



Lyons Engineering Pvt. Ltd.

An ISO 9001:2015 Certified Co.

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Reg. No.U74140DL2012PTC237859

Ref: LEPL/GAIL/2022/40/72

20.4.2022

M/s GAIL (India) Limited,
Jubilee Tower,
B- 34 & 35, Sector - 01
Noida, UP (India)

Kind Attention: Mr. Jagannath (DGM-PE)

Subject: SUBMISSION OF AWARD RECOMMENDATION – ARC TENDER FOR EASTERN REGION

Dear Sir,

Please find enclosed herewith Award Recommendation.

Lyons Engineering Pvt. Ltd.

M. Girish Kumar
[GM – C&P]



Certificate Registration No. **99 100 20576**
Date of Initial certification: **2019-12-20**



**AWARD RECOMMENDATION
ARC LAYING TENDER FOR EASTERN REGION**

AWARD RECOMMENDATION

0	19.04.2022	Award Recommendation	AR	GK	SB
Rev.	Date	Subject of revision	Prepared	Checked	Approved



**AWARD RECOMMENDATION
ARC LAYING TENDER FOR EASTERN REGION**

CONTENTS

SR NO.	DESCRIPTION
1	AWARD RECOMMENDATION
2	ANNEXURE – I : EVALUATION OF PRICE BIDS AND COMPARISON OF PRICE BID
3	ANNEXURE – I: COMPARISON OF L1 PRICE BID WITH COST ESTIMATE
4	ANNEXURE– II: ORIGINAL PRICE BID OF BIDDER – THROUGH E MAIL
5	ANNEXURE –III : CHECKLIST FOR AWARD RECOMMENDATION
6	ANNEXURE IV: INTIMATION FROM GAIL FOR PRICE BID OPENING
9	ANNEXURE V – MINUTES OF MEETING FOR PBO



**AWARD RECOMMENDATION
ARC LAYING TENDER FOR EASTERN REGION**

A. SUMMARY SHEET

1.	Brief Description of Project	ARC LAYING TENDER EASTERN REGION
2.	Bid Document / Tender No. & date	E-TENDER REF : Tender ID: 040-LEPL-GAIL-019 E-TENDER REF:2022_GAIL_107748_1 dtd. 28.2.2022
3.	Scope of Work	LAYING OF PIPELINE AND ASSOCIATED WORKS FOR CGD CONNECTIVITIES IN EASTERN REGION
4.	Mode of Tendering	LIMITED Domestic Competitive Bidding
5.	Price Bid opening approval from GAIL	Vide mail dtd. 18.04.2022
6.	Price Bid opening scheduled time and date	At 15 Hrs on 18.4.2022 through Video Conference
7.	Actual Price Bid opening time and date	At 15.00 Hrs on 18.4.2022 through Video Conference
8.	L1 Price Vs Cost Estimate	Placed at ANNEXURE -I
9.	Original Price Bid of All Bidders	Placed at ANNEXURE – II- in Excel through E-Mail
10.	List of Bidders whose PBO was recommended by Lyons	1. MAS Constructions 2. Sakthi Engineers
11.	List of Bidders Whose PBO has been Approved by GAIL	1. MAS Constructions 2. Sakthi Engineers
	List of Bidders Whose Price Bid was Opened	1. MAS Constructions 2. Sakthi Engineers
	Status of Bidders	Both the Bidders have submitted their Price Bid
	Validity of bid (3 months) i.e. till 23.6.2022	Complied by the bidders
	Cost Estimate	As per Annexure I
	Completion Period	Contract Period : The proposed contract rate shall be for a period of two (02) years from the date of issue of Fax of Acceptance (FOA) and the same may be extended for Six (06) months thereafter at the same rates, terms and conditions. Delivery period : Maximum 24 weeks from the date of issuance of LOI.



**AWARD RECOMMENDATION
ARC LAYING TENDER FOR EASTERN REGION**

B. APPROVAL FOR PRICE BID OPENING

Based on the techno-commercial evaluation of the bids, PBO recommendation was forwarded to GAIL vide Email Dated 31.3.2022 for opening the price bid of above mentioned techno-commercially qualified bidders. GAIL's approval for Price Bid opening was received by email dtd. 18.4.2022 for opening of price bids. Accordingly, intimation was sent to both the bidders through email dated 18.4.2022 for attending the price bid opening, scheduled at 15 Hrs on 18.4.2022 through Video Conference. The price bid was opened on schedule date & time.

C. PRICE EVALUATION OF BIDS

Price bid evaluation has been done as per tender conditions.

The evaluation has been done based on clause no. 32 of ITB Section-II of tender document.

D. EVALUATED PRICE OF BIDDERS

Sl. No.	BIDDER	EVALUATED PRICE (INCLUSIVE OF ALL TAXES AND DUTIES AND GST)
1	MAS CONSTRUCTIONS	16,57,05,748.00
	STATUS	L2
2	SHAKTI ENGINEERS	10,57,03,898.50
	STATUS	L1

E. COMPARISON OF L1 PRICE WITH COST ESTIMATE

Sl. No.	Description	L1 BIDDER PRICE (INCLUSIVE OF ALL TAXES AND DUTIES AND GST)	COST ESTIMATE (INCLUSIVE OF ALL TAXES AND DUTIES AND GST)	VARIANCE	L1 Bidder
1.	Comparison of L1 Price with Cost Estimate	10,57,03,898.50	11,23,88,600.64	(-) 5.95%	SHAKTI ENGINEERS

The total approved Estimate for this Project is Rs. 11,24,88,600.84. For item No. B 006050 an amount of Rs. 1,00,000.00 is considered in Cost Estimate for which bidder was asked not to quote since the expenses are for Transportation of material for nominal quantities from despatch point to site on "TO PAY BASIS" and legal RTO charges due to the ODC consignments.



**AWARD RECOMMENDATION
ARC LAYING TENDER FOR EASTERN REGION**

L1 Bidder has quoted 5.95% lower than the Cost Estimate. Lyons Estimate is based on the past awarded rates of similar Tenders with same scope of work and hence the estimate is correct. Bidder have quoted very competitive rates to secure the order.

F. INSUFFICIENT COMPETITION

Since only 2 qualified Bidders are there for this Tender insufficient competition is there. However since the price quoted by L1 bidder is very competitive and less than 5.95% of the cost estimate, order can be placed on the L1 Bidder thus complying with Clause 4.16 of C&P Procedure.

G. PUBLIC PROCUREMENT POLICY

Not applicable in this Tender.

H. RECOMMENDATION

Based on the above evaluation and tender clause No. 32 of ITB we hereby conclude as follows;

Order may be placed on L1 Bidder M/s Shakti Engineers for an amount of Rs. 8,95,79,575.00

without GST and Rs. 10,57,03,898.50 with GST@ 18%..

For Lyons Engineering Pvt.Ltd.

