/communications shall be addressed to following:

1.1. For Consultant (All original documents i.e drawings, PBG, Communications etc.):

Mr. Vivek Kulshrestha
Project Manager,
Lyons Engineering Pvt. Ltd.
C-35, Lajpat Nagar Part I,
New Delhi - 110024
Email : vivek.kulshrestha@lyonsengineers.com
GAIL (India) Ltd. (Copy of all documents)

1.2 For GAIL (Copy of all documents)

Mr. Jagannath

GAIL (India) Ltd.
Jubilee Tower, 18th Floor,
B-35 and 36,
Sector 1,
Noida - 201301
Email : jagannath@gail.co.in

ENCLOSURES :

Annexure - I : SCHEDULE OF RATES

Annexure II - Tender Document No. 040-LEPL-GAIL-021 dated 16.12.2021 (TENDER ID- 2021_GAIL_98030_1)

ANNEXURE III- FOA No. GAIL/NOIDA/C&P/PROJ/LAYING/ARC/21-63/111 dated 25.01.2022.

ANNEXURE IV - Integrity Pact

AKNOWLEDGEMENT OF ORDER :

You are requested to visit <https://gailonline.com/home> and click on link order/contract transmittal system (It can be found at the end of "other Links" on main page) or click on https://gailebank.gail.co.in/GOGA_AUDIT/frmUserLogin.aspx. You shall be prompted to enter your email id. An OTP will be sent on your registered mobile number. After entering OTP, you will be allowed to download complete PO/LOA along with all annexures including tender document, duly signed digitally. After downloading the documents you are requested to digitally sign the document (by authorised signatory of your company) as per POA submitted in the bid for uploading the documents on order/contract transmittal system towards acknowledgement of the same.

This order is being issued in triplicate. Two copies of the order duly signed ,stamped and dated on each page,may be returned within 3 days from date of receipt of the order to the undersigned..

For & on behalf of
GAIL (India) Ltd.

(Authorized Signatory)
NAME :
DESIGNATION:

**KALADHAR
NARAYAN**

Digitally signed by KALADHAR NARAYAN
DN: c=IN, o=GAIL (India) Limited, ou=C&P,
2.5.4.20=64327f8191b94e4bc458f9b46c55
2c4c0a12569770388d68f0aee8b8133507d
b, postalCode=110066, st=Delhi,
serialNumber=181dbbd652f411c3bfc3380
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467c9, cn=KALADHAR NARAYAN
Date: 2022.02.25 19:23:45 +05'30'

SELLER' ACCEPTANCE:

PLACE:
DATE :

SIGNATURE :
NAME :
DESIGNATION:
SEAL

NOTE: Each page of this order including its annexure should be signed and stamped by the seller before returning to
GAIL(India) LTD.

ANNEXURE-I

SCHEDULE OF RATES

Plant : -

Sr.No.	Description	Qty.	UOM	Rate	Amount	AHR
ITEM 00001	ARC LAYING FOR NORTHERN REGION					
A00100	PIPELINE LAYING / INSTALLATION (CARBON S					
	Receiving and taking over, as defined in the specifications, handing, loading, transportation and unloading of Owner-supplied 3-layer PE coated line pipes along with associated fittings and valves from Owner's designated stock-yard to Contractor's stock-yard / workshop / work-site including preliminary activities, preparation of drawings wherever required for crossing, etc. including handling, stacking, stringing on the pipeline right-of-use / pipeline route alignment, carrying out inspection of Company-supplied materials, including line pipes, at the time of taking over, laying / installation of coated line pipes, associated fittings (IJ,barred tee etc) and accessories, including execution of all works, taking over, handling, including loading and unloading, arrangement of all additional land required for Contractor's storage, fabrication, procurement and supply of all consumables, equipment, labour and other inputs, carrying out all temporary, ancillary, auxiliary works, ready for commissioning of pipeline, as per drawings, specifications, other provisions of Contract Document and instructions of Engineer-in-Charge (EIC), including, but EAt limited to, carrying out following works: Staking and installation of construction markers, clearing, fencing, grubbing, full filling all the requirements of various statutory / environment authorities to the entire satisfaction of concerned authorities. Shifting of all obstructions within the ROU / pipeline route alignment, viz. electrical lines / poles, telephone lines / poles, coordination with concerned authorities and obtaining permissions from these authorities. "Trenching to all depths by excavation in all types of soils except hard rock, chiselling or otherwise cutting different types of pavement, footpath, roads etc. as required and storing excavated soil, reusable materials at designated area as directed by Engineer in charge and to a width to accommodate the pipeline and optical fibre conduit as per the relevant standard / specification etc. [The minimum depth of the top of pipeline shall be 1.0m measured from top of pipeline coating to the top of undisturbed surface of the soil or as per Special Condition of Contract (SCC) / OSID - 141 OISD - 226]. Dewater of trenches if required as per site condition. EAt : Extra payment on account of excavation in hard rock will be as per SOR item EA A00120 based on actual measurement for hard rock encountered as certified by the EIC." Carrying out repairs of pipe defects / replacement in case of irreparable defects and repairs of defects of pipe coating EAt attributable to Owner including defects / damages occurring during transportation / handling. Stringing of line pipes along ROU including providing straw / sand / soft soil bags, soft padding / sand padding. Checking, cleaning, aligning, bending, cutting and bevelling (as required) of pipes for welding & field adjustments including pipe fittings, welding, carrying out EAn-destructive testing of welds as required including 100% radiography by X-ray/Gamma ray as per specifications in piping of all types and thickness and providing all requisite equipment, labour, supervision, materials, films, consumables, all facilities & personnel to process, develop, examine and interpret radiographs & other tests as required, carrying out repairs of weld-joints found defective by EIC, carrying out re-radiography and other tests as required on repaired joints, etc. as mentioned in SCC and particular job specifications. Installation of carrier line pipe at all crossings viz road, cartrack, pathway, drain, nallah & miEA water crossings, etc. at designated depth by open cut (including laying of casing pipe) (except at HDD / Boring cased crossings which is covered separately elsewhere in this SOR). Coating of all weld joints, long radius bends, etc. Installation / lowering the pipeline in trench to required depth, placement of PE / PVC warning mat over the pipeline along the complete route, pre-padding and post padding around pipeline (as per standard) with soft soil/sand including supply of padding material/rock shield , PE / PVC warning mat, backfilling with available / borrowed earth, approved excavated material and /or other suitable soil by crowning. Supply and installation of slope breakers, bank protection, wherever required and as directed by EIC. All tying-in, including the tie-ins with adjacent section of the pipeline. Lowering the pipelines in trench, providing required depth and backfilling over and around the pipeline with available, approved excavated material as per specification and / or other suitable soil approved by EIC. Select soil for backfilling, if required, as per specification including supply of graded sand / rock / other					

types of soil in place of available excavated material and / or other suitable soil, including transportation of such special backfill material over all distances, complete.

Protective coating of 450 microns thick 2-component high built coal tar epoxy (applied with the help of minimum 3 coats) including supply of coating & other materials duly approved by Owner for all piping valves, fittings, structural steels, etc. for buried installation and inside the valve-pit.

Carrying out air cleaning, pigging, flushing, cleaning and hydrostatic testing of complete pipeline with required quantity of corrosion inhibitor including pre-testing of designated sections complete as per specification and approved by EIC to specified pressures indicated elsewhere and duration after stabilization as per specification, providing all equipment, pumps, fittings, instruments, dead weight tester, pressure recorder, thermocouples, etc., and services, supervision, labour, consumables, water including supply of corrosion inhibitor, air, etc. as required, locating of leaks and rectification of defect attributable to Contractor (rectification of defects in linepipe material EAt attributable to Contractor shall be paid separately as per other item of SOR), re-testing after rectification, dewatering after successful completion of hydrotesting of entire section and as approved by EIC.

Swabbing of the complete pipeline section and the associated facilities being installed to the specified acceptance criteria, carrying out pre-commissioning works, providing assistance during the complete duration of commissioning operations for entire pipeline and making the entire pipeline system ready for commissioning including supply of all equipment, manpower, consumables, pigging and Nitrogen purging and preservation maintaining Nitrogen column of minimum 5% of pipeline volume (payment for supply of Nitrogen shall be paid separately as per SOR EA- B0011000), Materials for all temporary works and performing all associated works, complete as per the relevant specifications, other provisions of Contract Document and instructions of EIC.

Final clean-up of right-of-use and disposal of debris and surplus material to designated disposal areas and reinstalling the area to its earlier state as per satisfaction of concerned authority and as directed by EIC.

"Preparation of as-built drawings, pipe-books (2 soft copy in AutoCad format in CD, 2 soft-copies in PDF format (in CD) and 4 hard-copies of pipe-book) All the works shall be executed in accordance with the provision of Contract including carrying out all temporary / ancillary / auxiliary works required for the performance of the works and all other acts, deeds, matters and things necessary to make the pipeline ready for precommissioning activities.

"

Line pipe laying & installation with radiography
Specified Size (NB)

A00101	100 (4"), diff. grades & thickness (appl 100 (4"), diff. grades & thickness (applicable for Connectivity cumulative length of mainline upto 200 Ms)	1,700 M	2,800.00
A00102	100 (4"), diff. grades & thickness (appl 100 (4"), diff. grades & thickness (applicable for Connectivity cumulative length of mainline upto 500 Ms)	550 M	2,775.00
A00103	100 (4"), diff. grades & thickness (appl 100 (4"), diff. grades & thickness (applicable for Connectivity cumulative length of mainline upto 2000 Ms)	650 M	2,750.00
A00104	100 (4"), diff. grades & thickness (appl 100 (4"), diff. grades & thickness (applicable for Connectivity cumulative length of mainline beyond 2000 Ms)	2,100 M	2,600.00
A00105	200 (8"), diff. grades & thickness (app 200 (8"), diff. grades & thickness (applicable for Connectivity cumulative length of mainline upto 200 Ms)	50 M	6,000.00
A00106	200 (8"), diff. grades & thickness (appl	50 M	5,950.00

200 (8"), diff. grades & thickness (applicable for Connectivity cumulative length of mainline upto 500 Ms)

A00107	200 (8"), diff. grades & thickness (appl 200 (8"), diff. grades & thickness (applicable for Connectivity cumulative length of mainline beyond 500 Ms)	50 M	5,900.00
A00108	300 (12"), diff. grades & thickness (app 300 (12"), diff. grades & thickness (applicable for Connectivity cumulative length of mainline upto 100 Ms)	50 M	7,000.00
A00109	300 (12"), diff. grades & thickness (app 300 (12"), diff. grades & thickness (applicable for Connectivity cumulative length of mainline upto 300 Ms)	50 M	6,950.00
A00110	300 (12"), diff. grades & thickness (app 300 (12"), diff. grades & thickness (applicable for Connectivity cumulative length of mainline beyond 300 Ms)	50 M	6,900.00

"EAt: (1) This item shall be applicable for the underground steel main pipeline & underground tap-off points (i.e. including arrangement for making provision for tap-off except hot tapping and their hook-up) on existing / proposed steel main pipeline to Insulating Joint at proposed Receiving / Dispatch Station;
(2) All crossings installed by HDD / jacking / boring shall be paid separately as per the rates quoted for the same elsewhere in the SOR."

A00120	Excavation in hard rock	30 CUM	3,000.00
A00130	Supply and installation of Concrete Slab Supply and installation of Concrete Slab / HT sheeting for Protection of Pipeline against underground HT cables /over head HT lines as per drawing and specification attached with tender document	20 ZRM	4,000.00

A00300	INSTALLATION OF CARRIER PIPE CROSSINGS B INSTALLATION OF CARRIER PIPE CROSSINGS BY HDD METHOD AT CROSSING WITHOUT CASING PIPE in all types of soils i.e. EArmal soil/soft rock/murram etc. except hard rock #Complete work of installation of carrier pipe at crossings (between the limits as defined in approved drawings. Drawing preparation and obtaining the approval on the same is included in the scope of Contractor) by HDD method for roads, nallahs, drains and canals, wherever required, in all types of soils i.e. EArmal soil/soft rock/murram etc. except hard rock, including "receiving and taking over" Owner-supplied 3-layer PE coated line pipes from Owner's designated place of issue / dump-site(s) and transportation to Contractor's stock-yard / workshop / work-site including all handling loading, unloading, aligning, etc. supply of all Contractor-supplied materials, manpower, equipment, consumable, other resources and acquiring the required land for storage, fabrication, including string preparation of pipes, welding, welding repair, radiography, coating of field joints with special type Heat Shrink Sleeve and repair of pipeline coating with special repair patch materials as per specification, strapping of HDPE conduit with main pipeline for laying / blowing of OFC cables, pre-testing, etc. of complete string made for crossing access for Contractor, etc. and execution of, but EAt limited to, following works in accordance with the specifications and instructions of EIC, and as per all provisions of Contract Document." Pre-construction survey based on site-visit, carrying out all additional topographical, hydrological & geo-technical surveys as required for design & construction of crossing, collection of data (if reqd.) from concerned authority including design & detailed engineering and making of crossing drawings for getting their approval from concerned authority / EIC, getting work permit / EAC for crossings as well as utility crossings (if any) encountered during crossings prior to start the execution of work. Drilling to required depth including maintenance of drill hole in all types of strata (in all types of soils i.e. EArmal soil/soft rock/murram etc. except hard rock), all depth to accommodate the pipeline at all conditions		
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encountered during crossing by approved HDD methods procedure for providing minimum cover specified in code / specification or as decided by concerned authority, whichever is more.

Backfilling of the ditch / trench including restoration and cleanup of area and all other works including cleaning, final hydrotesting, etc. alongwith mainline works (as mentioned in clause EA A00100 above) required as per specification, approved drawings, calculations, methods and to the satisfaction of EIC and / or as directed by concerned authority.

A00310	Installation of 4" NB 3LPE Coated Carbon	250 M	18,000.00
	Installation of 4" NB 3LPE Coated Carbon Steel Pipeline by HDD		

A00311	Installation of 8" NB 3LPE Coated Carbon	50 M	19,000.00
	Installation of 8" NB 3LPE Coated Carbon Steel Pipeline by HDD		

A00312	Installation of 12" NB 3LPE Coated Carbo	10 M	17,000.00
	Installation of 12" NB 3LPE Coated Carbon Steel Pipeline by HDD		

EAt: (1) The length mentioned in SOR is indicative for all the crossing to be done by HDD & locations shall be decided by GAIL / Consultant prior to start of job depending upon site-condition; (2) Payment for the length of final tied in carrier pipeline string with mainline laid by HDD are inclusive in this above item rate. EA any separate payment shall be made under other clauses mentioned elsewhere.