M GIRISH KUMAR
General Manager – C&P

Name of Work:Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region (Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region viz. Bihar, Jharkhand, Odisha, West Bengal and North East Area) on ARC Basis

SCHEDULE OF WORK / ITEM(S)

[illegible]

Name of Work: Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region (Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region viz. Bihar, Jharkhand, Odisha, West Bengal and North East Area) on ARC Basis
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SCHEDULE OF WORK / ITEM(S)		DATE	STATUS
1	1.1	1.1	1.1
2	2.1	2.1	2.1
3	3.1	3.1	3.1
4	4.1	4.1	4.1
5	5.1	5.1	5.1
6	6.1	6.1	6.1
7	7.1	7.1	7.1
8	8.1	8.1	8.1
9	9.1	9.1	9.1
10	10.1	10.1	10.1
11	11.1	11.1	11.1
12	12.1	12.1	12.1
13	13.1	13.1	13.1
14	14.1	14.1	14.1
15	15.1	15.1	15.1
16	16.1	16.1	16.1
17	17.1	17.1	17.1
18	18.1	18.1	18.1
19	19.1	19.1	19.1
20	20.1	20.1	20.1
21	21.1	21.1	21.1
22	22.1	22.1	22.1
23	23.1	23.1	23.1
24	24.1	24.1	24.1
25	25.1	25.1	25.1
26	26.1	26.1	26.1
27	27.1	27.1	27.1
28	28.1	28.1	28.1
29	29.1	29.1	29.1
30	30.1	30.1	30.1
31	31.1	31.1	31.1
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33	33.1	33.1	33.1
34	34.1	34.1	34.1
35	35.1	35.1	35.1
36	36.1	36.1	36.1
37	37.1	37.1	37.1
38	38.1	38.1	38.1
39	39.1	39.1	39.1
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41	41.1	41.1	41.1
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43	43.1	43.1	43.1
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51	51.1	51.1	51.1
52	52.1	52.1	52.1
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62	62.1	62.1	62.1
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65	65.1	65.1	65.1
66	66.1	66.1	66.1
67	67.1	67.1	67.1
68	68.1	68.1	68.1
69	69.1	69.1	69.1
70	70.1	70.1	70.1
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74	74.1	74.1	74.1
75	75.1	75.1	75.1
76	76.1	76.1	76.1
77	77.1	77.1	77.1
78	78.1	78.1	78.1
79	79.1	79.1	79.1
80	80.1	80.1	80.1
81	81.1	81.1	81.1
82	82.1	82.1	82.1
83	83.1	83.1	83.1
84	84.1	84.1	84.1
85	85.1	85.1	85.1
86	86.1	86.1	86.1
87	87.1	87.1	87.1
88	88.1	88.1	88.1
89	89.1	89.1	89.1
90	90.1	90.1	90.1
91	91.1	91.1	

[illegible]

Name of Work:Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region (Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region viz. Bihar, Jharkhand, Odisha, West Bengal and North East Area) on ARC Basis	
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SCHEDULE OF WORK / ITEM(S)

[illegible]

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SCHEDULE OF WORK / ITEM(S)

[illegible]

Government eProcurement System Created By: MALEPPURATH GIRISH KUMAR Created Date/Time: 18-Apr-2022 03:26 PM Tender Title: Construction of Steel Pipelines and Associated facilities for CGD Connectivities for Eastern Region (Bihar, Jharkhand, Odisha, West Bengal, North-East Area) on ARC Basis Tender ID: 2022_GAIL_107748_1												
Tender Inviting Authority: GAIL (India) Ltd.												
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Contract No: 040-LYONS-GAIL-019												
SCHEDULE OF WORK / ITEM(S)												
Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate	MAS CONSTRUCTIONS		SHAKTI ENGINEERS		COST ESTIMATE		Variance	AHR
					Rate	Amount	Rate	Amount	Rate	Amount		
37.00	"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. normal 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 not limited to, following works in accordance with the specifications and instructions of EIC, and as per all provisions of Contract Document."											
38.00	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 / NOC for crossings as well as utility crossings (if any) encountered during crossings prior to start the execution of work.											
39.00	Drilling to required depth including maintenance of drill hole in all types of strata (in all types of soils i.e. normal soil/soft rock/murram etc. except hard rock), 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.											
40.00	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 no. A00100 above) required as per specification, approved drawings, calculations, methods and to the satisfaction of EIC and / or as directed by concerned authority.											
41.00	Installation of 4" NB 3LPE Coated Carbon Steel Pipeline by HDD	100.00	Meter		20000.00	20,00,000.00	22000.00	22,00,000.00	16465.24	16,46,524.00	33.61%	

Name of Work:Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region (Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region viz. Bihar, Jharkhand, Odisha, West Bengal and North East Area) on ARC Basis	
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Contract No: 040-LYONS-GAIL-019												
SCHEDULE OF WORK / ITEM(S)												
Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate	MAS CONSTRUCTIONS		SHAKTI ENGINEERS		COST ESTIMATE		Variance	AHR
					Rate	Amount	Rate	Amount	Rate	Amount		
48.00	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.											
49.00	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 no. A00100 above) required as per specification, approved drawings, calculations, methods and to the satisfaction of EIC and / or as directed by concerned authority.											
50.00	Installation of 4" NB 3LPE Coated Carbon Steel Pipeline by HDD	10.00	Meter		45000.00	4,50,000.00	25000.00	2,50,000.00	29426.73	2,94,267.30	-15.04%	
51.00	Installation of 8" NB 3LPE Coated Carbon Steel Pipeline by HDD	10.00	Meter		45000.00	4,50,000.00	25000.00	2,50,000.00	35312.08	3,53,120.80	-29.20%	
52.00	Installation of 12" NB 3LPE Coated Carbon Steel Pipeline by HDD	10.00	Meter		60000.00	6,00,000.00	25000.00	2,50,000.00	42000	4,20,000.00	-40.48%	
53.00	Note: (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. No any separate payment shall be made under other clauses mentioned elsewhere.											
54.00	CROSSING (CASED / UNCASED) EXCEPT HARD ROCK											
55.00	CROSSING (CASED / UNCASED) EXCEPT HARD ROCK											
56.00	Preparation of required length of carrier pipeline welded string including all other works as mentioned in Item No. A00100 above and specification / drawings. Insertion of carrier pipeline welded string including all other works as mentioned in Item No. 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 No. A00100 above) and as per specification, approved procedure, drawing, etc. and instructions of EIC and provision of contract document, getting NOC from all concerned authority of the facilities crossed.											
57.00	By Jacking / Boring Method with 8" Steel casing pipe along with 4" carrier pipe.	5.00	Mtr.		30000.00	1,50,000.00	5000.00	25,000.00	9600	48,000.00	-47.92%	
58.00	By Jacking / Boring Method with 14" Steel casing pipe along with 8" carrier pipe.	5.00	Mtr.		30000.00	1,50,000.00	6000.00	30,000.00	12000	60,000.00	-50.00%	

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Contract No: 040-LYONS-GAIL-019												
SCHEDULE OF WORK / ITEM(S)												
Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate	MAS CONSTRUCTIONS		SHAKTI ENGINEERS		COST ESTIMATE		Variance	AHR
					Rate	Amount	Rate	Amount	Rate	Amount		
59.00	By Jacking / Boring Method with 18" Steel casing pipe along with 12" carrier pipe.	5.00	Mtr.		30000.00	1,50,000.00	7000.00	35,000.00	14400	72,000.00	-51.39%	
60.00	Note: (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. No any separate payment shall be made under other clauses mentioned elsewhere.											
61.00	Supply of steel casing pipe											
62.00	8" NB 6.4 mm W.T. API 5L Gr.B / IS 3589 / Equivalent	5.00	Mtr.		16000.00	80,000.00	8000.00	40,000.00	3239.88	16,199.40	146.92%	AHR
63.00	14" NB 6.4 mm W.T. API 5L Gr.B / IS 3589 / Equivalent	2.00	Mtr.		16000.00	32,000.00	9000.00	18,000.00	4319.84	8,639.68	108.34%	AHR
64.00	PERMANENT MARKERS											
65.00	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.											
66.00	Pipeline Warning Signs	70.00	No.		10000.00	7,00,000.00	10000.00	7,00,000.00	8187.34	5,73,113.80	22.14%	
67.00	Right-of-way Boundary Markers	70.00	No.		2500.00	1,75,000.00	2500.00	1,75,000.00	2160.72	1,51,250.40	15.70%	
68.00	Kilometer Posts	15.00	No.		10000.00	1,50,000.00	10000.00	1,50,000.00	11770.69	1,76,560.35	-15.04%	
69.00	Direction Markers	50.00	No.		8500.00	4,25,000.00	8000.00	4,00,000.00	9906.16	4,95,308.00	-19.24%	
70.00	Pipeline laying liaisoning with statutory authorities / Permission Issuing Authorities											
71.00	Liaisoning with statutory Authority /Permission issuing Authorities for obtaining routine work permit for execution of work and NOC 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. (Note :- Payment shall be based on the actual length of pipeline laid).	50.00	Mtr.		1500.00	75,000.00	1000.00	50,000.00	175.44	8,772.00	470.00%	AHR

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SCHEDULE OF WORK / ITEM(S)

[illegible]

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Tender Title: Construction of Steel Pipelines and Associated facilities for CGD Connectivities for Eastern region (Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region viz. Bihar, Jharkhand, Odisha, West Bengal, North-East Area) on ARC Basis
Tender ID: 2022_GAIL_107748_1

Tender Inviting Authority: GAIL (India) Ltd.

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Contract No: 040-LYONS-GAIL-019

SCHEDULE OF WORK / ITEM(S)

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate	MAS CONSTRUCTIONS		SHAKTI ENGINEERS		COST ESTIMATE		Variance	AHR
					Rate	Amount	Rate	Amount	Rate	Amount		
88.00	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 not 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.											
89.00	Supply of Full Encirclement type Split Tee											
90.00	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 #	1.00	Nos.		6000000.00	60,00,000.00	2500000.00	25,00,000.00	2880000	28,80,000.00	-13.19%	
91.00	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 #	1.00	Nos.		5500000.00	55,00,000.00	2200000.00	22,00,000.00	2400000	24,00,000.00	-8.33%	
92.00	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 #	1.00	Nos.		4000000.00	40,00,000.00	1500000.00	15,00,000.00	2160000	21,60,000.00	-30.56%	
93.00	Installation of Full Encirclement type Split Tee											
94.00	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 #	1.00	Nos.		1200000.00	12,00,000.00	500000.00	5,00,000.00	1200000	12,00,000.00	-58.33%	
95.00	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 #	1.00	Nos.		1200000.00	12,00,000.00	400000.00	4,00,000.00	1020000	10,20,000.00	-60.78%	
96.00	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 #	1.00	Nos.		1200000.00	12,00,000.00	400000.00	4,00,000.00	960000	9,60,000.00	-58.33%	

Name of Work:Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region (Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region viz. Bihar, Jharkhand, Odisha, West Bengal and North East Area) on ARC Basis	
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SCHEDULE OF WORK / ITEM(S)

[illegible]

Tender Inviting Authority: GAIL (India) Ltd.

Name of Work: Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region (Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region viz. Bihar, Jharkhand, Odisha, West Bengal and North East Area) on ARC Basis

Contract No: 040-LYONS-GAIL-019

SCHEDULE OF WORK / ITEM(S)

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate	MAS CONSTRUCTIONS		SHAKTI ENGINEERS		COST ESTIMATE		Variance	AHR
					Rate	Amount	Rate	Amount	Rate	Amount		
105.00	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, nozzles, strainers, tie-in with existing piping / facilities, etc. tapping for inline instruments like pressure gauges, thermowells, sample connection, etc.											
106.00	Design and Residual Engineering											
107.00	Preparation of bill of material(BOM)											
108.00	Preparation of Construction, Fabrication, GAD, isometric and As-built drawings											
109.00	Carrying out all Non-destructive testing as required except Radiography.											
110.00	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.											
111.00	Painting of entire system (including aboveground all pipes fittings, flanges & accessories) suitable for Normal 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.											
112.00	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.											
113.00	Precommissioning & making operational all piping system and equipments.											
114.00	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.											
115.00	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.											
116.00	12" NB Piping different grades & thickness	20.00	Mtr.		10000.00	2,00,000.00	8000.00	1,60,000.00	8773.83	1,75,476.60	-8.82%	
117.00	8" NB Piping different grades & thickness	20.00	Mtr.		8000.00	1,60,000.00	8000.00	1,60,000.00	7732.69	1,54,653.80	3.46%	
118.00	6" NB Piping different grades & thickness	10.00	Mtr.		6000.00	60,000.00	6000.00	60,000.00	6882.87	68,828.70	-12.83%	

Name of Work: Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region (Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region viz. Bihar, Jharkhand, Odisha, West Bengal and North East Area) on ARC Basis

SCHEDULE OF WORK / ITEM(S)

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Name of Work:Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region (Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region viz. Bihar, Jharkhand, Odisha, West Bengal and North East Area) on ARC Basis	
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SCHEDULE OF WORK / ITEM(S)

SCHEDULE OF WORK / ITEM(S)

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Name of Work: Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region (Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region viz. Bihar, Jharkhand, Odisha, West Bengal and North East Area) on ARC Basis

SCHEDULE OF WORK / ITEM(S)

[illegible]

Name of Work:Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region (Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region viz. Bihar, Jharkhand, Odisha, West Bengal and North East Area) on ARC Basis	
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SCHEDULE OF WORK / ITEM(S)

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Name of Work: Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region (Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region viz. Bihar, Jharkhand, Odisha, West Bengal and North East Area) on ARC Basis
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SCHEDULE OF WORK / ITEM(S)

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Name of Work: Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region (Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region viz. Bihar, Jharkhand, Odisha, West Bengal and North East Area) on ARC Basis

SCHEDULE OF WORK / ITEM(S)	
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Government eProcurement System Created By: MALEPPURATH GIRISH KUMAR Created Date/Time: 18-Apr-2022 03:26 PM Tender Title: Construction of Steel Pipelines and Associated facilities for CGD Connectivities for Eastern Region (Bihar, Jharkhand, Odisha, West Bengal, North-East Area) on ARC Basis Tender ID: 2022_GAIL_107748_1												
Tender Inviting Authority: GAIL (India) Ltd.												
Name of Work:Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region (Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region viz. Bihar, Jharkhand, Odisha, West Bengal and North East Area) on ARC Basis												
Contract No: 040-LYONS-GAIL-019												
SCHEDULE OF WORK / ITEM(S)												
Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate	MAS CONSTRUCTIONS		SHAKTI ENGINEERS		COST ESTIMATE		Variance	AHR
					Rate	Amount	Rate	Amount	Rate	Amount		
242.00	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 no. of trees etc as specified, plotting and developing topographical contour maps, showing true north including establishing survey reference stations, key plan etc. including all equipment's, instruments, personnel's, clearing of bushes as per requirement for intervisibility to carry out survey work etc. , complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of drawings/map and supply of electronic files. Note: Survey work shall be carried out by survey agency approved by Contractor and shall be submitted to PMC/EIC for review.	200.00	M2		300.00	60,000.00	105.00	21,000.00	110.12	22,024.00	-4.65%	
243.00	GEO TECHNICAL INVESTIGATION											
244.00	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 each borehole location . complete work in all respects as per drawings, specifications and directions of Engineer-in-Charge including submitting hard copies of Reports & recommendations and supply of electronic files.	1.00	each		100000.00	1,00,000.00	65000.00	65,000.00	70565.3	70,565.30	-7.89%	
245.00	FENCING & GATE											
246.00	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).	300.00	RM		300.00	90,000.00	600.00	1,80,000.00	243.87	73,161.00	146.03%	AHR