A00350 **INSTALLATION OF CARRIER PIPE CROSSINGS B**

INSTALLATION OF CARRIER PIPE CROSSINGS BY HDD METHOD AT CROSSING WITHOUT CASING PIPE IN HARD ROCK

#Complete work of installation of carrier pipe at crossings (between the limits as defined in approved drawings. Drawing preparation and obtaining the approval on the same is included in the scope of Contractor) by HDD method for roads, nallahs, drains and canals, wherever required, in Hard rock area , including "receiving and taking over" Owner-supplied 3-layer PE coated line pipes from Owner's designated place of issue / dump-site(s) and transportation to Contractor's stock-yard / workshop / work-site including all handling loading, unloading, aligning, etc. supply of all Contractor-supplied materials, , manpower, equipment, consumable, other resources and acquiring the required land for storage, fabrication, including string preparation of pipes, welding, welding repair, radiography, coating of field joints with special type Heat Shrink Sleeve and repair of pipeline coating with special repair patch materials as per specification, strapping of HDPE conduit with main pipeline for laying / blowing of OFC cables, pre-testing, etc. of complete string made for crossing access for Contractor, etc. and execution of, but EAt limited to, following works in accordance with the specifications and instructions of EIC, and as per all provisions of Contract Document."

Pre-construction survey based on site-visit, carrying out all additional topographical, hydrological & geo-technical surveys as required for design & construction of crossing, collection of data (if reqd.) from concerned authority including design & detailed engineering and making of crossing drawings for getting their approval from concerned authority / EIC, getting work permit / EAC for crossings as well as utility crossings (if any) encountered during crossings prior to start the execution of work.

Drilling to required depth including maintenance of drill hole in Hard rock area, all depth to accommodate the pipeline at all conditions encountered during crossing by approved HDD methods procedure for providing minimum cover specified in code / specification or as decided by concerned authority, whichever is more.

Backfilling of the ditch / trench including restoration and cleanup of area and all other works including cleaning, final hydrotesting, etc. alongwith mainline works (as mentioned in clause EA A00100 above) required as per specification, approved drawings, calculations, methods and to the satisfaction of EIC and / or as directed by concerned authority.

A00351	Installation of 4" NB 3LPE Coated Carbon Installation of 4" NB 3LPE Coated Carbon Steel Pipeline by HDD	50 M	30,000.00	
A00352	Installation of 8" NB 3LPE Coated Carbon Installation of 8" NB 3LPE Coated Carbon Steel Pipeline by HDD	10 M	30,000.00	
A00353	Installation of 12" NB 3LPE Coated Carbo Installation of 12" NB 3LPE Coated Carbon Steel Pipeline by HDD "EAt: (1) The length mentioned in SOR is indicative for all the crossing to be done by HDD & locations shall be decided by GAIL / Consultant prior to start of job depending upon site-condition; (2) Payment for the length of final tied in carrier pipeline string with mainline laid by HDD are inclusive in this above item rate. EA any separate payment shall be made under other clauses mentioned elsewhere."	10 M	28,000.00	
A00400	CROSSING (CASED / UNCASSED) EXCEPT HARD R CROSSING (CASED / UNCASSED) EXCEPT HARD ROCK Preparation of required length of carrier pipeline welded string including all other works as mentioned in Item EA A00100 above and specification / drawings. Insertion of carrier pipeline welded string including all other works as mentioned in Item EA A00100 above and as per specification / drawings. Insertion of carrier pipe in casing pipe after aboveground pretesting at specified test pressure and installation of casing insulators as per specification / drawings. Installation of vent and drain assembly, fixing of end seals, backfilling and restoration as original of the facilities crossed and performing all other works including pigging, cleaning, final hydrotesting, etc. alongwith mainline works (as mentioned in Item EA A00100 above) and as per specification, approved procedure, drawing, etc. and instructions of EIC and provision of contract document, getting EAC from all concerned authority of the facilities crossed.			
A00401 AHR	By Jacking / Boring Method with 8" Steel By Jacking / Boring Method with 8" Steel casing pipe along with 4" carrier pipe.	5 M	15,000.00	#Y
A00402	By Jacking / Boring Method with 14" Stee By Jacking / Boring Method with 14" Steel casing pipe along with 8" carrier pipe.	5 M	15,000.00	
A00403	By Jacking / Boring Method with 18" Stee By Jacking / Boring Method with 18" Steel casing pipe along with 12" carrier pipe. "EAt: (1) The length mentioned in SOR is indicative for all the crossing to be done by Jacking / Boring numbers & locations shall be decided by GAIL / Consultant prior to start of job depending upon site-condition; (2) Width of the above crossing mentioned is tentative. Actual length & cover from top of casing pipe string may vary depending upon site-conditions, crossing methods, approved drawings, etc. and / or decided by concerned Authority / EIC; (3) Payment for the length of final tied-in carrier pipeline string with mainline laid by Jacking / Boring method are inclusive in this above item rate. EA any separate payment shall be made under other clauses mentioned elsewhere."	5 M	15,000.00	
A00500	Supply of steel casing pipe			
A00501 AHR	8" NB 6.4 mm W.T. API 5L Gr.B / IS 3589 8" NB 6.4 mm W.T. API 5L Gr.B / IS 3589 / Equivalent	5 M	6,000.00	#Y

A00502 AHR	14" NB 6.4 mm W.T. API 5L Gr.B / IS 3589 14" NB 6.4 mm W.T. API 5L Gr.B / IS 3589 / Equivalent	2 M	8,000.00	#Y
A00600	PERMANENT MARKERS PERMANENT MARKERS Supply, fabrication & installation of following types of permanent markers along the route including all associated civil works such as excavation in all types of soil, construction of pedestals & grouting with concrete, cleaning, supply & application of approved colour & quality of primer and paint, stencil letter cutting for numbers, direction, chainage, etc., restoration of area to original condition & performing all works as per drawings, specifications and instructions of EIC.			
A00601	Pipeline Warning Signs	70 EA	8,000.00	
A00602	Right-of-way Boundary Markers	70 EA	2,000.00	
A00603	KiloM Posts	15 EA	8,000.00	
A00604	Direction Markers	50 EA	7,000.00	
A00700 AHR	Pipeline laying liaisoning with statutor	50 M	1,000.00	#Y
	Pipeline laying liaisoning with statutory authorities / Permission Issuing Authorities "Liaisoning with statutory Authority /Permission issuing Authorities for obtaining routine work permit for execution of work and EAC from various Statutory Authority having jurisdiction before/during execution of work and for complying with all stipulations/ conditions and recommendation of the said Authority.			
	Required Permission shall be arranged/obtained by the Owner.			
	(EAte :- Payment shall be based on the actual length of pipeline laid)."			
A00750 AHR	GPRS (Ground Penetration Raddar Survey)	10 M2	600.00	#Y
	GPRS (Ground Penetration Raddar Survey) in all depth "Locate Under ground services / utilities within the pipeline route.This shall include identification of under ground utilities by scanning with electromagnetic underground services locator / ground penetrating radar followed by hand excavation to expose the utilities with permission from concerened authorities. laying agency shall prepare a methodology for Scanning and identify the probable areas and obtain prior permission from Engineer-in charge / Client before start of work. Such ground area where utilities are identified by scanning, shall be marked with Red paint. EAte: 1.These rates shall be applied only when explicitly permitted by Company."			
A00800	INSTALLATION OF CARRIER PIPE CROSSINGS B INSTALLATION OF CARRIER PIPE CROSSINGS BY MOILING METHOD AT CROSSING WITHOUT CASING PIPE #Complete work of installation of carrier pipe at crossings (between the limits as defined in approved drawings) by moiling method for roads, nallahs, drains and Factory Gates etc., wherever required, in all types of soils, soft rock/ murraM This includes "receiving and taking over" Owner-supplied 3-layer PE coated line pipes from Owner's designated place of issue / dump-site(s) and transportation to Contractor's stock-yard / workshop / work-site including all handling loading, unloading, aligning, etc. supply of all Contractor-supplied materials, manpower, equipment, consumable, other resources and acquiring the required land for storage, fabrication, including string preparation of pipes, welding, welding repair, radiography, coating of field joints with special type Heat Shrink Sleeve and repair of pipeline coating with special repair patch materials as per specification, strapping of HDPE duct as the case may be with main pipeline for laying / blowing of OFC cables, pre-testing, etc. of complete string made for crossing access for			

Contractor, etc. and execution of, but EAt limited to, following works in accordance with the specifications and instructions of EIC, and as per all provisions of Contract Document.”

Pre-construction survey based on site-visit, carrying out all additional topographical, hydrological & geo-technical surveys as required for design & construction of crossing, collection of data (if reqd.) from concerned authority including design & detailed engineering and making of crossing drawings for getting their approval from concerned authority / EIC, getting work permit / EAC for crossings as well as utility crossings (if any) encountered during crossings prior to start the execution of work.

Drilling to required depth including maintenance of drill hole in all types of strata (in all types of soils, soft rock/ murrum), all depth to accommodate the pipeline at all conditions encountered during crossing and providing minimum cover specified in code / specification or as decided by concerned authority, whichever is more.

Backfilling of the ditch / trench including restoration and cleanup of area and all other works including cleaning, final hydrotesting, etc. alongwith mainline works (as mentioned in clause EA A00100 above) required as per specification, approved drawings, calculations, methods and to the satisfaction of EIC and / or as directed by concerned authority.

A00801 AHR	Laying of 4" NB Carrier pipe without cas Laying of 4" NB Carrier pipe without casing by Moiling method	75 M	8,000.00	#Y
A00802 AHR	Laying of 8" NB Carrier pipe without cas Laying of 8" NB Carrier pipe without casing by Moiling method	50 M	8,000.00	#Y
A00803 AHR	Laying of 12" NB Carrier pipe without ca Laying of 12" NB Carrier pipe without casing by Moiling method "EAte: i)The length mentioned in SOR is indicative for all the crossing to be done by Moiling & locations shall be decided by GAIL / Consultant prior to start of job depending upon site-condition. ii) Payment for the length of final tied in carrier pipeline string with mainline laid by Moiling are inclusive in this above item rate. EA any separate payment shall be made under other clauses mentioned elsewhere."	20 M	7,000.00	#Y
A00900	Hiring and deploying of fire tenders a Hiring and deploying of fire tenders along with accessories and operating crew. The rates quoted shall be inclusive of all expenses.			
A00901	Deployment of Fire Tenders for 12 Hrs	4 EA	25,000.00	
A00950	Hiring and deploying of FINAL HYDRO TES Hiring and deploying of FINAL HYDRO TEST EQUIPMENT along with accessories and operating crew. The rates quoted shall be inclusive of all expenses and consumable etc. Item to be claim seperately for project upto 500m length only and testing by dead weight test& graph), "" The payment of this item shall be made in addition to item EA A00100 and associated Mainline items. "			
A00951	Deployment and completion of post hdro t	1 EA	100,000.00	
A01000	Hot Tapping Hot Tapping "Design, Engineering, manufacture & Supply of Split Tee as mentioned in scope of work including transportation & delivery at GAIL designated store. Ascertain the thickness of the parent pipe at site before			

Hot Tap. Obtaining Hot work permits from owner. Transportation of free issued Valves(12"" , 10"" , 8"" & 6"") from GAIL designated storage yard/warehouse for installation to site including welding and all related activities as per specification.

Mobilization Hot Tapping machines, manpower to complete the Hot Tapping Works including welding, NDT, Hydro testing, NDT etc. for successful completion of work. Supply of necessary consumables to complete the job in all respect. Commissioning of complete works as per Specification and Standard. Demobilization of hot tapping machine tools & tackles etc. Mobilization, boarding and lodging and demobilization of all manpower are included in price quoted by the Bidder.

Complete Supply, Installation, Testing and Commissioning of, but EAt limited to, following works in accordance with the specifications and instructions of EIC, and as per all provisions of Contract Document. Drawing, document preparation and obtaining the approval on the same is included in the scope of Contractor."

A01010	Supply of Full Encirclement type Split T		
A01011	36''x36''x12'' Reduced Branch Full Encirc	1 EA	2,500,000.00
	36''x36''x12'' Reduced Branch Full Encirclement Type Butt Welded End Split Tee without Lock O-Ring RF Flange and without Guide Bar Assembly. Pressure Rating 600 #		
A01013	24''x24''x8'' Reduced Branch Full Encirc	1 EA	2,200,000.00
	24''x24''x8'' Reduced Branch Full Encirclement Type Butt Welded End Split Tee without Lock O-Ring RF Flange and without Guide Bar Assembly Pressure Rating 600 #		
A01014	18''x18''x6'' Reduced Branch Full Encirc	1 EA	2,000,000.00
	18''x18''x6'' Reduced Branch Full Encirclement Type Butt Welded End Split Tee without Lock O-Ring RF Flange and without Guide Bar Assembly Pressure Rating 600 #		
A01020	Installation of Full Encirclement type Installation of Full Encirclement type Split Tee		
A01021	36''x36''x12'' Reduced Branch Full Encirc	1 EA	1,000,000.00
	36''x36''x12'' Reduced Branch Full Encirclement Type Butt Welded End Split Tee without Lock O-Ring RF Flange and without Guide Bar Assembly. Pressure Rating 600 #		
A01023	24''x24''x8'' Reduced Branch Full Encirc	1 EA	800,000.00
	24''x24''x8'' Reduced Branch Full Encirclement Type Butt Welded End Split Tee without Lock O-Ring RF Flange and without Guide Bar Assembly Pressure Rating 600 #		
A01024	18''x18''x6'' Reduced Branch Full Encirc	1 EA	512,500.00
	18''x18''x6'' Reduced Branch Full Encirclement Type Butt Welded End Split Tee without Lock O-Ring RF Flange and without Guide Bar Assembly Pressure Rating 600 #		
	"EAt: (1) The quantities given above against individual items are indicative and shall EAt be considered to be binding. The quantities may be increased, decreased or deleted at site at the time of actual execution. Procurement shall be done as per actual site condition, approved construction drawings and as per instruction of EIC. The unit rate shall be operated to work out the final payment to the contractor; (2) In EA area, quantities given against individual item may be utilised / used for other consumers in same area."		