Name of Work:Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region (Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region viz. Bihar, Jharkhand, Odisha, West Bengal and North East Area) on ARC Basis

SCHEDULE OF WORK / ITEM(S)

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SCHEDULE OF WORK / ITEM(S)

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SCHEDULE OF WORK / ITEM(S)

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Tender Title: Construction of Steel Pipelines and Associated facilities for CGD Connectivities for Eastern Region (Bihar, Jharkhand, Odisha, West Bengal, North-East Area) on ARC Basis
Tender ID: 2022_GAIL_107748_1

Tender Inviting Authority: GAIL (India) Ltd.

Name of Work: Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region (Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region viz. Bihar, Jharkhand, Odisha, West Bengal and North East Area) on ARC Basis

Contract No: 040-LYONS-GAIL-019

SCHEDULE OF WORK / ITEM(S)

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate	MAS CONSTRUCTIONS		SHAKTI ENGINEERS		COST ESTIMATE		Variance	AHR
					Rate	Amount	Rate	Amount	Rate	Amount		
262.00	Supplying and filling approved SAND of specified quality under floors, in foundations, plinths, tank foundations etc. for all depths and heights including cost of sand, royalties, transportation to site for all leads and lifts, including loading, unloading, spreading in layers of loose thickness not exceeding 150 mm, watering, ramming, compacting with mechanical compactors and/or other equipment to the specified levels to achieve 85% relative density as per IS:2720 Part XIV, including preparation of subgrade to the required slope, providing testing apparatus and testing the degree of consolidation all complete as per drawings, specifications and direction of Engineer-in-charge. The rates shall be inclusive of the cost of all labour, material, equipments etc. all complete .	100.00	M3		4000.00	4,00,000.00	2800.00	2,80,000.00	3242.19	3,24,219.00	-13.64%	
263.00	DEMOLITION OF R.C.C./BRICKS/STONE MASONRY/STEEL WORK											
264.00	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. Note: 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.	2.00	M3		2500.00	5,000.00	2500.00	5,000.00	4052.06	8,104.12	-38.30%	
265.00	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. Note: 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.	50.00	Kg		200.00	10,000.00	35.00	1,750.00	188.99	9,449.50	-81.48%	

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Name of Work: Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region (Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region viz. Bihar, Jharkhand, Odisha, West Bengal and North East Area) on ARC Basis

Contract No: 040-LYONS-GAIL-019

SCHEDULE OF WORK / ITEM(S)

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate	MAS CONSTRUCTIONS		SHAKTI ENGINEERS		COST ESTIMATE		Variance	AHR
					Rate	Amount	Rate	Amount	Rate	Amount		
266.00	ERC/IRC											
267.00	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.	10.00	M		2000.00	20,000.00	4500.00	45,000.00	5645.22	56,452.20	-20.29%	
268.00	EARTH WORK IN FOUNDATION											
269.00	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.	300.00	M3		800.00	2,40,000.00	500.00	1,50,000.00	449.7	1,34,910.00	11.19%	
270.00	For depth beyond 1.5m and upto & inclusive of 3.0m.	50.00	M3		1000.00	50,000.00	600.00	30,000.00	694.55	34,727.50	-13.61%	
271.00	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 not exceeding 15 Cms. watering, rolling and ramming by manual methods/ mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	200.00	M3		500.00	1,00,000.00	200.00	40,000.00	308.26	61,652.00	-35.12%	

Tender Title: Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region (Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region viz. Bihar, Jharkhand, Odisha, West Bengal, North-East Area) on ARC Basis
Tender ID: 2022_GAIL_107748_1

Tender Inviting Authority: GAIL (India) Ltd.

Name of Work: Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region (Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region viz. Bihar, Jharkhand, Odisha, West Bengal and North East Area) on ARC Basis

Contract No: 040-LYONS-GAIL-019

SCHEDULE OF WORK / ITEM(S)

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate	MAS CONSTRUCTIONS		SHAKTI ENGINEERS		COST ESTIMATE		Variance	AHR
					Rate	Amount	Rate	Amount	Rate	Amount		
272.00	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 not 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.	50.00	M3		2500.00	1,25,000.00	1200.00	60,000.00	1513.9	75,695.00	-20.73%	
273.00	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.	50.00	M3		2500.00	1,25,000.00	375.00	18,750.00	444.6	22,230.00	-15.65%	
274.00	PLAIN & REINFORCED CEMENT CONCRETE:											
275.00	Providing and laying PLAIN CEMENT CONCRETE for all depths below and upto plinth level in foundations, drains, fillings, non-suspended floors, pavements & ramps or any other works etc. including shuttering, tamping, ramming, vibrating, curing, 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 nominal mix 1:4:8 by volume (1 Cement: 4 Coarse Sand: 8 Crushed Stone Aggregates/Gravels with 40mm and down size graded crushed stone aggregates.	40.00	M3		8500.00	3,40,000.00	8000.00	3,20,000.00	8748.25	3,49,930.00	-8.55%	
276.00	Concrete of nominal mix of 1:5:10 by volume (1 Cement :5 Coarse Sand : 10 Crushed Stone Aggregates/Gravels).	2.00	M3		8000.00	16,000.00	7000.00	14,000.00	10299.36	20,598.72	-32.03%	

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SCHEDULE OF WORK / ITEM(S)

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Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate	MAS CONSTRUCTIONS		SHAKTI ENGINEERS		COST ESTIMATE		Variance	AHR
					Rate	Amount	Rate	Amount	Rate	Amount		
277.00	Providing and laying PLAIN CEMENT CONCRETE for all depths below and upto plinth level in foundations,drains, fillings, non-suspended floors, pavements & ramps or any other works etc. including shuttering, tamping, ramming, vibrating, curing, etc. all as specified in any shape, position, thickness and finishing the top surface rough or smooth as specified and directed all complete for concrete grade M20 with 20mm and down size graded crushed stone aggregates/Gravels.	1.00	M3		9500.00	9,500.00	8500.00	8,500.00	9087.96	9,087.96		
											-6.47%	
278.00	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.	130.00	M3		10500.00	13,65,000.00	11000.00	14,30,000.00	11579.14	15,05,288.20		
											-5.00%	
279.00	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, canopies, 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.	20.00	M3		12000.00	2,40,000.00	12000.00	2,40,000.00	10584.79	2,11,695.80		
											13.37%	

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SCHEDULE OF WORK / ITEM(S)

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Government eProcurement System Created By: MALEPPURATH GIRISH KUMAR Created Date/Time: 18-Apr-2022 03:26 PM Tender Title: Construction of Steel Pipelines and Associated facilities for CGD Connectivities for Eastern Region (Bihar, Jharkhand, Odisha, West Bengal, North-East Area) on ARC Basis Tender ID: 2022_GAIL_107748_1												
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Contract No: 040-LYONS-GAIL-019												
SCHEDULE OF WORK / ITEM(S)												
Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate	MAS CONSTRUCTIONS		SHAKTI ENGINEERS		COST ESTIMATE		Variance	AHR
					Rate	Amount	Rate	Amount	Rate	Amount		
288.00	Supplying, transporting, storing, fabricating in position and testing/examining bolted and/or welded STRUCTURAL STEEL WORKS at all levels and locations including all builtup 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, monorails, platforms, staircases (excluding chequered plates and gratings), ladders, stoppers, brackets, side runners, sagrods, supports for equipment and technological 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 Nonshrink Grout as specified, including preparation and submission of detailed fabrication drawings and applying primer after fabrication as per specification (for normal corrosive environment), etc. all complete	1.00	MT		150000.00	1,50,000.00	135000.00	1,35,000.00	128658.18	1,28,658.18	4.93%	
289.00	MISCELLANEOUS STEEL WORKS											
290.00	Supplying, fabricating, fixing and keeping in position at all levels and locations THREADED ANCHOR BOLTS of all diameters and nomenclature including nuts, washers, anchor plates, pipe sleeves etc. in foundations, columns, pedestals, slabs, beams, walls etc. or any other place as directed including handling & transporting, straightening if required, turning from relevant size M.S. rounds to required diameter, threading, welding, providing necessary templates and 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.	1.00	MT		150000.00	1,50,000.00	205000.00	2,05,000.00	231584.73	2,31,584.73	-11.48%	

Name of Work: Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region (Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region viz. Bihar, Jharkhand, Odisha, West Bengal and North East Area) on ARC Basis

SCHEDULE OF WORK / ITEM(S)

[illegible]

Name of Work: Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region (Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region viz. Bihar, Jharkhand, Odisha, West Bengal and North East Area) on ARC Basis

SCHEDULE OF WORK / ITEM(S)

[illegible]

Government eProcurement System Created By: MALEPPURATH GIRISH KUMAR Created Date/Time: 18-Apr-2022 03:26 PM Tender Title: Construction of Steel Pipelines and Associated facilities for CGD Connectivities for Eastern Region (Bihar, Jharkhand, Odisha, West Bengal, North-East Area) on ARC Basis Tender ID: 2022_GAIL_107748_1												
Tender Inviting Authority: GAIL (India) Ltd.												
Name of Work:Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region (Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region viz. Bihar, Jharkhand, Odisha, West Bengal and North East Area) on ARC Basis												
Contract No: 040-LYONS-GAIL-019												
SCHEDULE OF WORK / ITEM(S)												
Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate	MAS CONSTRUCTIONS		SHAKTI ENGINEERS		COST ESTIMATE		Variance	AHR
					Rate	Amount	Rate	Amount	Rate	Amount		
305.00	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.											
306.00	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.	6.00	KM		30000.00	1,80,000.00	65000.00	3,90,000.00	70177.19	4,21,063.14	-7.38%	
307.00	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.											
308.00	35 mm2	50.00	Mtr.		450.00	22,500.00	640.00	32,000.00	648.7	32,435.00	-1.34%	
309.00	25 mm2	100.00	Mtr.		400.00	40,000.00	575.00	57,500.00	584.32	58,432.00	-1.60%	
310.00	10 mm2	200.00	Mtr.		350.00	70,000.00	480.00	96,000.00	467.26	93,452.00	2.73%	
311.00	6 mm2	200.00	Mtr.		300.00	60,000.00	480.00	96,000.00	467.26	93,452.00	2.73%	
312.00	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.											
313.00	6 mm2 Cables	50.00	No.		3000.00	1,50,000.00	1100.00	55,000.00	1169.62	58,481.00	-5.95%	
314.00	10 mm2 Cables	50.00	No.		3000.00	1,50,000.00	1200.00	60,000.00	1169.62	58,481.00	2.60%	
315.00	25 mm2 Cables	20.00	No.		3000.00	60,000.00	2500.00	50,000.00	2339.24	46,784.80	6.87%	
316.00	35 mm2 Cables	5.00	No.		3000.00	15,000.00	3400.00	17,000.00	3414.24	17,071.20	-0.42%	

Tender Title: Construction of Steel Pipelines and Associated facilities for CGD Connectivities for Eastern Region (Bihar, Jharkhand, Odisha, West Bengal, North-East Area) on ARC Basis
Tender ID: 2022_GAIL_107748_1

Name of Work:Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region (Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region viz. Bihar, Jharkhand, Odisha, West Bengal and North East Area) on ARC Basis

SCHEDULE OF WORK / ITEM(S)

[illegible]

Tender Inviting Authority: GAIL (India) Ltd.

Name of Work: Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region (Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region viz. Bihar, Jharkhand, Odisha, West Bengal and North East Area) on ARC Basis

Contract No: 040-LYONS-GAIL-019

SCHEDULE OF WORK / ITEM(S)

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate	MAS CONSTRUCTIONS		SHAKTI ENGINEERS		COST ESTIMATE		Variance	AHR
					Rate	Amount	Rate	Amount	Rate	Amount		
330.00	Supply and Installation of Deep well Anode Beds with dual anode tail cable (from top and bottom of the anode string) of suitable length upto Anode 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 anode bed construction of minimum 50 meter deep, with minimum 8" (200 mm) Dia MS pipe filled with Petroleum Coke Breeze of resistance $\leq 5\Omega$, vent pipe, dead weight & a cable string of 10 mm ² size contains minimum 6 nos. mixed metal oxide coated titanium tubular anodes of size ST 1.6/50 cm, each MMO anode 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 mtrs in length (ie. 15 meter inactive anode bed), Nylon Rope, etc. from the approved vendor as per specification.	1.00	No.		450000.00	4,50,000.00	400000.00	4,00,000.00	686623.7	6,86,623.70	-41.74%	
331.00	Supply and Installation Anode Junction Box with all accessories (Like variable resistor, shunt, bus bar etc.,)	2.00	No.		60000.00	1,20,000.00	30000.00	60,000.00	34331.19	68,662.38	-12.62%	
332.00	Supply and Installation Cathode Junction Box with all accessories (Like shunt, bus bar etc.)	2.00	No.		50000.00	1,00,000.00	25000.00	50,000.00	27464.95	54,929.90	-8.97%	
333.00	Supply and Installation Reference Electrode Junction Box/test station with all accessories	2.00	Nos.		40000.00	80,000.00	26000.00	52,000.00	26778.32	53,556.64	-2.91%	
334.00	Supply and Installation Permanent Reference Cell with Special Backfill in Cotton bag	5.00	Nos.		35000.00	1,75,000.00	25000.00	1,25,000.00	26778.32	1,33,891.60	-6.64%	
335.00	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.											
336.00	1C x 6 sqmm armoured - Potential Measurement & ref. cell cable (RE/PE to REJB & REJB to CJB)	50.00	Mtrs		450.00	22,500.00	450.00	22,500.00	480.64	24,032.00	-6.37%	
337.00	10c x 2.5 sq mm measurement cable (from CJB to TRU)	50.00	Mtrs		650.00	32,500.00	900.00	45,000.00	961.27	48,063.50	-6.37%	
338.00	1C x 35 sqmm armoured (anode & cathode header cable)	50.00	Mtrs		850.00	42,500.00	600.00	30,000.00	652.29	32,614.50	-8.02%	
339.00	3C x 10 sqmm armoured conductor (AC incomer power supply cable from Main DB to TR unit - PVC/PVC, armoured)	10.00	Mtrs		650.00	6,500.00	450.00	4,500.00	480.64	4,806.40	-6.37%	
340.00	Supply and Installation of pipe to cable connection by Pin Brazing Encapsulation method	5.00	Nos.		6000.00	30,000.00	4000.00	20,000.00	4806.37	24,031.85	-16.78%	
341.00	Polarisation Coupons	5.00	Nos.		17000.00	85,000.00	3500.00	17,500.00	3433.12	17,165.60	1.95%	
342.00	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 parameters.	5.00	LS		37000.00	1,85,000.00	35000.00	1,75,000.00	41197.42	2,05,987.10	-15.04%	