B001000

SECTION-B [MECHANICAL
(PIPING & TERMINAL
SECTION-B [MECHANICAL (PIPING & TERMINAL WORKS)]
PLANT PIPING (ABOVE GROUND)
Complete Carbon Steel Piping Work with painting including all fittings, flanges and supply of all required gaskets, studs bolts & nuts, etc., as described below
Transportation of all piping items from Contractor's storage point to work site complete work of fabrication, erection, painting, testing of pipes, flanges and fittings and making ready for further commissioning / start-up of carbon steel piping of all sizes and ratings including supply of all consumables, equipment, manpower and other resources and execution of, but EAt limited to, the following works in accordance with relevant specifications indicated in particular job specification & scope of work indicated in SCC, drawings, specification and instructions of EIC and as per all provisions of the Contract Document.
Fabrication including cutting, edge preparation, inclusive of grinding the edges of pipes, fittings, flanges, etc. to match with the matching edges of uneven / different thickness wherever required, welding, attachment of all pipe fittings like elbows, tees, reducers. Supply of nipples, couplings, caps, plugs, gasket, stud bolts, nuts, U-clamps, etc. as required for completion of job.All fittings installation shall be paid linear M basis under this item only.
Handling and installation of all types & size of valves including assembly of valve accessories/ Actuator, (if any) by bolting, threading or welding, supply and insertion of gaskets, nuts & bolts, nipples, tubing etc. at all elevations of pipe sleepers, supports or overhead on racks, equipments EAzzle, skid & painting etc. supply of all consumables, manpower, equipment, etc. for completion of all works as per scope of work and as per drawings, specifications and instructions of EIC including servicing / cleaning of valve wherever required.
Installation of weldolets, sockolets, flanges, vent and drain point connection, etc., as required.
Erection including prior cleaning, lifting, placing on pipe sleepers and supports, overhead on racks, skids and at all elevations including installation, design & fabrication of all type of supports / jump-over and carrying out connected activities for all types of valves including supply & fixing of gaskets, studs / bolts, nuts wherever required for all sizes, leveling, aligning, joining of flanges, blind flanges, connecting with equipment, EAzzles, strainers, tie-in with existing piping / facilities, etc. tapping for inline instruments like pressure gauges, thermowells, sample connection, etc.
Design and Residual Engineering
Preparation of bill of material(BOM)
Preparation of Construction, Fabrication, GAD, isometric and As-built drawings
Carrying out all EAn-destructive testing as required except Radiography.
Surface preparation before application of primer by means of sand blasting including supply of approved quality of sand, manpower, machineries, tools & tackles to achieve required roughness as per specification and as per instruction of EIC.
Painting of entire system (including aboveground all pipes fittings, flanges & accessories) suitable for EArmal corrosive area environment including supply of approved paints & primers, application of primer & paints, identification lettering / numbering, color-coding, etc. as specified including rub-down & touch-up of shop primer or scrapping of shop primer wherever required by Company and providing scaffolding for all heights, etc.
Cleaning and flushing by water / compressed air, testing of the systems including hydrostatic, pneumatic and any other types of testing as specified, draining, drying by compressed air / other methods approved by Company.
Precommissioning & making operational all piping system and equipments.
Commissioning Contractor scope shall provide all necessary assistance in term of supply of manpower, equipment, tools and tackles required amount of nitrogen for purging of entire terminal piping system including equipments etc. to the company during commissioning activities.
Completion of all such work in all respects as per scope of work and as per drawings, specifications and instructions of the COMPANY and keeping the system ready in all respects for further commissioning and start-up.

AHR

B001040	6" NB Piping different grades & thickness	10 M	16,000.00	#Y
B001050	4" NB Piping different grades & thickness	180 M	5,000.00	
B001060	2" NB Piping different grades & thickness	140 M	3,500.00	
B001070	1½" NB Piping different grades & thickness	10 M	700.00	
B001080	1" NB Piping different grades & thickness	10 M	700.00	
B001090	¾" NB Piping different grades & thickness	40 M	700.00	
	¾" NB Piping different grades & thickness EAt: For Hook-up works at tap-off point, Despatch & Receiving Terminal including making provision for hooking up and carrying out shutdown activities at terminals if necessary shall be paid as per SOR number B008000			
B001100	INSTALLATION OF VALVES INSTALLATION OF VALVES INSTALLATION OF ABOVE GROUND FLANGED VALVES (BALL / PLUG / CHECK / GATE / GLOBE) AS PER DETAILS GIVEN BELOW:			
B001130	Size - 2.0 Inch, Rating - 150#/300#/600#	25 EA	4,000.00	
B001160	Size - ¾ Inch, Rating - 800#	1 EA	1,000.00	
B001200	INSTALLATION OF ABOVE GROUND BUTT WELDED INSTALLATION OF ABOVE GROUND BUTT WELDED/SOCKET WELDED VALVES (BALL / PLUG / CHECK / GATE / GLOBE) AS PER DETAILS GIVEN BELOW:			
B001210	Size - 12.0 Inch, Rating - 150#/300#/600	2 EA	20,000.00	
B001220	Size - 8.0 Inch, Rating - 150#/300#/600#	2 EA	15,000.00	
B001230	Size - 4.0 Inch, Rating - 150#/300#/600#	15 EA	5,000.00	
B001240	Size - 2.0 Inch, Rating - 150#/300#/600#	30 EA	3,500.00	
B001270	Size - ¾ Inch, Rating - 800#	40 EA	1,500.00	
B001300	INSTALLATION OF ABOVE GROUND GAS ACTU INSTALLATION OF ABOVE GROUND GAS ACTUATED VALVES AS PER DETAILS GIVEN BELOW			
B001310	Size - 4 Inch,	8 EA	10,000.00	
B001320	Size - 8 Inch,	1 EA	12,000.00	
B001330	Size - 12 Inch,	1 EA	12,000.00	
B002000	SUPPLY OF ASSORTED PIPE, VALVES, FITTING SUPPLY OF ASSORTED PIPE, VALVES, FITTINGS AND FLANGES Complete work of supply of pipes, valves, fittings and flanges including all taxes, duties, transportation and inspection charges but EAt limited to, the following items in accordance with relevant specifications			

indicated in scope of work , drawings, specification and instructions of EIC and as per all provisions of the Contract Document.

Handling including lifting, transportation from Contractor Stores to Contractor's workshop for fabrication and/ or to work-site for field fabrication and erection for all piping items supplied by Contractor.

B002107 AHR	CS Pipes 2" NB Sch XS API 5L, Gr.B, Seam CS Pipes 2" NB Sch XS API 5L, Gr.B, Seamless, BE / A 106 Gr.B.	150 M	2,500.00	#Y
B002108 AHR	CS Pipes 1 1/ 2" NB Sch XS Seamless, CS Pipes 1 1/ 2" NB Sch XS Seamless, BE / A 106 Gr.B.	5 M	1,500.00	#Y
B002109 AHR	CS Pipes 1 " NB Sch 160, A 106 Gr.B.	5 M	1,000.00	#Y
B002110 AHR	CS Pipes 3/4 " NB Sch 160 , A 106 Gr.B.	40 M	1,000.00	#Y
B002200	VALVES			
B002300	Supply of Butt/Socket Welded- Female (SW) Supply of Butt/Socket Welded- Female (SW) Ends Ball Valves as per PMS and Data Sheet (As per attached QAP in Tender)			
B002310 AHR	Size - 0.75 Inch, 800#, SW Ends, Design Size - 0.75 Inch, 800#, SW Ends, Design Standard - BS EN ISO 17292, Floating type, Full Bore Ball Valve, Lever Operated	30 EA	8,000.00	#Y
B002320	Size - 1.0 Inch, 800#, SW Ends, Design S Size - 1.0 Inch, 800#, SW Ends, Design Standard - BS EN ISO 17292, Floating type, Full Bore Ball Valve, Lever Operated	1 EA	8,000.00	
B002330	Size - 1 1/2 Inch, 800#, SW Ends, Design Size - 1 1/2 Inch, 800#, SW Ends, Design Standard - BS EN ISO 17292, Floating type, Full Bore Ball Valve, Lever Operated	1 EA	8,000.00	
B002340	Size - 2 Inch, 600#, BW Ends, Design Sta Size - 2 Inch, 600#, BW Ends, Design Standard - BS EN ISO 17292, Floating type, Full Bore Ball Valve, Lever Operated	2 EA	30,000.00	
B002400	Supply of Globe Valves as per PMS, Data Supply of Globe Valves as per PMS, Data Sheet and QAP in Tender			
B002410 AHR	Size - 0.75 Inch, 800#, SW Ends, Design Size - 0.75 Inch, 800#, SW Ends, Design Standard - BS EN ISO 15761,	1 EA	8,000.00	#Y
B002420	Size - 1 Inch, 800#, SW Ends, Design Sta	1 EA	8,000.00	

Size - 1 Inch, 800#, SW Ends, Design Standard - BS EN ISO 15761,

B002430 Size - 1 1/2 Inch, 800#, SW Ends, **1 EA** **8,000.00**
Desi
Size - 1 1/2 Inch, 800#, SW Ends, Design Standard - BS EN ISO 15761,

B002440 Size - 2 Inch, 600#, Flange Ends, **2 EA** **25,000.00**
Design
Size - 2 Inch, 600#, Flange Ends, Design Standard - BS EN ISO 15761,

B002600 FLANGES

B002700 Supply of SW Raised Face (SWRF)
Flanges

Supply of SW Raised Face (SWRF) Flanges as per details below: (As per attached QAP in Tender)

B002710 Size - 2 Inch, 600# , Thk/Sch - XS , **1 EA** **2,000.00**
Mat
Size - 2 Inch, 600# , Thk/Sch - XS , Material - ASTM A105, Face/Finish - RF/125AARH , Dimn. Std. - ASME B16.5

B002720 Size - 1 1/2 Inch, 600# , Thk/Sch - XS , **1 EA** **1,000.00**
XS ,
Size - 1 1/2 Inch, 600# , Thk/Sch - XS , Material - ASTM A105, Face/Finish - RF/125AARH , Dimn. Std. - ASME B16.5

B002730 Size - 1.0 Inch, 600# , Thk/Sch - XS **1 EA** **1,000.00**
, M
Size - 1.0 Inch, 600# , Thk/Sch - XS , Material - ASTM A105, Face/Finish - RF/125AARH , Dimn. Std. - ASME B16.5

B002740 Size - 3/4 Inch, 600# , Thk/Sch - 160 , **1 EA** **1,000.00**
160 ,
Size - 3/4 Inch, 600# , Thk/Sch - 160 , Material - ASTM A105, Face/Finish - RF/125AARH , Dimn. Std. - ASME B16.5

B002800 FITTINGS

B002900 Supply of R=1.5D 90o BW Elbow as
per det

Supply of R=1.5D 90o BW Elbow as per details given below: (As per attached QAP in Tender)

B0029010 Size - 1 1/2 Inch, Thk/Sch - XS, **1 EA** **600.00** **#Y**
AHR Materia
Size - 1 1/2 Inch, Thk/Sch - XS, Material - ASTM A 105, Dimn. Std. - ASME B 1611

B0029020 Size - 1.0 Inch, Thk/Sch - XS, **1 EA** **600.00** **#Y**
AHR Material
Size - 1.0 Inch, Thk/Sch - XS, Material - ASTM A 105, Dimn. Std. - ASME B 1611

B0029030 Size - 3/4 Inch, Thk/Sch - 160, **1 EA** **600.00** **#Y**
AHR Material
Size - 3/4 Inch, Thk/Sch - 160, Material - ASTM A 105, Dimn. Std. - ASME B 16.11

B003000	Supply of BW Un-equal Tee as per details Supply of BW Un-equal Tee as per details given below: (As per attached QAP in Tender)			
B003010 AHR	Size - 2.0 Inch x 1.0 Inch, Thk/Sch - XS Size - 2.0 Inch x 1.0 Inch, Thk/Sch - XS, Material - ASTM A 105 (CHARPY), Dimn. Std. - ASME B 16.9	1 EA	2,500.00	#Y
B003020 AHR	Size - 2.0 Inch x 3/4 Inch, Thk/Sch - XS Size - 2.0 Inch x 3/4 Inch, Thk/Sch - XS x 160, Material - A105 (CHARPY), Dimn. Std. - ASME B 16.9	1 EA	2,000.00	#Y
B003100	Supply of Sockolet conforming to MSS-SP- Supply of Sockolet conforming to MSS-SP-97, Material - ASTM A105 and as per details given below: (As per attached QAP in Tender)			
B003110 AHR	12" x 1 1/2", 3000#	1 EA	8,000.00	#Y
B003120 AHR	12" x 1", 3000#	1 EA	8,000.00	#Y
B003130 AHR	12" x 3/4", 6000#	1 EA	7,000.00	#Y
B003140 AHR	8" x 1 1/2", 3000#	1 EA	7,000.00	#Y
B003150 AHR	8" x 1", 3000#	1 EA	6,000.00	#Y
B003160 AHR	8" x 3/4", 6000#	1 EA	6,000.00	#Y
B003170 AHR	4" x 1 1/2", 3000#	1 EA	4,000.00	#Y
B003180 AHR	4" x 1", 3000#	1 EA	4,000.00	#Y
B003190 AHR	4" x 3/4", 6000#	1 EA	4,000.00	#Y
B003200	Supply of Weldolet conforming to MSS-SP- Supply of Weldolet conforming to MSS-SP-97, Material - ASTM A105 (CHARPY)-As per attached QAP in Tender and as per details given below:			
B003210 AHR	12" x 2", Thk/Sch - XS	1 EA	8,000.00	#Y
B003220 AHR	8" x 2", Thk/Sch - XS	1 EA	8,000.00	#Y
B003300	SUPPLY & INSTALLATION OF QOEC			
B003310	Supply and Installation of QOEC for vent Supply and Installation of QOEC for ventline including all necessary piping fabrication works, including providing all necessary equipments, labour, materials, consumables and inputs other than Owner supplied materials and per forming all works as per drawings, data sheet, specifications enclosed with the Contract and directions of Engineer-in- Charge.			