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Tender Inviting Authority: GAIL (India) Ltd.												
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Contract No: 040-LYONS-GAIL-019												
SCHEDULE OF WORK / ITEM(S)												
Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate	MAS CONSTRUCTIONS		SHAKTI ENGINEERS		COST ESTIMATE		Variance	AHR
					Rate	Amount	Rate	Amount	Rate	Amount		
343.00	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.	5.00	Nos.		60000.00	3,00,000.00	25000.00	1,25,000.00	34331.19	1,71,655.95	-27.18%	
344.00	Testing and commissioning of PCP system	5.00	Lot		150000.00	7,50,000.00	50000.00	2,50,000.00	68662.37	3,43,311.85	-27.18%	
345.00	CIPL Survey	10.00	km		25000.00	2,50,000.00	15000.00	1,50,000.00	16982.41	1,69,824.10	-11.67%	
346.00	DCVG Survey	10.00	km		22000.00	2,20,000.00	15000.00	1,50,000.00	18526.62	1,85,266.20	-19.04%	
347.00	Note: (1) The quantities given above against individual items are indicative and shall not 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 each area, quantities given against individual item may be utilised / used for other consumers in same area.											
348.00	SECTION-E [ELECTRICAL WORKS]											
349.00	Supply, installation, testing, commissioning of Street Lighting Fixture suitable for 250W HPMV or Equivalent LED Lamps on Lighting Poles (4mtr 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.	10.00	Nos.		17000.00	1,70,000.00	30000.00	3,00,000.00	35088.59	3,50,885.90	-14.50%	
350.00	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.	1.00	Nos.		8000.00	8,000.00	10000.00	10,000.00	8639.69	8,639.69	15.74%	
351.00	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.	1.00	Nos.		4500.00	4,500.00	9000.00	9,000.00	9179.67	9,179.67	-1.96%	
352.00	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.	1.00	Nos.		6000.00	6,000.00	125000.00	1,25,000.00	13499.51	13,499.51	825.96%	AHR

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Contract No: 040-LYONS-GAIL-019

SCHEDULE OF WORK / ITEM(S)

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					Rate	Amount	Rate	Amount	Rate	Amount		
353.00	Floor mounted MEDB consisting of busbar chamber, cable alley, Incomer - 1 no. 200 Amp FP MCCB, Auto healthy phase selector & Outgoing - 2 nos. 100 Amp FP MCB, 9 nos. 63 Amp FP MCB, 3 nos. 32 Amp FP MCB(as per technical specification, data sheet & SLD enclosed with this tender), complete with ammeter, voltmeter, energy meter, voltage selector switch, indicating Lamps etc.	1.00	Nos.		210000.00	2,10,000.00	25000.00	25,000.00	26998.73	26,998.73	-7.40%	
354.00	Recess/Surface mounted Indoor Lighting Panel(ILP) Consisting of 40 Amp FP MCB+ELCB as incomer and 12 nos. 10A DP MCBs as out goings.	1.00	Nos.		25000.00	25,000.00	15000.00	15,000.00	17641.32	17,641.32	-14.97%	
355.00	Recess/Surface mounted Power Panel(PP) Consisting of 63 Amp FP MCB as incomer and 9 nos. 20A DP MCBs as out goings.	3.00	Nos.		41000.00	1,23,000.00	2000.00	6,000.00	2159.92	6,479.76	-7.40%	
356.00	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: 6 Nos. 16 Amp DP MCB	1.00	Nos.		100000.00	1,00,000.00	105000.00	1,05,000.00	119537.51	1,19,537.51	-12.16%	
357.00	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.	1.00	Nos.		21000.00	21,000.00	2500.00	2,500.00	3239.88	3,239.88	-22.84%	
358.00	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.	1.00	Nos.		2000.00	2,000.00	2000.00	2,000.00	2354.14	2,354.14	-15.04%	
359.00	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.	1.00	Nos.		60000.00	60,000.00	38000.00	38,000.00	41197.42	41,197.42	-7.76%	
360.00	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.	1.00	Nos.		1500.00	1,500.00	3000.00	3,000.00	3239.88	3,239.88	-7.40%	
361.00	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.	1.00	Nos.		4500000.00	45,00,000.00	15000.00	15,000.00	4954500	49,54,500.00	-99.70%	

Government eProcurement System
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Created Date/Time: 18-Apr-2022 03:26 PM

Tender Title: Construction of Steel Pipelines and Associated facilities for CGD Connectivities for Eastern Region (Bihar, Jharkhand, Odisha, West Bengal, North-East Area) on ARC Basis
Tender ID: 2022_GAIL_107748_1

Tender Inviting Authority: GAIL (India) Ltd.

Name of Work: Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region (Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region viz. Bihar, Jharkhand, Odisha, West Bengal and North East Area) on ARC Basis

Contract No: 040-LYONS-GAIL-019

SCHEDULE OF WORK / ITEM(S)

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate	MAS CONSTRUCTIONS		SHAKTI ENGINEERS		COST ESTIMATE		Variance	AHR
					Rate	Amount	Rate	Amount	Rate	Amount		
362.00	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.	1.00	Nos.		3500000.00	35,00,000.00	300000.00	3,00,000.00	2752500	27,52,500.00	-89.10%	
363.00	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.	1.00	Nos.		3000000.00	30,00,000.00	300000.00	3,00,000.00	1651500	16,51,500.00	-81.83%	
364.00	Supply, installation, testing & commissioning of the complete earthing system, earth electrodes/pit, earth main ring, earthing of metering 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. Each earthing system shall include the following.											
365.00	65mm dia 3 Mtr. Long GI PIPE Electrode with 6mm thick chequered plate cover, display board etc	16.00	Nos.		22000.00	3,52,000.00	15000.00	2,40,000.00	18526.62	2,96,425.92	-19.04%	
366.00	600x600x3mm copper plate Electrode with 6 mm thick chequered plate cover, display board etc	16.00	Nos.		27000.00	4,32,000.00	18000.00	2,88,000.00	21614.07	3,45,825.12	-16.72%	
367.00	GI Strip (50X6) mm	50.00	Mtrs.		500.00	25,000.00	350.00	17,500.00	408.73	20,436.50	-14.37%	
368.00	GI Strip (25X6) mm	400.00	Mtrs.		400.00	1,60,000.00	250.00	1,00,000.00	291.67	1,16,668.00	-14.29%	
369.00	1C 25 Sq.mm PVC insulated Cu Conductor	10.00	Mtrs.		450.00	4,500.00	430.00	4,300.00	488.72	4,887.20	-12.02%	
370.00	10 SWG GI wire	40.00	Mtrs.		75.00	3,000.00	165.00	6,600.00	174.61	6,984.40	-5.50%	
371.00	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.	1.00	Lot		55000.00	55,000.00	25000.00	25,000.00	23158.28	23,158.28	7.95%	

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					Rate	Amount	Rate	Amount	Rate	Amount		
372.00	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.											
373.00	4C X 6 Sqmm Cu conductor XLPE Insulated Armoured Power Cable of 1100V Grade	200.00	Mtrs.		750.00	1,50,000.00	600.00	1,20,000.00	642.85	1,28,570.00	-6.67%	
374.00	3C X 2.5 Sqmm Cu conductor XLPE Insulated Armoured Power Cable of 1100V Grade	100.00	Mtrs.		480.00	48,000.00	425.00	42,500.00	467.26	46,726.00	-9.04%	
375.00	SECTION-F [INSTRUMENTATION WORKS]											
376.00	Supply, Calibration and Installation of instrumentation items listed below: (For details, refer instrumentation specifications)											
377.00	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 proof heavy duty glass. (Refer the Data Sheet attached in Technical Volume)	10.00	Nos		4500.00	45,000.00	18000.00	1,80,000.00	23158.28	2,31,582.80	-22.27%	
378.00	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)	1.00	Nos		15000.00	15,000.00	25000.00	25,000.00	24522.28	24,522.28	1.95%	
379.00	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)	10.00	Nos		11500.00	1,15,000.00	65000.00	6,50,000.00	17544.3	1,75,443.00	270.49%	AHR
380.00	Pressure Switch of different range Supply of all consumable material, testing, installation, erection and commissioning.	1.00	Nos		25000.00	25,000.00	8000.00	8,000.00	8099.71	8,099.71	-1.23%	
381.00	Valve Junction Bob - Gas Over Oil Actuated 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.	8.00	Nos		5000.00	40,000.00	42000.00	3,36,000.00	48774.8	3,90,198.40	-13.89%	

Tender Inviting Authority: GAIL (India) Ltd.

Name of Work: Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region (Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region viz. Bihar, Jharkhand, Odisha, West Bengal and North East Area) on ARC Basis

Contract No: 040-LYONS-GAIL-019

SCHEDULE OF WORK / ITEM(S)

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate	MAS CONSTRUCTIONS		SHAKTI ENGINEERS		COST ESTIMATE		Variance	AHR
					Rate	Amount	Rate	Amount	Rate	Amount		
382.00	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.											
383.00	IR type, Flame proof, IP-65, housing material SS316 without display, range 0-100% LEL point hydrocarbon gas detector.	8.00	Nos		17000.00	1,36,000.00	125000.00	10,00,000.00	21053.16	1,68,425.28	493.74%	AHR
384.00	Junction box	5.00	Nos		14000.00	70,000.00	25000.00	1,25,000.00	44912.82	2,24,564.10	-44.34%	
385.00	Cables	100.00	Mtr		400.00	40,000.00	800.00	80,000.00	560.91	56,091.00	42.63%	
386.00	Other accessories such erection Material, mounting pole etc.	5.00	LS		23000.00	1,15,000.00	30000.00	1,50,000.00	5678.52	28,392.60	428.31%	AHR
387.00	Gas detection system cabinet	5.00	Nos		120000.00	6,00,000.00	115000.00	5,75,000.00	85200.19	4,26,000.95	34.98%	
388.00	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.											
389.00	1P X 1 .5 Sq. mm Over all Screened	150.00	Mtr		450.00	67,500.00	300.00	45,000.00	462.39	69,358.50	-35.12%	
390.00	1Q X 1 .5 Sq. mm Over all Screened	150.00	Mtr		600.00	90,000.00	400.00	60,000.00	539.45	80,917.50	-25.85%	
391.00	12P X 0 .5 Sq. mm Individual Screen & Over all Screened	300.00	Mtr		750.00	2,25,000.00	625.00	1,87,500.00	701.38	2,10,414.00	-10.89%	
392.00	12P X 0 .5 Sq. mm Over all Screened	300.00	Mtr		750.00	2,25,000.00	700.00	2,10,000.00	983.98	2,95,194.00	-28.86%	
393.00	3C X 2 .5 Sq. mm Power cable	400.00	Mtr		500.00	2,00,000.00	500.00	2,00,000.00	787.62	3,15,048.00	-36.52%	
394.00	Serial communication cable, Modbus RS - 485, PVC Sheathed, 4 pair	150.00	Mtr		500.00	75,000.00	600.00	90,000.00	702.36	1,05,354.00	-14.57%	
395.00	Junction Box	40.00	Nos		14000.00	5,60,000.00	30000.00	12,00,000.00	34142.36	13,65,694.40	-12.13%	
396.00	Cable Trays (60 mm wide x 30 mm height)	150.00	Mtr		700.00	1,05,000.00	325.00	48,750.00	441.4	66,210.00	-26.37%	

Name of Work:Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region (Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region viz. Bihar, Jharkhand, Odisha, West Bengal and North East Area) on ARC Basis

SCHEDULE OF WORK / ITEM(S)

[illegible]

Tender Inviting Authority: GAIL (India) Ltd.

Name of Work: Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region (Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region viz. Bihar, Jharkhand, Odisha, West Bengal and North East Area) on ARC Basis

Contract No: 040-LYONS-GAIL-019

SCHEDULE OF WORK / ITEM(S)

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate	MAS CONSTRUCTIONS		SHAKTI ENGINEERS		COST ESTIMATE		Variance	AHR
					Rate	Amount	Rate	Amount	Rate	Amount		
407.00	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 each 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.	6000.00	Mtr		25.00	1,50,000.00	65.00	3,90,000.00	63.41	3,80,460.00	2.51%	
408.00	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	6000.00	Mtr		100.00	6,00,000.00	60.00	3,60,000.00	69.26	4,15,560.00	-13.37%	
409.00	Laying of OFC cable in same pipeline trench	40.00	Mtr		100.00	4,000.00	80.00	3,200.00	108	4,320.00	-25.93%	
410.00	Supply and laying of GI Pipe (4") at crossings for protection of OFC / HDPE duct	40.00	Mtr		2000.00	80,000.00	700.00	28,000.00	637.58	25,503.20	9.79%	
411.00	Splicing, Jointing of Optical Fiber Cable (Including Supply and Installation of jointing pits including sand, etc. & joint markers)	14.00	Nos		25000.00	3,50,000.00	21000.00	2,94,000.00	23158.28	3,24,215.92	-9.32%	
412.00	Supply of FTC with pig tails other accessories for termination of OFC - 24 Fibre in the Telecom Room	14.00	Set		50000.00	7,00,000.00	21000.00	2,94,000.00	23392.4	3,27,493.60	-10.23%	
413.00	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.	14.00	Set		50000.00	7,00,000.00	25000.00	3,50,000.00	29719.46	4,16,072.44	-15.88%	
414.00	Supply, laying and termination of five pair armoured telephone cable 0.5 mm	10.00	Mtr		1500.00	15,000.00	25.00	250.00	24.52	245.20	1.96%	
415.00	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.	1.00	Nos		500000.00	5,00,000.00	75000.00	75,000.00	80997.07	80,997.07	-7.40%	
416.00	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.	1.00	Nos		200000.00	2,00,000.00	11000.00	11,000.00	13498.77	13,498.77	-18.51%	
417.00	Supply of coaxial cable with power for CCTVs, PVC insulated, SWA	5.00	Mtr		50000.00	2,50,000.00	375.00	1,875.00	377.99	1,889.95	-0.79%	
	Total exclusive of GST					14,04,28,600.00		8,95,79,575.00		9,52,44,576.82		

Government eProcurement System
Created By: MALEPPURATH GIRISH KUMAR
Created Date/Time: 18-Apr-2022 03:26 PM
Tender Title: Construction of Steel Pipelines and Associated facilities for CGD Connectivities for Eastern Region (Bihar, Jharkhand, Odisha, West Bengal, North-East Area) on ARC Basis
Tender ID: 2022_GAIL_107748_1

Tender Inviting Authority: GAIL (India) Ltd.