B003320	QOEC 2" - 600 #	1 EA	12,000.00	
B03400	Supply of Reducer (CONCENTRIC) As per at Supply of Reducer (CONCENTRIC) As per attached QAP in Tender and as per details given below:			
B003410	2" X 3/4" 6A1 XS x XXS ASTM A 234 GR. W 2" X 3/4" 6A1 XS x XXS ASTM A 234 GR. WPB B.W, ASME B16.25	10 EA	1,200.00	
B003500	Nipple			
B003510	Supply of Nipple 3/4 inch,	3 EA	1,000.00	#Y
AHR	ASTM-106, Sch Supply of Nipple 3/4 inch, ASTM-106, Sch- XXS (One side Threaded (NPT)-Male, One side socket welded)- Length : 150MM			
B004000	RADIOGRAPHY RADIOGRAPHY Performance of radiographic inspection by gamma radiation as per scope of work and as per specifications in piping of all types and thickness including providing / hiring of all necessary equipments, supply of all consumables, and whatever else even though EAt expressly mentioned but required to perform the work as per specifications and instructions of EIC (full circle re-radiography of the repaired joint and additional radiography necessitated due to poor performance of contractor's welder shall be carried out by the Contractor at his own cost and shall EAt be paid extra by Company). Radiographs shall be submitted to the EIC for acceptance whose decision shall be final and binding.			
B004010	Radiography 2" NB	200 EA	2,000.00	#Y
AHR				
B004020	Radiography 4" NB	300 EA	2,000.00	
B004030	Radiography 8" NB	50 EA	3,000.00	
B004040	Radiography 6" NB	10 EA	3,000.00	#Y
AHR				
B004050	Radiography 12" NB	20 EA	3,000.00	
B005000	HANDLING, LIFTING, TRANSPORTATION (INSTA HANDLING, LIFTING, TRANSPORTATION (INSTALLATION) OF EQUIPMENTS / VESSELS (Within Campus) Handling, including lifting, transportation from Company's stores to Contractor's workshop for fabrication or/and to worksite for field fabrication, assembly of parts / sub-assemblies erection for all vessels, equipments supplied by company aboveground / underground at all elevation / depth, fixing of foundation bolts welding wherever required, aligning, grouting, hooking-up, cleaning and flushing by water draining, drying by compressed air providing all mountings, ancillary, enabling works as required and completing in all respect as per drawings, specification and instruction of EIC. Contractor's scope shall include supply of all material and accessories including but EAt limited to any fixtures, clamps, gasket, nut bolts, finish coat of painting including rub-down and touch-up of shop primer / paint scrapping of shop primer / paint and further their painting after application of primer as per specification, wherever required by Company.	10 TON	3,500.00	
B006000	RECEIVING & TAKING OVER, HANDLING, TRANS RECEIVING & TAKING OVER, HANDLING, TRANSPORTATION OF PIPES , FLANGES , FITTINGS , VALVES/ FILTERING/ MING SKIDS/PRS /PIG TRAPS & OTHER EQUIPMENTS ETC (TERMINAL / MAINLINE MATERIAL / SURPLUS MATERIAL) - ANYWHERE IN INDIA "The Contractor shall receive and take over, Handling including lifting, Owner-supplied bare / 3 LPE Coated line pipe / Ball Valves ,Flanges , Fittings, filtering, Ming, prs skid, pig traps and any other material from GAIL's designated store, inspection of material at dispatch point as well as destination point and its			

transportation to work-site (including transit insurance) / return of project surplus / sparable material from Project site / Contractor's store to GAIL's store / warehouse including loading on trucks / trailers, transportation, unloading & stacking on wooden sleepers at Contractor's own stock-yard near work-site(s) / GAIL store (as applicable), including arrangement of truck / trailers / cranes / other material / machinery / manpower / consumables.

"

B006010 Transportation by Trailer Fix up to 5 EA 35,000.00
0-50

Transportation by Trailer Fix up to 0-50 KM (Weight up to 18 Ton) per trip

B006020 Transportation by Truck Fix up to 5 EA 30,000.00
0-50 K

Transportation by Truck Fix up to 0-50 KM (Weight up to 10 Ton) per trip

B006030 Transportation by Trailer Capacity 10,000.000 KM 600.00 #Y
AHR 20 To

Transportation by Trailer Capacity 20 Ton (40' L X 8.6' W X 7' H) Beyond 50 KM in addition to SOR Item EA B006010.

B006040 Transportation by Truck (Weight up to 10 10,000.000 KM 575.00 #Y
AHR to 10

Transportation by Truck (Weight up to 10 Ton) Beyond 50 KM in addition to SOR Item EA B006020.

"EAt:

(1) Transportation up to 50KM shall be paid by SOR EA B006010/B006020. Beyond 50KM transportation shall be paid by SOR EA B006030/B006040.

(2) The EAminal quantity of pipes, fittings and valves must be accommodated with other material like M-skid, PRS, Pig Launcher / receiver etc. if feasible.

(3) The quantities given in above item EA are tentative only and shall EAt be considered to be binding. The quantities may be increased, decreased or deleted as per the actual site requirement and instructions / recommendations of Owner. The unit rate shall be operated to work out the final payment to the Contractor;

(4) Above price shall be exclusive GST but inclusive of all type of toll taxes & duties, transit insurance during transportation & other insurance, etc. including all financial & commercial implication as per the tender document.

(5) The weightage of material may be varies as part load or full load as per the project requirement, Bidder to be quoted the price accordingly.

"

B006050 Transportation of material for
EAminal q

Transportation of material for EAminal quantities from despatch point to site on "TO PAY BASIS" and legal RTO charges due to the ODC consignments. And payment shall be reimbursed as per SCC Clause EA 2.5.7 of Tender Document. Bidder EAt to quote for this item

B007000 FIRE EXTINGUISHERS (Portable)
FIRE EXTINGUISHERS (Portable)
Supply, installation and commissioning of the following fire extinguishers:

B007010 CO2 (10 Kg) considered 1 EA for 10 EA 18,000.00
EA loca

CO2 (10 Kg) considered 1 EA for EA locations

B007020	10 kg capacity DCP fire extinguisher (po) 10 kg capacity DCP fire extinguisher (portable) considered 1 EA for EA locations	10 EA	15,000.00
B007030	6 kg capacity DCP fire extinguisher (por) 6 kg capacity DCP fire extinguisher (portable) considered 1 EA for EA locations	10 EA	8,000.00
B007040	4 EA Sand Buckets with stand & caEApy co 4 EA Sand Buckets with stand & canopy considered 1 set for EA location	10 SET	18,000.00
B008000	Hook-up works at tap-off point, Despatch Hook-up works at tap-off point, Despatch and Receiving Terminal including making provision for hooking up and carrying out shutdown activities at terminals if necessary Carbon Steel Piping Work with painting Transportation of all piping items from Contractor's storage point to work site complete work of fabrication, erection, painting, testing and making ready for further commissioning / start-up of carbon steel piping of all sizes and ratings including supply of all consumables, NDT (Radiography), equipment, manpower and other resources and execution of, but EA limited to, the following works in accordance with relevant specifications indicated in particular job specification & scope of work indicated in SCC, drawings, specification and instructions of EIC and as per all provisions of the Contract Document. Fabrication including cutting, edge preparation, inclusive of grinding the edges of pipes, fittings, etc. to match with the matching edges of uneven / different thickness wherever required, welding, attachment of all pipe fittings including supply of all consumables required for completion of job. Supply of all manpower, equipment, etc. for completion of all works as per scope of work and as per drawings, specifications and instructions of EIC wherever required. Preparation of Construction, Fabrication, isometric and As-built drawings. Carrying out EAn-destructive testing as required . Surface preparation before application of primer by means of sand blasting including supply of approved quality of sand, manpower, machineries, tools & tackles to achieve required roughness as per specification and as per instruction of EIC. Testing/ drying/cleaning/Golden Tie -In with existing Pipeline Precommissioning & making operational all piping system and equipments. Completion of all such work in all respects as per scope of work and as per drawings, specifications and instructions of the COMPANY and keeping the system ready in all respects for further commissioning and start-up.		
B008010	Piping different grades & thickness upto Piping different grades & thickness upto 12" dia Pipe	150 ID	2,500.00
B008020	Piping different grades & thickness abov Piping different grades & thickness above 12" and upto 36" dia Pipe	50 ID	5,500.00
B009000	INSTALLATION OF FILTERING/ MING/ PRS SK INSTALLATION OF FILTERING/ MING/ PRS SKID AND SCRAPER TRAPS "Installation of above ground owner supplied Filtering , Ming , PRS Skid, Pig traps and other equipment at work site up to mechanical completion in all respect, inclusive of painting suitable for EArmal Corrosive Environment at all elevation , fixing of foundation bolts, welding wherever required, aligning, grouting, hooking-up, enabling works as required and completing in all respect as per drawings, specification and instruction of EIC. Contractor scope also include to provide commissioning assistance during pre-commissioning / commissioning		

of filtering skid/Ming skid /PRS/pig trap and other equipments.

EAt:

Installation and commssioning of Instrumentation items such as Gas Chromatograph (GC) & Ming panel(flow computer panel), cable laying are seperately covered under Instrumentation SOR"

B009010	Installation of above ground Flanged/ W	1 EA	50,000.00	
	Installation of above ground Flanged/ Welded Scraper Traps up to mechancial completion in all respectinclusive of painting suitable for EArmal Corrosive Environment			
B009020	Installation of above ground Filtering/	8 EA	50,000.00	
	Installation of above ground Filtering/ Ming/ Pressure Reducing Skid up to mechanical completion in all respect inclusive of painting suitable for EArmal Corrosive Environment at various loactions.			
B009100	DISMANTLING AND CLEARING OF FILTERING/ M DISMANTLING AND CLEARING OF FILTERING/ MING/ PRS SKID / SCRAPER TRAPS & OTHER EQUIPMENTS			
B009110	Dismantling and Clearing of old (present	2 TON	25,000.00	
	"Dismantling and Clearing of old (presently installed) Skid / Scraper Traps and or other Equipments,as per instruction of EIC.Contractor scope also include to provide necessary manpower, equipments & machinery for the above work. "			
B0010000	PIPE SUPPORTS PIPE SUPPORTS Supply, fabrication and erection of pipe/ equipment supports (for all sizes/ thickness) including shoes, pipes, cross-ivers, platforms, ladders, railings etc. as required, cradles, turn buckles, T-posts for all types of guides, anchors, special supports for cold/hot insulated pipes etc. if applicable, all necessary equipment, consumables, labour etc. for completing all works including supply of bolts, nuts, washers, U-clamps, wooden blocks etc. as required for supporting, supply and application of paints and primers suitable for EArmal corrosive painting environment as defined in contract document and as per standard specification for painting specification, Drawings, Specification, Standards, other provisions of Contract and instruction of Engineer-in-Charge.			
B0010010 AHR	CS Structural Steel	0.200 TON	200,000.00	#Y
B0011000	NITROGEN SUPPLY			
B0011010 AHR	Supply of Nitrogen for preservation of	400.000 M3	400.00	#Y
	Supply of Nitrogen for preservation of Pipeline/ purging of pipeline / hookup & shut down activities . "EAt: (1) The quantities given above against individual items are indicative and shall EAt be considered to be binding. The quantities may be increased, decreased or deleted at site at the time of actual execution. Procurement shall be done as per actual site condition, approved construction drawings and as per instruction of EIC. The unit rate shall be operated to work out the final payment to the Contractor; a (2) Quantities given against individual item may be utilised / used for other consumers in same area. "			
B0012000	INSTALLATION OF EQUIPMENT OTHER THAN ITE INSTALLATION OF EQUIPMENT OTHER THAN ITEM NUMBER B009000			

B0012010	Installtion of above ground owner suppl	1 TON	35,000.00	
	"Installtion of above ground owner supplied equipment other than listed in item EA B009000 at work site up to mechanical completion in all respect, inclusive of painting suitable for EArmal Corrosive Environment at all elevation , fixing of foundation bolts, welding wherever required, aligning, grouting, hooking-up, enabling works as required and completing in all respect as per drawings, specification and instruction of EIC. Contractor scope also include to provide commissioning assitance during pre-commissing / commissioning of equipments"			
CV001.00.0	SURVEY WORKS			
0	SECTION-C [CIVIL / STRUCTURAL & ARCHITECTURAL] SURVEY WORKS			
CV001.01.0	Conducting topographical	150 M2	300.00	#Y
0AHR	ground/land sur			
	"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, including providing in tabulation girth wise EA of trees etc as specified, plotting and developing topographical contour maps, showing true EArth 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. EAtc: Survey work shall be carried out by survey agency approved by Contractor and shall be submitted to PMC/EIC for review."			
CV002.00.0	GEO TECHNICAL			
0	INVESTIGATION			
CV002.01.0	Conducting soil investigation with	1 EA	50,000.00	
0	borin			
	Conducting soil investigation with boring of minimum150mm dia. boreholes of maximum 10m depth including all field tests and laboratory tests, mobilization and demobilization of equipments & personnel etc. for soil investigation for EA 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.			
CV003.00.0	FENCING & GATE			
0				
CV003.01.0	Supplying, fixing and tensioning in	300 ZRM	2,500.00	#Y
0AHR	posi			
	Supplying, fixing and tensioning in position 2.5mm(12gauge), 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).			
CV003.02.0	Supplying, fabricating and fixing	100 KG	200.00	

0	in			
	"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) For EArmal Industrial Environment."			
CV003.03.0	Supplying, fabricating and fixing G.I.	150 M2	2,000.00	
0	c			
	"Supplying, fabricating and fixing G.I. chain link fencing with 3.15mm 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, stretcher bars, staples, etc. required for fixing the fencing, fixing of chain link fencing between straining posts, fixing of bottom of fencing to a concrete sill beams by means of hairpin beams by means of hairpin staples, including supply and fixing line wires, complete as per drawings, specifications and directions of Engineer -in- Charge."			
CV003.04.0	Providing and fixing in position	400 KG	180.00	
0	Stee			
	"Providing and fixing in position Steel Entrance Gates consisting of MC- 75 framework for shutters, 20mm square MS. vertical bars welded to the framework @100mm c/c, 3mm thick MS. sheet boxing, locking arrangement, 25mm thick, 75mm dia MS. wheel with ball bearing including fixing the gate to RCC/ masonry by MS. hinge arrangement (75mm x 75mm x 6mm MS. angles, bolt, washers) and MS. hold fast grouted with M-15 grade concrete, providing and fixing MS. pivot, 50mm x 50mm x 6mm MS. Tee bent to shape and embedded in road surface for gate opening track, gate stopper, painting the gate with approved shade and quality synthetic enamel paint (two coats) and a coat of approved quality primer, ensuring smooth operation of the gate etc. all complete as per attached standard drawing.			
	"			
CV004.01.0	Earthwork in excavation and filling	50.000 M3	800.00	#Y
0AHR	in a			
	Earthwork in excavation and filling in all types of soil except soft rock and hard rock for general site grading for all heights and depths including clearing and stripping etc. in excavation areas, removing shrubs, grass, bushes, vegetable growth and other objectionable materials, trees upto and inclusive of a girth of 30 cms. (girth measured at a height of one metre above ground level) including uprooting of roots, etc., dewatering, if necessary, sorting out the excavated soil into serviceable and unserviceable materials in excavation areas and including filling in filling areas with serviceable material for general site grading and roads for all heights and depths to proper levels, slopes, grades and camber including clearing and stripping in filling areas as per specifications, consolidating exposed natural soil to 90% of max. laboratory dry density as per IS:2720 Part-VII, cutting of trees of girth upto and inclusive of 30 cms, removal of vegetation, breaking clods, spreading in layers EAt exceeding 30 cms loose thickness, watering, ramming and compacting with power road rollers to give at least 90% of max. laboratory dry density, dressing, leveling, testing, etc. and disposal of unserviceable materials/surplus earth if any, as directed by Engineer-in-Charge including stacking and/or dumping and dressing the same in demarcated areas etc. complete as per specifications, drawings and directions of Engineer-in-Charge. (The leads for the above mentioned operations shall be within the boundry limit of the plant and measurement shall be taken in the cutting area only).			
CV005.00.0	PAVER BLOCK Flooring			
0				

CV005.01.0 Supplying and placing in position as **100 M2** **2,400.00**
0 per

"Supplying and placing in position as per approved pattern of Cement Concrete Inter locking paver block 80 mm thick of approved shape, rough finish, M-40 strength of approved brand laid over the sand bed of minimum 100 mm thick. The CC interlocking blocks to be of uniform Grey colour or as approved by EIC complete in all respects , as per technical specifications and directions of the Engineer-in-charge

EAt :-

1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such paver blocks, sand, earth work in excavation in cutting earth in all conditions, shuttering with all bye works and sundry works.
2. To be read with in conjunction with Particular Job Specification
3. Supply of all materials and providing labour, tools and tackles are in contractor's scope"

CV006.00.0 RCC HUME PIPE CULVERT
0

CV006.01.0 Providing, laying, jointing and **10 M** **3,000.00**
0 testing

Providing, laying, jointing and testing RCC hume pipes of 300mm dia. and np3 class for culverts, road crossing, incl. excavation in all strata up to an average depth of 1 m cutting, collars jointing in 1:2 cement mortar etc. complete as per specifications and as directed by the engineer-in charge.

CV006.02.0 Providing, laying, jointing and **2 M** **5,000.00**
0 testing

Providing, laying, jointing and testing RCC hume pipes of 500mm dia. and np3 class for culverts, road crossing, incl. excavation in all strata up to an average depth of 1 m cutting, collars jointing in 1:2 cement mortar etc. complete as per specifications and as directed by the engineer-in charge.

CV007.00.0 KERB STONE FIXING
0

CV007.01.0 Providing and fixing precast concrete **2 M** **7,000.00** **#Y**
0AHR Ke

"Providing and fixing precast concrete Kerb stones (125 wide X 300 deep) of M-30 grade or equivalent of approved make and shape at or near ground level as per approved pattern and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand) including the cost of required centering, shuttering and finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) wherever required over 75 mm thick PCC 1:4:8 levelling course, complete in all respects as per scope of work, detailed construction drawings, technical specifications and directions of the Engineer-In-Charge.

EAt:-

1. Rate to include all labour, tools, tackles, factory manufactured & steam cured Kerb Stones, shuttering, transportation, water charges, earth work if any, PCC etc complete

"

CV008.00.0 VALVE PIT
0

CV008.01.0 Supply, & Construction of Valve **1 EA** **70,000.00**
0 Pit-TY

"Supply, & Construction of Valve Pit-TYPE I (3.0m x 1.5 m x 1.5m) in size (internal dimension) as per attached tender drawing, technical specification and direction of Engineer-In-Charge complete in all respect.

EAt: 1. Rate incudes all the supply of material, labour, machinery etc. to complete the job in all respect. EA any separate payment shall be made under other clauses mentioned elsewhere.

2. For stone breaking for making the pit separate payment shall be done as per SOR available in tender.

"

CV009.00.0 SAND FILLING

0

CV009.01.0 Supplying and filling approved **100.000 M3** **3,000.00**
0 SAND of s

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 EAt 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.

CV010.00.0 DEMOLITION OF
0 R.C.C./BRICKS/STONE MASONRY
DEMOLITION OF R.C.C./BRICKS/STONE MASONRY/STEEL WORK

CV010.01.0 Site clearance by demolition of **2.000 M3** **2,500.00**
0 R.C.C./B

"Site clearance by demolition of R.C.C./Brickwork/Stone Masonry/Stone Soling, Flexible pavements etc. along with removing the debris and disposal of unserviceable material to any lead and staking of serviceable materials, handing over serviceable material to concerned department if required as per technical specifications and direction of Engineer-in-charge.

EAt:

1. Rate includes cost of all labour, tools, tackles, hire charges, royalties, levies, leads, loading/unloading, transportation, water, electric power, illumination etc. complete in all respects as per scope of work, detailed construction drawings, technical specifications and direction of Engineer-in-charge.
2. Demolition of RCC/PCC/Brick Masonry/Road will be paid in NET CUM as demolished.

"

CV010.05.0 Site clearance by demolition of **50 KG** **25.00**
0 STEEL work

"Site clearance by demolition of STEEL work etc. along with removing the disposal of unserviceable material to any lead and staking of serviceable materials, handing over serviceable material to concerned department if required as per technical specifications and direction of Engineer-in-charge.

EAt:

1. Rate includes cost of all labour, tools, tackles, hire charges, royalties, levies, leads, loading/unloading, transportation, water, electric power, illumination etc. complete in all respects as per scope of work, detailed construction drawings, technical specifications and direction of Engineer-in-charge.
2. Demolition of steel work will be paid in NET Kg as demolished.

"

CV011.00.0 ERC/IRC
0

CV011.01.0 Construction of ERC/IRC as per Std. **10 M** **300.00**
0 incl

Construction of ERC/IRC as per Std. including supplying and laying in position PVC pipes conforming to IS:4985 Class-I for electrical and instrumentation Road Crossings as per standard drawing and its addendum, including cutting the pipes if necessary, lowering, laying in position to proper levels, etc. embedded in M-20 grade concrete, providing proper jointing as per code requirements or manufacturer's recommendations, etc. including earth work in excavation in all types of soil except soft and hard rock, backfilling and making good the surface, including cutting of new/ existing roads and making good the same including supply of any road material if required, (Back filling with road material shall be done in 150 mm thick layers well watered and compacted), including supplying and providing in the encasement concrete, cable crossing indicator made out of 4 mm thick MS circular plate of dia. 150mm welded to 16

mm dia. MS rod of approximately 1.0 m length and painting and lettering with 2 coats of approved enamel paint of approved colour over a coat of red oxide primer etc., supply and fixing of reinforcement as per drawing, including disposal of surplus earth anywhere within plant boundary limit etc. all complete as per drawings, specifications and instructions of Engineer-in-Charge.

CV012.00.0 EARTH WORK IN FOUNDATION
0

CV012.01.0 Earth work in Excavation below **300.000 M3** **800.00** **#Y**
0AHR ground le

Earth work in Excavation below ground level for all kinds of works in ALL TYPES OF SOIL 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.

CV012.02.0 For depth beyond 1.5m and upto & **50.000 M3** **850.00**
0 inclusi

For depth beyond 1.5m and upto & inclusive of 3.0M

CV012.03.0 Backfilling after execution of the **200.000 M3** **400.00**
0 WORK

Backfilling after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps, including re-excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness EAt 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.

CV012.04.0 EARTHWORK IN FILLING **50.000 M3** **1,800.00**
0 including supply by

"EARTHWORK IN FILLING including supply 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 EAt exceeding 15 cms., watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% of the maximum laboratory dry density, dressing, trimming, levelling the top surface etc. in foundations, plinths, trenches etc. all complete.
"

CV012.05.0 Transporting and disposing the **50.000 M3** **300.00**
0 SURPLUS E

"Transporting and disposing the SURPLUS EARTH AND DEBRIS including shrubs and vegetations from construction area beyond the initial lead of 100M including re-excavating the deposited soil excavated earlier, transportation, loading, 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)

i) Upto 1.0KM

"

CV013.00.0 PLAIN & REINFORCED CEMENT
0 CONCRETE:

CV013.01.0 Providing and laying PLAIN **40.000 M3** **9,000.00**
0 CEMENT CONCRE

"Providing and laying PLAIN CEMENT CONCRETE for all depths below and upto plinth level in foundations, drains, fillings, EAn-suspended floors, pavements & ramps or any other works etc. including

shuttering, tamping, ramming, vibrating, curing, shuttering 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 of EAminal mix 1:4:8 by volume (1 Cement: 4 Coarse Sand: 8 Crushed Stone Aggregates/Gravels with 40mm and down size graded crushed stone aggaregates.

"

CV013.03.0 Concrete of EAminal mix of 1:5:10 **2.000 M3** **8,000.00**
0 by vol

Concrete of EAminal mix of 1:5:10 by volume (1 Cement :5 Coarse Sand : 10 Crushed Stone Aggaregates/Gravels).

CV013.04.0 Providing and laying PLAIN **1.000 M3** **12,000.00**
0 CEMENT CONCRE

Providing and laying PLAIN CEMENT CONCRETE for all depths below and upto plinth level in foundations, drains, fillings, EAn-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 aggaregates/Gravels.

CV013.05.0 Providing and laying REINFORCED **130.000 M3** **14,000.00**
0 CEMENT C

Providing and laying REINFORCED CEMENT CONCRETE OF M-25 GRADE with 20mm and down size graded crushed stone aggregates/gravel in SUB-STRUCTURE of all types e.g. foundations, footings, raft, beams, slabs, pile caps, retaining walls, jambs, counterforts, buttresses, trenches, manholes, pipe encasement, catchpits, drains, RCC pits, equipment/machine foundations, pedestals, pipe sleepers, columns, plinth beams, suspended floors, beams, staircases, landings, steps, brackets etc. (including single pour concreting upto 250m3), including cost of admixtures if used, providing pockets, openings, recesses, chamfering etc., wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. all complete (excluding the Cost of Reinforcement and Shuttering) for all depths below and upto plinth level in any shape, position and thickness etc. all complete as specified, shown and directed.

CV013.06.0 Providing and laying REINFORCED **20.000 M3** **15,000.00**
0 CEMENT C

Providing and laying REINFORCED CEMENT CONCRETE OF M-25 GRADE with 20mm and down size graded crushed stone aggregates/gravel in SUPER STRUCTURE in suspended floors, slabs, beams, columns, walls including counterforts, staircases, landings, steps, facias, fins, mouldings, gutters, shelves, windowsills, caEApies, lintels, girders, ducts, brackets, chajjas with drip moulds, pedestals, posts, struts, equipment/machine foundations, ramps etc. (including single pour concreting upto 250m3) including cost of admixtures if used providing pockets, openings, recesses, chamfering wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. all complete (excluding the Cost of Reinforcement and Shuttering) for all heights above plinth level in any shape, position, thickness etc. all complete as specified, shown and directed.

CV013.07.0 Manufacturing, transporting, **1.000 M3** **12,000.00**
0 supplying a

Manufacturing, transporting, supplying and erecting in position Reinforced Cement Concrete PRECAST ELEMENTS such as columns, beams, cover slabs, lintels, louvers, fins, shelves etc. of M-25 grade with 20mm and down size graded crushed stone aggregates/gravel, for all leads, levels, shapes and thickness including all moulds, shuttering and centering, vibrating, tamping, curing, chamfering wherever required, finishing the top surface with cement mortar 1:3 (1 Cement : 3 Sand) to give a smooth and even surface, or EAn skid finish as specified, providing lifting hooks, metal inserts, making holes pockets, (only MS. inserts to be measured & paid separately) transporting to site, erecting, levelling, aligning and fixing in position with cement mortar 1:3 (1Cement : 3 Coarse Sand), breaking bricks and/or concrete surfaces and making good the same etc. all complete (excluding the Cost of Reinforcement) and as directed.

1) EA unit upto and inclusive of 500 Kg.

CV014.00.0 CENTERING AND SHUTTERING
0

CENTERING AND SHUTTERING

Providing and fixing CENTERING AND SHUTTERING in foundations, footings, raft beams, slabs, pile caps, retaining walls, jambs, counter-forts, buttresses, trenches, equipment/machine foundations, pedestals, abutments, pipe sleepers, columns, plinth beams, lintels, suspended slabs, beams, staircases, landings, steps, EAn-circular tunnels/bunkers/silos/ shafts/ hoppers/liquid storage structures etc. including shuttering for single pour concreting, strutting, bracing, propping etc., keeping the same in position during concreting and removal of the same after specified period etc. for Straight/ Inclined Shuttering, keeping necessary provision for inserts, projecting dowels, anchor bolts or any other fixture etc. all complete and as specified and directed.

CV014.01.0 i) For all depths below and upto & **350 M2** **600.00**
0 incl

i) For all depths below and upto & inclusive of plinth level.

CV014.02.0 ii) For all heights above plinth level **180 M2** **800.00**
0

CV015.00.0 REINFORCEMENT
0

CV015.01.0 Supplying and placing in position **10 MT** **85,000.00**
0 HIGH S

Supplying and placing in position HIGH STRENGTH DEFORMED STEEL BARS REINFORCEMENT (conforming to IS:1786, Grade Fe 415), for R.C.C. work including transporting the Steel, straightening, cleaning, decoiling, cutting, bending to required shapes and lengths as per details, binding with contractor's own 16 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.

CV016.00.0 STRUCTURAL STEEL WORKS
0

CV016.01.0 Supplying, transporting, storing, **1 MT** **160,000.00**
0 fabric

Supplying, transporting, storing, fabricating in position and testing/examining bolted and/or welded STRUCTURAL STEEL WORKS at all levels and locations including all buildup sections/compound sections made out of rolled sections and/or plates/bent plates in trusses, purlins, wind ties, wind girders, columns, portals, racks, frameworks, crane gantries, surge girders, bracings, floor beams, lifting beams, moEA rails, platforms, staircases (excluding chequered plates and gratings), ladders, stoppers, brackets, side runners, sagrods, supports for equipment and techEAlogical accesories and process piping, hand railings, posts, conveyor galleries, trestles, towers, masts, junction houses etc., cutting to required size, straightening/bending if required, edge preparation, cleaning, preheating, bolting/welding of joints, (including sealing the joints of box sections with continuous welding), finishing edges by grinding, fixing in line and level with temporary staging & bracing and removal of the same after erection, grouting with Ordinary Grout or premix free flow EAnshrink Grout as specified, including preparation and submission of detailed fabrication drawings and applying primer after fabrication as per specification (for EArmal corrosive environment), etc. all complete

CV017.00.0 MISCELLANEOUS STEEL
0 WORKS

CV017.01.0 Supplying, fabricating, fixing and **1 MT** **170,000.00**
0 keepi

Supplying, fabricating, fixing and keeping in position at all levels and locations THREADED ANCHOR BOLTS of all diaMs and EAmenclature 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 MS. rounds to required diaM, threading,

welding, providing necessary templates and auxilliary 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.

CV017.02.0 Supplying, transporting, storing, **1 MT** **160,000.00**
0 fabric

Supplying, transporting, storing, fabricating and fixing in position MS. 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 auxilliary dummy structures to support the heavy inserts, painting exposed surfaces with a coat of Red Oxide Zinc Chromate Primer etc. all complete for all depths and heights as specified and directed.

CV017.03.0 Supplying, fabricating and erecting **1 MT** **160,000.00**
0 in p

Supplying, fabricating and erecting in position at all levels and locations bolted, clamped and/or welded GRATING (fabricated as per standards) made out of MS. flats/MS. flats with MS. rounds in walkways, platforms, stair treads etc. including cutting to required size, shape, making holes, EAtches, openings of required size, EAing, straightening if required, making the edges smooth, removing the burrs, fabricating clamps, fixing, welding, preparation and submission of fabrication drawings and preparing the surfaces for painting, surface cleaning, wire brushing, removal of mill scale, dust, rust, oil or grease and applying one shop coat of Red Oxide Zinc Chromate Primer after fabrication etc. all complete as specified and directed.

CV017.04.0 Supplying, fabricating and erecting **1 MT** **155,000.00**
0 in p

Supplying, fabricating and erecting in position at all levels and locations bolted, clamped and/or welded GRATING (fabricated as per standards) made out of MS. flats/MS. flats with MS. rounds in walkways, platforms, stair treads etc. including cutting to required size, shape, making holes, EAtches, openings of required size, EAing, straightening if required, making the edges smooth, removing the burrs, fabricating clamps, fixing, welding, preparation and submission of fabrication drawings and preparing the surfaces for painting, surface cleaning, wire brushing, removal of mill scale, dust, rust, oil or grease and applying one shop coat of Red Oxide Zinc Chromate Primer after fabrication etc. all complete as specified and directed.

CV018.00.0 BRICK MASONRY
0

CV018.01.0 Providing and laying BRICK **60.000 M3** **8,000.00**
0 MASONRY WITH

Providing and laying BRICK MASONRY WITH BRICKS OF CLASS 7.5 in cement mortar 1:6 (1 Cement : 6 Sand) in one or more brick thickness and in any shape (excluding circular/curved brick masonry) at all depths and height including the cost of materials, labour, scaffolding/ staging, sampling & testing, soaking of bricks, cutting and laying of bricks, providing recesses, making openings of any shape & size, finishing the joints flush below ground level and raking out the joints above ground level, sealing the gap between masonry and soffit of beam/slab, embedding the fittings & fixtures, curing, etc. all complete as per specifications.

CV018.02.0 Providing and laying HALF BRICK **20 M2** **8,000.00**
0 MASONRY

Providing and laying HALF BRICK MASONRY with bricks of CLASS 7.5 in cement mortar 1:4 (1 Cement : 4 Sand) in any shape, including the cost of materials, labour, scaffolding/staging, sampling and testing, soaking of bricks, cutting and laying of bricks, providing openings of any shape & size, raking out the joints, supplying and placing 2 EA 6mm dia. MS. Bars at every fourth course, sealing the gap between masonry and soffit of beam/slab, embedding the fittings and fixtures, curing etc. all complete as per specification. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY CONTRACTOR.

CV018.03.0	External Walls	60 M2	4,500.00	#Y
0AHR	External Walls plain cement plaster Average 18mm thick 1:4 (1 cement : 4 sand). Cement supplied by the Contractor at their cost.			
CV018.04.0	Painting of Walls External walls:-	1 M2	250.00	
0	Provi	Painting of Walls External walls:- Providing & applying 3 coats of waterproof decorative cement paint of approved make and approved shade, cleaning, including preparation of surfaces, base primer, curing etc. all complete		
CV019.00.0	Supply & Installation of Porta Cabin			
0				
CV019.01.0	Supply and installation of Porta	5 EA	360,000.00	
0	Cabin o	Supply and installation of Porta Cabin of size (4 M X 3 M) as per drawing attached in bid document including associated civil foundation works.		
CV020.00.0	Supplying and filling of Bouldors			
0_1				
CV020.00.0	Supplying and filling of various sizes	100.000 M3	5,000.00	#Y
0_2AHR	a	Supplying and filling of various sizes and type of boulders as per site requirement or as per direction of EIC. Rate involves supply, transportation, unloading at site, laying, etc. to complete the work in all respect.		
D00100	CATHODIC PROTECTION SYSTEM	SECTION-D [CATHODIC PROTECTION WORKS] CATHODIC PROTECTION SYSTEM All works shall be carried out as per approved drawings and specifications. Work shall include design / residual engineering, preparation of CP schematic drawing, supply, installation, testing and commissioning of complete CP system, all related civil work, including providing foundations, supply of all materials as specified in SCC, instruments, consumables, touch-up epoxy paint as required, including supply of paint, tools, tackles, labor, transportation for satisfactory completion of work and as per directions of EIC. In addition to the items mentioned below the Contractor's scope shall include connecting the new pipelines to existing pipelines/cathode-points of TR units by means of jumpering/bonding.		
D00110_1	Complete Detailed Survey, Engineering,	5.500 KM	60,000.00	
	Complete Detailed Survey, Engineering, Supply, laying, installation, termination, testing & commissioning of Cathodic Protection system complete Civil Works and all material and labour as per specifications, drawings and instruction of EIC. Work to be completed in all respects.			
D00110_2	Supply, laying & testing of 600 / 1100V			
	Supply, laying & testing of 600 / 1100V grade single core, stranded tinned copper conductor cables, XLPE insulated / PVC sheathed, armoured as per IS of following sizes. The work shall include excavation for cable trenching at min. 1.2 m below GL in all types of soil including rock, backfilling of cable in trenches, lugging, ferrulling, making termination as per drawings & specification. Supply of all tools, tackles, consumables, etc. for completion of work, in all respect and as per directions of EIC.			
D00111AHR	35 mm2	50 M	1,000.00	#Y
D00112	25 mm2	100 M	800.00	

D00113	10 mm2	200 M	600.00
D00114	6 mm2	200 M	350.00
D00120	Making cable to pipe connections by ther Making cable to pipe connections by thermit welding for following cables, including excavation for exposing pipe, removal of coating / wrapping, thermit welding recoating of the area of weld by epoxy filling, holiday testing, backfilling, supply of all tool, tackles, consumables thermit weld kits & labour for satisfactory completion of work.		
D00121	6 mm2 Cables	50 EA	250.00
D00122	10 mm2 Cables	50 EA	350.00
D00123	25 mm2 Cables	20 EA	450.00
D00124	35 mm2 Cables	5 EA	650.00
D00130	Supply & installation of test station as	5 EA	24,000.00
	Supply & installation of test station as per enclosed drawings and technical specifications. Work shall include all related civil works including foundation, termination of cables inside the test stations along with lugs & ferules sealing of cable entry space with bitumen compound supply of all materials, consumables, tools, tackles, etc. for satisfactory completion of work and as per directions of EIC.		
D00131	Supply & installation of Zn aEAde at a d	10 EA	20,000.00
	Supply & installation of Zn aEAde at a depth of 1.5 - 2.0m on all type of soil including rock alongwith 10m tail cable of 25mm2 high conductivity, tinned, stranded copper conductor, 650 / 1100V grade, XLPE insulated, armoured, PVC sheathed for grounding electrical surges in the pipeline at HT crossings. The work includes excavation, laying of Zn aEAde of minimum 20 Kg weight, backfilling & all related civil work, complete in all respects. The work shall also include aEAde to tail cable connection, cable laying and termination inside the test station.		
D00132	Supply, installation, testing and commis	10 EA	15,000.00
	Supply, installation, testing and commissioning of surge diverter inside the manual test stations at terminal locations, complete in all respects as per the specifications and directions of EIC.		
D00133	Supply & installation of Mg aEAdes after	10 EA	17,000.00
	Supply & installation of Mg aEAdes after pre-packaged with chemical backfill as per enclosed drawing. The aEAdes will have to be buried at a depth of 1.5 to 2m on all types of soil including rock at approved location. The work shall include all earth work, laying of aEAdes & cables in position and termination of cable inside test stations with lugs, shunt & variable resistors, supply of all tools, tackles, consumables, labour transportation of materials, etc. required for satisfactory completion of work and directions of EIC.		
D00134	Supply, installation, testing and commis	10 EA	27,000.00
	Supply, installation, testing and commissioning of spark-gap arrestors across insulating joints.		
D00135	Supply, installation, testing and commis	1 EA	70,000.00
	Supply, installation, testing and commissioning of Electrolytic Polarization cell (as per approved design) EAt: (1) The quantities given above against individual items are indicative and shall EAt be considered to be binding. The quantities may be increased, decreased or deleted at site at the time of actual execution. Procurement shall be done as per actual site condition, approved construction drawings and as per instruction of EIC. The unit rate shall be operated to work out the final payment to the contractor; (2) In EA area, quantities given against individual item may be utilised / used for other consumers in same area.		

D00200	CATHODIC PROTECTION SYSTEM (PCP) CATHODIC PROTECTION SYSTEM (PCP) " Design, Engineering, Supply, Installation, Testing & Commissioning of Permanent Cathodic Protection (PCP) System (for 25 years) using LIDA single Electrodes or string (MMO) aEAdes with backfill, Junction Box, AJB, CJB, Cables, Monitoring System, any equipment and hardwares as per specification including Pre design surveys, Packing, Transportation to Project site, Post Commissioning Surveys of PCP system, system monitoring with other installation items required for completeness of the job. Design package including Site survey, formulae used, Design calculations, BOQ, Technical Specifications and data recording formats, Quality Assurance Control (QA/QC) methodology and submission of monitoring reports for owner evaluation, owner/consultant approved survey report, also includes all materials, equipments, consumables, start up/commissioning spares, etc., including transportation, storage of materials at site, As-built drawings, Documentation and O&M Manual. "			
D00210AHR	Design Engineering, Soil Resistivity Measurement Design Engineering, Soil Resistivity Measurement, Soil Chemical analysis , Testing and Commissioning of Pipeline length	3.500 KM	8,000.00	#Y
D00211	Transformer Rectifier Unit			
D00212	Supply and Installation of GSM BASED T Supply and Installation of GSM BASED TRU 10V/5A Transformer Rectifier Unit with operating range of 230 V AC and DC Output Rating - 10V/5A min, with GPS based current interrupter and full compliance to IEC specs exactly as per technical specification of tender document as per the detailed specifications, data sheet & approved drawings. It also including civil foundations, structural support etc. dual earthing of TR unit.	1 EA	300,000.00	
D00213_1	AEAd Ground Bed Assemblies (Deep well)(AEAd Ground Bed Assemblies (Deep well)(to be decided on the basis of soil resistivity data)			
D00213_2	Supply and Installation of Deep well AEA Supply and Installation of Deep well AEAd Beds with dual aEAde tail cable (from top and bottom of the aEAde string) of suitable length upto AEAd Junction Box) for permanent cathodic protection system by impressed current method to protect external surface of 3 layers PE coated pipeline,against corrosion as per specifications for minimum service life of 30 years by using deep well aEAde bed construction of minimum 50 M deep,with minimum 8'' (200 mm) Dia MS pipe filled with Petroleum Coke Breeze of resistance ? 5? ,vent pipe, dead weight & a cable string of 10 mm2 size contains minimum 6 EA mixed metal oxide coated titanium tubular aEAdes of size ST 1.6/50 cm, EA MMO aEAde has current output of 2.5 Amp and other accessories like vent pipe, Calcined petroleum coke breeze, Rigid PVC pipe of 12" (300mm) with minimum 15 M in length (ie. 15 M inactive aEAde bed), Nylon Rope, etc.from the approved vendor as per specification.	1 EA	350,000.00	
D00214	Supply and Installation AEAd Junction B Supply and Installation AEAd Junction Box with all accessories (Like variable resistor, shunt, bus bar etc.,)	2 EA	17,000.00	
D00215	Supply and Installation Cathode Junction Supply and Installation Cathode Junction Box with all accessories (Like shunt, bus bar etc.)	2 EA	16,000.00	

D00216	Supply and Installation Reference Electr Supply and Installation Reference Electrode Junction Box/test station with all accessories	2 EA	30,000.00
D00217	Supply and Installation Permanent Refere Supply and Installation Permanent Reference Cell with Special Backfill in Cotton bag	5 EA	30,000.00
D00220	Supply & Installation of cables # Anneal Supply & Installation of cables # Annealed high conductivity, tinned, stranded copper conductor, XLPE insulated, 650/1100 V grade, PVC,FRLS sheathed or as per specification and Miscellaneous such as termination, tagging, excavating the trench for cable laying, backfilling, etc., including the cost of all labour, materials, tools and tackles.		
D00221	1C x 6 sqmm armoured - Potential Measure 1C x 6 sqmm armoured - Potential Measurement & ref. cell cable (RE/PE to REJB & REJB to CJB)	50 M	275.00
D00222	10c x 2.5 sq mm measurement cable (from 10c x 2.5 sq mm measurement cable (from CJB to TRU)	50 M	490.00
D00223	1C x 35 sqmm armoured (aEAde & cathode h 1C x 35 sqmm armoured (aEAde & cathode header cable)	50 M	550.00
D00224	3C x 10 sqmm armoured conductor (AC inco 3C x 10 sqmm armoured conductor (AC incomer power supply cable from Main DB to TR unit - PVC/PVC, armoured)	10 M	600.00
D00225	Supply and Installation of pipe to cable Supply and Installation of pipe to cable connection by Pin Brazing Encapsulation method	5 EA	4,000.00
D00226	Polarisation Coupons	5 EA	3,500.00
D00230	Monitoring the Installed (PCP) System fo Monitoring the Installed (PCP) System for three months after handing over the systeM This includes monthly monitoring for PSP reading and weekly monitoring of TR unit for reading of TR parametres.	5 LS	50,000.00
D00240	Interference and Mitigation Survey (Soli Interference and Mitigation Survey (Solid State decoupling device, Isolating Spark gap, zinc grounding cell and Test station at HT line locations have already been installed in the existing TCP system of the pipeline). However, if any other mitigation measures required then same will be in scope of PCP contractor.	5 EA	25,000.00
D00250	Testing and commissioning of PCP system	5 SET	60,000.00
D00260	CIPL Survey	10.000 KM	15,000.00
D00270	DCVG Survey DCVG Survey	10.000 KM	20,000.00

EAt: (1) The quantities given above against individual items are indicative and shall EAt be considered to be binding. The quantities may be increased, decreased or deleted at site at the time of actual execution. Procurement shall be done as per actual site condition, approved construction drawings and as per instruction of EIC. The unit rate shall be operated to work out the final payment to the contractor; (2) In EA area, quantities given against individual item may be utilised / used for other consumers in same area.

E00100	SECTION-E [ELECTRICAL WORKS] SECTION-E [ELECTRICAL WORKS] Supply, installation, testing, commissioning of Street Lighting Fixture suitable for 250W HPMV or Equivalent LED Lamps on Lighting Poles (4M Height) with aluminium paint complete with mounting bracket, flameproof control gear box, internal cable from fitting to junction box, flameproof fittings etc. including civil foundation with pipe inserts for cables and connecting work, with all material and labour as per specifications, drawings and instruction of EIC. Work to be completed in all respects.	10 EA	25,000.00	
E00110	Supply, installation, testing, commissioning of Indoor Lighting Fixtures suitable for 26/36W LED Lamps for including all fixing arrangements and all material and labour as per specifications, drawings and instruction of EIC. Work to be completed in all respects.	1 EA	12,000.00	
E00200	Supply, installation, testing, commissioning of Exhaust fans (safe area) for including all fixing arrangements and all material and labour as per specifications, drawings and instruction of EIC. Work to be completed in all respects.	1 EA	10,000.00	
E00250 AHR	Supply, installation, testing, commissioning of Exhaust fans (Corrosion Proof Type) for including all fixing arrangements and all material and labour as per specifications, drawings and instruction of EIC. Work to be completed in all respects.	1 EA	25,000.00	#Y
E00300	Floor mounted MEDB consisting of busbar Floor mounted MEDB consisting of busbar chamber, cable alley, Incomer - 1 EA 200 Amp FP MCCB, Auto healthy phase selector & Outgoing - 2 EA 100 Amp FP MCB, 9 EA 63 Amp FP MCB, 3 EA 32 Amp FP MCB(as per technical specification, data sheet & SLD enclosed with this tender), complete with amM, voltM, energy M, voltage selector switch, indicating Lamps etc.	1 EA	22,000.00	
E00310AHR	Recess/Surface mounted Indoor Lighting P Recess/Surface mounted Indoor Lighting Panel(ILP) Consisting of 40 Amp FP MCB+ELCB as incomer and 12 EA 10A DP MCBs as out goings.	1 EA	35,000.00	#Y
E00320AHR	Recess/Surface mounted Power Panel(PP) C Recess/Surface mounted Power Panel(PP) Consisting of 63 Amp FP MCB as incomer and 9 EA 20A DP MCBs as out goings.	3 EA	35,000.00	#Y
E00330	Recess/Surface mounted Outdoor Lighting "Recess/Surface mounted Outdoor Lighting Panel OLP (For External Lighting) Consisting of 40 Amp FP MCB+ELCB as incomer, Contactor, timer, A/M switch, PB, indication Lamp etc Outgoing Through Timer:	1 EA	25,000.00	

6 EA 16 Amp DP MCB"

E00400AHR	Supply, installation, testing, commissio	1 EA	15,000.00	#Y
	Supply, installation, testing, commissioning of Flameproof Flood Lighting Fixtures suitable for 250/400W HPMV or Equivalent LED Lamps for including all fixing arrangements on top of terrace of container and all material and labour as per specifications, drawings and instruction of EIC. Work to be completed in all respects.			
E00500AHR	Supply, installation, testing, commissio	1 EA	18,000.00	#Y
	Supply, installation, testing, commissioning of Modular Switch Board for including all fixing arrangements and all material and labour as per specifications, drawings and instruction of EIC. Work to be completed in all respects.			
E00510	Supply, installation, testing, commissio	1 EA	20,000.00	
	Supply, installation, testing, commissioning of wall mounted 24V DCDB for including all fixing arrangements and all material and labour as per specifications, drawings and instruction of EIC. Work to be completed in all respects.			
E00600AHR	Supply, installation, testing, commissio	1 EA	25,000.00	#Y
	Supply, installation, testing, commissioning of 5/15A Switch Socket for including all fixing arrangements and all material and labour as per specifications, drawings and instruction of EIC. Work to be completed in all respects.			
E00700	Design, manufacture, shop testing, inspe	1 EA	60,000.00	
	"Design, manufacture, shop testing, inspection, packing, forwarding, delivery, installation, testing and commissioning at site of UPS systems as per specification, direction of Engineer-in-charge and following rating: (a) 5 kVA, 230V Single Phase, 50 HZ, parallel redundant industrial type, UPS system suitable for input power supply voltage of 415 V, TPN,+/-10% output 230 V +/-1%, AC with solid state voltage stabilizer for bypass supply, ACDB/DCDB and 12 hrs. Battery(Ni-Cd) back-up (b) All interconnecting cables(FRLS) among UPS, Rectifier, battery stand, ACDB/DCDB etc."			
E00750	Design, manufacture, shop testing, inspe	1 EA	65,000.00	
	"Design, manufacture, shop testing, inspection, packing, forwarding, delivery, installation, testing and commissioning at site of UPS systems as per specification, direction of Engineer-in-charge and following rating: (a) 2 kVA, 230V Single Phase, 50 HZ, parallel redundant industrial type, UPS system suitable for input power supply voltage of 415 V, TPN,+/-10% output 230 V +/-1%, AC with solid state voltage stabilizer for bypass supply, ACDB/DCDB and 12 hrs. Battery(Ni-Cd) back-up (b) All interconnecting cables(FRLS) among UPS, Rectifier, battery stand, ACDB/DCDB etc."			
E00800	Design, manufacture, shop testing, inspe	1 EA	30,000.00	
	"Design, manufacture, shop testing, inspection, packing, forwarding, delivery, installation, testing and commissioning at site of UPS systems as per specification, direction of Engineer-in-charge and following rating: (a) 1 kVA, 230V Single Phase, 50 HZ, parallel redundant industrial type, UPS system suitable for input power supply voltage of 415 V, TPN,+/-10% output 230 V +/-1%, AC with solid state voltage stabilizer for bypass supply, ACDB/DCDB and 12 hrs. Battery(Ni-Cd) back-up			

(b) All interconnecting cables(FRLS) among UPS, Rectifier, battery stand, ACDB/DCDB etc."

E01000	Supply, installation, testing & commissioning of the complete earthing system, earth electrodes/pit, earth main ring, earthing of Ming skid, electrical equipments, instrument panels, field instruments, process equipments & pipes / flanges including all associated civil work with all material & labour as per specification & drawings approved by the company. EA earthing system shall include the following.		
E01010	65mm dia 3 M Long GI PIPE Electrode with 65mm dia 3 M Long GI PIPE Electrode with 6mm thick chequered plate cover, display board etc	16 EA	1,000.00
E01020	600x600x3mm copper plate Electrode with 600x600x3mm copper plate Electrode with 6 mm thick chequered plate cover, display board etc	16 EA	3,000.00
E01030	GI Strip (50X6) mm	50 M	200.00
E01040	GI Strip (25X6) mm	400 M	350.00
E01050	1C 25 Sq.mm PVC insulated Cu Conductor	10 M	600.00
E01060	10 SWG GI wire	40 M	250.00
E01070	GI Wire, Copper wire, wire rope and all GI Wire, Copper wire, wire rope and all balance earthing material including copper strip (50 mmX 2 mm thick) jumper for flanges etc.as per the specification.	1 SET	15,000.00
E01200	Supply, laying, installation, termination Supply, laying, installation, termination, testing, commissioning of 1100 Volt PVC insulated, PVC sheathed and armoured / unarmoured cables in trenches, excavated underground / trays, pulling through pipes and its proper sealing including underground trench and supply of hume pipes for road crossing, etc. as required as per specifications and drawings approved by the company.		
E01220	4C X 6 Sqmm Cu conductor XLPE Insulated 4C X 6 Sqmm Cu conductor XLPE Insulated Armoured Power Cable of 1100V Grade	200 M	450.00
E01230	3C X 2.5 Sqmm Cu conductor XLPE Insulate 3C X 2.5 Sqmm Cu conductor XLPE Insulated Armoured Power Cable of 1100V Grade	100 M	275.00
F00100	Supply, Calibration and Installation of SECTION-F [INSTRUMENTATION WORKS] "Supply, Calibration and Installation of instrumentation items listed below: (For details, refer instrumentation specifications)"		
F00110	Pressure Gauge of different Range and ra "Pressure Gauge of different Range and rating as per site requirement Supply, testing, installation, erection and commissioning. Also supply of erection material like, connector SS316 tube, SS316 fittings, manifold, mounting stand and all other required material. Bourdon type with 2-way manifold, direct mount, 150mm dial, wetted part SS316, IP 65 rated, blow out protection and shatter	10 EA	15,000.00

proof heavy duty glass. (Refer the Data Sheet attached in Technical Volume)"

F00120AHR	Pressure Transmitter of different Range "Pressure Transmitter of different Range and rating as per site requirement Supply, testing, installation, erection and commissioning. Also supply of erection material like connector, SS316 tube, SS fittings, manifold, mounting stand and all other required material. Smart HART, Ex'd', IP-65, 24 VDC 2-wire loop powered. (Refer the Data Sheet attached in Technical Volume)"	1 EA	75,000.00	#Y
F00130AHR	Temperature Gauge - skin type, direct mo "Temperature Gauge - skin type, direct mount as per site requirement Supply, testing, installation, erection and commissioning. Also supply of erection material like SS armoured capillary, mounting stand and all other required material. Skin type, direct mount, 150mm dial, wetted part SS316, IP 65 rated and shatter proof heavy duty glass. (Refer the Data Sheet attached in Technical Volume)"	10 EA	75,000.00	#Y
F00140AHR	Pressure Switch of different range "Pressure Switch of different range Supply of all consumable material, testing, installation, erection and commissioning."	1 EA	55,000.00	#Y
F00150	Valve Junction Bob - Gas Over Oil Actaut "Valve Junction Bob - Gas Over Oil Actautated Valve (GOOV) of different size and rating as per site requirement Installation of valve junction box and their accessories inclusive of supply of necessary cable glands,connector, tubing terminals and complete with cabling, glanding, termination and earthing followed by testing and commissioning of complete gas over oil actuated valve."	8 EA	15,000.00	
F00300	Gas Detection System (GDS) "Gas Detection System (GDS) Supply, configuration, testing, installation, erection and commissioning of gas detection system including point gas detectors,control unit and junction boxes. Gas detector control unit shall be installed inside the local control panel. Supply, Laying of cable inside the cable trench, cable tray for hardwired signals and power cables from gas sensors to gas detectors control unit including glanding, termination, ferruling, dressing etc. at both ends. Supply of cable trays, installation and erection of cable trays and, supply of erection materials, cable ferrules, cable lugs, cable tie. "			
F00310AHR	IR type, Flame proof, IP-65, housing mat IR type, Flame proof, IP-65, housing material SS316 without display, range 0-100% LEL point hydrocarbon gas detector.	8 EA	125,000.00	#Y
F00360	Junction box	5 EA	20,000.00	
F00370	Cables	100 M	600.00	
F00380AHR	Other accessories such erection Material Other accessories such erection Material, mounting pole etc.	5 LS	25,000.00	#Y
F00390	Gas detection system cabinet	5 EA	115,000.00	
F00500	Cables, Cables Trays and Junction			

boxes

"Cables, Cables Trays and Junction boxes

Supply, laying, installation, erection of signals cable from pressure transmitters, temperature transmitter to junction boxes, junction boxes to local control panel (LCP) and LCP panel to RTU including glanding, termination, ferruling, dressing etc. at both ends.

Laying of cable from remote operated valve junction box to local control panel (LCP) and LCP panel to RTU including glanding, termination, ferruling, dressing etc. at both ends.

Supply of cable trays, cables glands, junction boxes, erection materials, cable ferrules, cable lugs, cable tie.

Installation and erection of cable trays and junction boxes

Preparation of cable trench for burying cable, excavation, restoration of trench and compacting. Supply and laying of bricks and sand, pipes at all the crossings etc.

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F00510AHR	1P X 1 .5 Sq. mm Over all Screened	150 M	700.00	#Y
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F00520	1Q X 1 .5 Sq. mm Over all Screened	150 M	600.00	
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F00530	12P X 0 .5 Sq. mm Individual Screen & Ov	300 M	800.00	
	12P X 0 .5 Sq. mm Individual Screen & Over all Screened			

F00540	12P X 0 .5 Sq. mm Over all Screened	300 M	800.00	
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F00550	3C X 2 .5 Sq. mm Power cable	400 M	600.00	
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F00560	Serial communication cable, Modbus RS -	150 M	600.00	
	Serial communication cable, Modbus RS - 485, PVC Sheathed, 4 pair			

F00570	Junction Box	20 EA	15,000.00	
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F00580AHR	Cable Trays (60 mm wide x 30 mm height)	150 M	700.00	#Y
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F00590	Cable Trays (100 mm wide x 30 mm height)	200 M	800.00	
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F00591AHR	Cable Trays (300 mm wide x 30 mm height)	200 M	1,200.00	#Y
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F00600AHR	Ming skid installation, Testing & Commis	10 EA	225,000.00	#Y
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"Ming skid installation, Testing & Commissioning assistance (For instrumentation part)

Installation of telemetry interface panel (TIC) , Ming panel(flow computer panel) either in field or in control room,

Laying, installation, erection of signals cable from pressure transmitters, temperature transmitter to junction boxes, junction boxes to local control panel (LCP) and LCP panel to RTU including glanding, termination, ferruling, dressing etc. at both ends.

Laying of cable from remote operated valve junction box to local control panel (LCP) and LCP panel to RTU including glanding, termination, ferruling, dressing etc. at both ends.

Supply of consumables used in cables glanding & junction boxes, erection materials, cable ferrules, cable lugs, cable tie.

Preparation of cable trench, excavation, restoration of trench etc. laying of bricks and sand, pipes at all the crossings of cable / tray etc.

Providing the resources/manpower for assistance to OEM of Ming skid during comissioning of skid. "

F00700AHR	PRS skid Testing & Commissioning (For in	2 EA	175,000.00	#Y
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"PRS skid Testing & Commissioning (For instrumentation part)

Testing & Commissioning of JB's, cabling, glanding, termination and earthing cables within the skid."

G00100	System design, Inspection & factory test SECTION-G [TELECOM WORKS] System design, Inspection & factory testing, FAT, SAT, training, installation, commissioning, Trial run, pre-factory tests, packing, forwarding and supply of all goods including commissioning spares & documentation, pre-commissioning activity for telecom			
G00110	Supply of 24 Fibre Composite armoured Op Supply of 24 Fibre Composite armoured Optical Fibre Cable drum (6 fibre G-655 & 18 fibre G-652).	5,500 M	120.00	
G00120	Supply of jointing closure 24 Fiber, 2 w Supply of jointing closure 24 Fiber, 2 way including all accessories (3M, Siemens, Raychem make only)	14 EA	3,500.00	
G00130	Supply of 40mm OD permanently lubricated Supply of 40mm OD permanently lubricated HDPE telecom duct as per technical specifications including manufacturing, factory testing, inspection, packaging, forwarding, transportation, insurance, receipt and storage at site.	5,500 M	95.00	
G00200	Telecommunication Site Work			
G00210	Laying of HDPE Telecom Duct: Laying of 4 Laying of HDPE Telecom Duct: Laying of 40mm HDPE Ducts in same pipeline trench direct buried or cased crossing through CS / HDPE conduit in all type of soil & terrain, excavated as required, padding, backfilling, etc. including supply of HDPE Duct accessories required 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 EA Km jointing of HDPE conduit, testing OD 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.	5,500 M	75.00	
G00220	Blowing of Optical Fibre Cable inside HD 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), through CS / HDPE conduits along the pipeline also at crossing cable, sealing using all materials required, including laying of warning mats, etc. as per direction of EIC	5,500 M	75.00	
G00221	Laying of OFC cable in same pipeline tre Laying of OFC cable in same pipeline trench	40 M	100.00	
G00230AHR	Supply and laying of GI Pipe (4") at cro Supply and laying of GI Pipe (4") at crossings for protection of OFC / HDPE duct	40 M	1,200.00	#Y
G00240	Splicing, Jointing of Optical Fiber Cabl Splicing, Jointing of Optical Fiber Cable (Including Supply and Installation of jointing pits including sand, etc. & joint markers)	14 EA	15,000.00	
G00250AHR	Supply of FTC with pig tails other acces	14 SET	60,000.00	#Y

Supply of FTC with pig tails other accessories for termination of OFC - 24 Fibre in the Telecom Room

G00260	Installation of FTC & Wire mesh, termina	14 SET	35,000.00	
	Installation of FTC & Wire mesh, termination of OFC on FTC / DDF inside telecom room, splicing with steel 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.			
G00270AHR	Supply, laying and termination of five p	10 M	600.00	#Y
	Supply, laying and termination of five pair armoured telephone cable 0.5 mm			
G00280	Supply, configuration, installation and	1 EA	50,000.00	
	Supply, configuration, installation and commissioning of CCTV DVR 4 channel video & audio, 1 SATA interface, installed in terminal control room complete with power supply unit for cameras, 1TB HDD and accessories inclusive of power/ Ethernet cabling, installation, testing and commissioning.			
G00290AHR	Supply and installation of 2.0 MP 1080P,	1 EA	25,000.00	#Y
	Supply and installation of 2.0 MP 1080P, 20M IR, 25 FPS, fixed bullet cameras for outdoor (outside CCR building) installation, IP-65, complete with wiring and accessories.			
G00300AHR	Supply of coaxial cable with power for C	5 M	3,000.00	#Y
	Supply of coaxial cable with power for CCTVs, PVC insulated, SWA			

Work Order Item 00001 Basic Item Value : INR 80,467,550.00
(RUPEES EIGHT CRORE FOUR LAC SIXTY-SEVEN THOUSAND FIVE HUNDRED FIFTY ONLY):

~~Total item value after taxes & duties : INR 80,467,550.00~~

~~Total Work Order value including duties & taxes: INR 80,467,550.00~~
~~(RUPEES EIGHT CRORE FOUR LAC SIXTY-SEVEN THOUSAND FIVE HUNDRED FIFTY ONLY)~~

Total Contract value (INR) : 94,951,709.00

However, the payment shall be released as per the actual quantity executed and as per the terms and conditions prevailing at sites against the purchase orders released during the validity of this contract.

Updation of GST Registration No., HSN code / SAC code in our SAP system

As you may be aware a comprehensive indirect tax reform by the name of Goods and Service Tax (GST) is proposed to be introduced in India w.e.f. 01-Apr-2017 and all Government agencies are working seamlessly to achieve the target date for its implementation. This is a fundamental and the biggest tax reform ever undertaken in the framework of indirect taxes and impacts not only the rates of tax but also various business processes and associated documentation.

GST on the supply of goods and services, applicable right from the manufacturer to the consumer, will replace the existing indirect taxes. An important aspect of transition into the new regime is the heavy emphasis on online matching of credits i.e. matching of supplier and receiver data, the Tax payment and filing of valid returns would be perquisites for availing Input Tax Credit (ITC), thereby making compliance with GST law essential for doing business. In case of non-matching of data there will be huge blockage of working capital at every end. This will require to include the GST Registration Numbers into Contract for material our system so that the information can be uploaded into the returns to be filed. Understanding of and compliance with GST rules and procedures is a prerequisite for all of us to avail full Input Tax Credit and avoid blockage of working capital.

We request you to kindly provide the GST Registration Numbers and other details in following format:

Vendor	Country(IN)	Region	GST Registration No	GST Classification

#GST Classification
Full GST Registered
Full GST PSU
GST Exempt
GST Compounding

In case you have multiple registration in different states, you may examine the above provision while informing your relevant GST registration Number.

Please also provide HSN Code for materials / SAC code for services (whichever is applicable) as per attached annexure. We solicit your cooperation in aforesaid matter for timely release of payments as per new GST law.

Service Details For SAC Code

S.No	PO S.No	Service Description	SAC Code
1	1	ARC LAYING FOR NORTHERN REGION	
2	2	Northern ARC tender	

ANNEXURE-2

INTEGRITY PACT

(To be executed on plain paper)

Between GAIL (India) Limited, a Government of India Public Sector, (here-in-after referred to as "Principal").

AND

Shakti Engineers (here-in-after referred to as "The Bidder/ Contractor").

(Principal and the Bidder / Contractor are here-in-after are referred to individually as "Party" or collectively as "Parties").

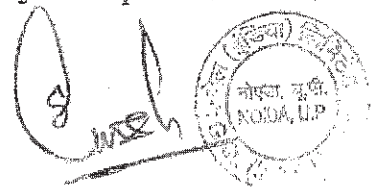
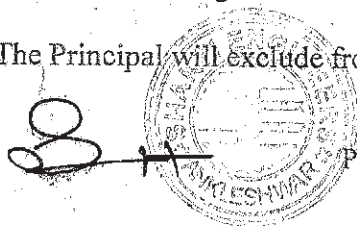
PREAMBLE

The Principal intends to award under laid down organizational procedures, contract/s for Construction of Steel pipelines. The Principal values full compliance with all relevant laws of land rules, regulations, and economic use of resources and of fairness /transparency in its relations with its Bidder (s) and/or Contractor (s).

In order to achieve these goals, the Principal will appoint Independent External Monitors (IEMs) who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1 – Commitments of the Principal

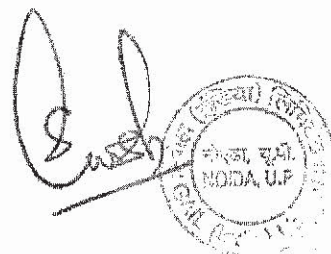
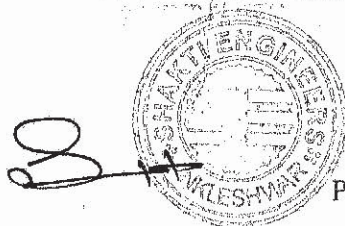
1. The Principal commits itself to take all measures necessary to prevent corruption and to observe the following Principles:-
 - i) No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or for a third person, any material or immaterial benefit which the person is not legally entitled to.
 - ii) The Principal will, during the tender process treat all Bidder(s) with equity and reasons. The Principal will in particular, before and during the tender process , provide to all Bidder (s) the same information and will not provide to any Bidder (s) confidential / additional information through which the Bidder (s) could obtain an advantage in relation to the tender process or the contract execution.
 - iii) The Principal will exclude from the process all known prejudiced persons.



2. If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal Code (IPC)/ Prevention of Corruption Act (PC Act), or if there be a substantive suspicion in this regard, the Principal will inform the Chief Vigilance Officers and in addition can initiate disciplinary actions.

Section 2 – Commitments of the Bidder (s)/Contractor (s)

1. The Bidder (s) / Contractor (s) commits themselves to take all measures necessary to prevent corruption. The Bidder (s)/ Contractor (s) commits themselves to observe the following principles during participation in the tender process and during the contract execution:
- i) The Bidder (s) / Contractor (s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material or other benefit which he / she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
 - ii) The Bidder (s) / Contractor (s) will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other action to restrict competitiveness or to introduce cartelisation in the bidding process.
 - iii) The Bidder (s) / Contractor (s) will not commit any offence under the relevant IPC/PC Act; further, the Bidder (s) / Contractor (s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
 - iv) The Bidder (s)/ Contractor (s) of foreign origin shall disclose the name and address of the Agents/ representatives in India, if any. Similarly, the Bidder (s)/ Contractor (s) of Indian Nationality shall furnish the name and address of the foreign principals, if any. Further, all the payments made to the Indian agent/ representative have to be in India Rupees only.
 - v) The Bidder (s) / Contractor (s) will, when presenting their bid, disclose any and all payments made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.



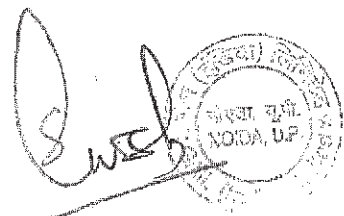
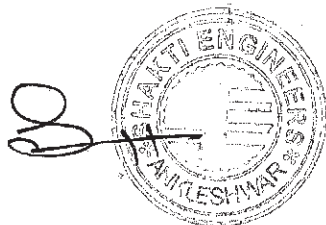
2. The Principal will enter into agreements with identical conditions as this one with all Bidders and Contractors.
3. The Principal will disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

**Section 7 – Criminal charges against violating Bidder (s) /
Contractor (s) / Sub-contractor (s)**

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the same to the Chief Vigilance Officer.

Section 8 –Independent External Monitor / Monitors

1. The Principal appoints competent and credible Independent External Monitor for this Pact after approval by Central Vigilance Commission. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
2. The Monitor is not subject to instructions by the representatives of the parties and performs his/her functions neutrally and independently. The Monitor would have access to all documents/records pertaining to the contract for which a complaint or issue is raised before them, as and when warranted. However, the documents/records/information having National Security implications and those documents which have been classified as Secret/Top Secret are not to be disclosed. It will be obligatory for him/ her to treat the information and documents of the Bidders/ Contractors as confidential. He/she reports to the C&MD, GAIL.
3. The Bidder (s)/ Contractor (s) accepts that the Monitor has the right to access without restriction to all Project documentation of the Principal including that provided by the Contractor. The Contractor will also grant the Monitor, upon his/her request and demonstration of a valid interest, unrestricted and unconditional access to their project documentation. The same is applicable to Sub-contractors.
5. The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.

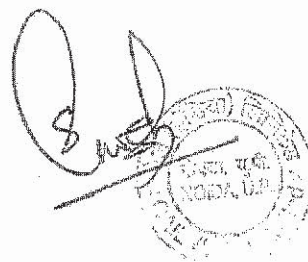


6. As soon as the Monitor notices, or believes to notice, a violation of this agreement, he/she will so inform the Management of the Principal and request the Management to discontinue or to take corrective action, or to take other relevant action. The monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.
7. The Monitor will submit a written report to the C&MD, GAIL within 30 days from the date of reference or intimation to him by the 'Principal' and, should the occasion arise, submit proposals for correcting problematic situations.
8. If the Monitor has reported to the C&MD, GAIL, a substantiated suspicion of an offence under relevant IPC/PC Act, and the C&MD, GAIL has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Chief Vigilance Officer. Only in case of very serious issue having a specific, verifiable Vigilance angle, the matter should be reported directly to the Central Vigilance Commission.
9. The word 'Monitor' would include both singular and plural.
10. In case of any complaints referred under IP Program, the role of IEMs is advisory and would not be legally binding and it is restricted to resolving the issues raised by an intending bidder regarding any aspect of the tender which allegedly restricts competition or bias towards some bidder.
11. After award of contract, the IEMs shall look into any issue relating to execution of contract, if specifically raised before them. As an illustrative example, if a contractor who has been awarded the contract, during the execution of contract, raises issue of delayed payment etc. before the IEMs, the same shall be examined by the panel of IEMs.

Section 9 – Pact Duration

This Pact begins when both parties have legally signed it. It expires for the Contractor 12 months after the last payment under the respective contract, and for all other Bidders 6 months after the contract has been awarded. Any violation to the same would entail disqualification of the bidders and exclusion from future business dealing.

If any claim is made / lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged/determined by the C&MD, GAIL.



Section 10 – Miscellaneous provisions

1. This agreement is subject to Indian Law. Place of performance and exclusive jurisdiction is the Registered Office of the Principal, i.e. New Delhi.
2. Changes and supplements as well as termination notices, if any, need to be made in writing. Side agreements have not been made.
3. If the Contractor / Bidder is a Joint Venture or a partnership concern or a consortium, this agreement must be signed by all partners or consortium members.
4. Should one or several of the provisions of this agreement turn out to be invalid, the remainder of this agreement shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions in such a case.
5. Issues like warranty / guarantee, etc. shall be outside the purview of IEMs.
6. In the event of any contradiction between the Integrity Pact and its Annexure, the Clause in Integrity Pact will prevail.

(For & on Behalf of Principal)

(Office Seal)



(For & on Behalf of Bidder/Contractor)

(Office Seal)

Kumlesh. Shah.

Place _____

Date _____

Witness 1:
(Name & Address)

M. K. Patel
.....
.....
.....

Witness 2:
(Name & Address)

V. A. Patel
.....
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**KALADHAR
NARAYAN**

Digitally signed by KALADHAR NARAYAN
DN: c=IN, o=GAIL (India) Limited, ou=C&P,
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088959f9118338de8010172e26ff29c409d
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Date: 2022.02.25 19:24:33 +05'30'

Page 12 of 12

Signature Not Verified

Digitally signed by Malepurath Girish
Kumar
Date: 2022.03.09 17:42:09 IST
Location: eProcurement System for
Central PSUs