Name of Work: Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region (Construction of Steel Pipelines and Associated facilities for CGD Connectivities in Eastern region viz. Bihar, Jharkhand, Odisha, West Bengal and North East Area) on ARC Basis

Contract No: 040-LYONS-GAIL-019

SCHEDULE OF WORK / ITEM(S)

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate	MAS CONSTRUCTIONS		SHAKTI ENGINEERS		COST ESTIMATE		Variance	AHR
					Rate	Amount	Rate	Amount	Rate	Amount		
418.00	GST on total of the above items in Percentage (The Quantity mentioned in this row may be ignored)	1.00	percentage		18.00	2,52,77,148.00	18.00	16124323.5	18.00	1,71,44,023.83		
	Total in Figures					16,57,05,748.00		10,57,03,898.50		11,23,88,600.64	-5.95%	

Lowest Amount Quoted BY: SHAKTI ENGINEERS(105703898.50)

Total Item Nos.	249
Total AHR Items	35
Total Value of AHR items excluding GST	1,13,86,900.00
Recommended Contract Value excluding GST	8,95,79,575.00
AHR value as percentage of Contract Value	12.71%



M. Girish Kumar (GM - C&P)
Lyons Engineering Pvt. Ltd.
New Delhi

ANNEXURE III

CHECK LIST FOR RECOMMENDATION/ PROPOSAL FOR AWARD

E-TENDER REF : Tender ID: 040-LEPL-GAIL-019 E-TENDER REF:2022_GAIL_107748_1
dtd. 28.2.2022- ARC LAYING TENDER FOR EASTERN REGION

Sl. No.	Description	Compliance
1.	Dealing the review of Estimate by Estimate Review Committee	GAIL to mention
2.	Summary of Price Comparison of evaluated prices & estimates and	Complied
3.	Analysis and review of estimate if L1 price is higher than estimates	L1 Price is lower than the estimate by 5.95%.
4.	Deliberation on insufficient competition (wherever applicable)	Since there are only qualified 2 Bidders for this Tender, insufficient competition is there. However the price quoted by L1 Bidder is very competitive and hence order can be placed on the L1 Bidder.
5.	Any suspicion regarding cartelization	No
6.	Recommendation on re-tendering (if applicable)	Not applicable
7.	Impact on project cost (Not applicable for O&M)	No impact
8.	Impact of delivery period on Project Schedule	No impact
9.	Details of total financial implication committed on the project (for projects)	GAIL may mention
10.	Analysis of L1 price if it is higher than estimates	L1 rates are lower than the estimate.
11.	Ordering Cycle time	27 days
12.	Past purchase price comparison for purchases	Past Purchase price also Considered.
13.	Clear recommendation for approval is to be submitted, no conditional recommendation.	Clear recommendation provided
14.	Details of prices submitted after Reverse Auction and variations thereof (wherever applicable)	Not applicable

15.	Verifying that name of recommended bidder (s) are not appearing in Holiday/ Banning list, available on Intranet Further the vendor code through which offer is submitted is same as the vendor code on which order/ contract is to be placed (mentioned in bid) Bill to and ship to details as per guidelines in this regard.	L1 bidder's name is not banned/black listed. Complied Complied Not applicable
16.	Total committed cost in project with the award of subject package (Not applicable for O&M). Head Wise (Approved/ Committed/Actual/ Anticipated) as per enclosed Appendix-I.	GAIL to mention
17.	Dealing of purchase preference to MSEs (wherever applicable).	PPP for MSE is not applicable in this Tender.
18.	Dealing of purchase preference PP-LC (wherever applicable)	As per Form F-25 submitted by the bidders Bidders has declared themselves as Class 1 Supplier with local content of more than 50%.
19.	Dealing of purchase preference to DMEPs (wherever applicable)	Not applicable
20.	Whether any order is placed on Startup. If yes, the safeguard mentioned in C&P Procedure is to be deliberated.	Not applicable
21.	Dealing of insufficient competition in terms of clause no. 4.16 of C&P Procedure (wherever applicable).	Since there are only 2 qualified Bidders for this Tender, insufficient competition is there. However the price quoted by L1 Bidder is very competitive and hence order can be placed on the L1 Bidder.
22.	Cost details showing all DFR heads in DFR vs committed vs actual (for Project cases)	GAIL to mention

23.	For the cases of Repeat Order (i) Confirmation that repeat order does not exceed 50% of Original Qty (or as mentioned in original PO) and is placed within 06 months from Notification of Award. (ii) Confirmation that repeat order is not being placed on an emergency purchase, negotiated purchase, sole acceptable offer basis and where the prices against original order were escalated to compensate for early delivery(ies) (iii) Confirmation from Indenter/ User/Project Department as per 3.5 (i) of Section-11 of C&P Procedure (iv) Confirmation that repeat Order is not for any new location or Project other than that specified in tender document.	Not applicable
24.	Relevant clauses of DoP and C&P Procedures (as applicable)	GAIL to mention
25.	Preparation of Draft ECPC Agenda as per format and keeping the same in file (for ECPC cases)	GAIL to mention
26.	Whether all the fact of case has been considered while preparing the Recommendations	Yes
27.	Time taken from Price bid opening to Award recommendation	3 days



M.Girish Kumar (GM - C&P)
Lyons Engineering Pvt. Ltd.
New Delhi

MINUTES OF MEETING:

Sub : PRICE BID OPENING FOR ARC LAYING TENDER REF : 040-LYONS-GAIL-019 FOR EASTERN REGION HELD THROUGH VIDEO CONFERENCE ON 18.4.2022

Client : GAIL officials present :

Shri. Jagannath (PE)
Shri. Sandeep Sahoo (C&P)
Shri. Alok Saxena (Finance)

PMC : Lyons Engineering : Mr. M Girish Kumar

Bidder: None

M/s. Lyons Engineering welcomed the participants.

Price Bid was opened on Scheduled date and time at 15.00 PM. . Price details quoted by Bidder was read out which is as under;

MAS CONSTRUCTIONS	16,57,05,748.00
SHAKTI ENGINEERS	10,57,03,898.50

Meeting was concluded at 3.30 PM

[Handwritten signature]

On behalf of
Lyons Engineering Pvt. Ltd.
Signed by
M. Girish Kumar
General Manager (C&P)

GAIL (India) Ltd.

Dt.18.4.2022

From: Ravendra Singh (रवेन्द्र सिंह) <ravendrasingh@gail.co.in>
Sent: 18 April 2022 12:34
To: girish.kumar@lyonsengineers.com
Cc: Girjesh Kumar (गिरजेश कुमार); Jagannath (जगन्नाथ); Ravi Shanker (रवि शंकर)
Subject: RE: CONSTRUCTION OF STEEL PIPELINES AND ASSOCIATED FACILITIES FOR CGD CONNECTIVITIES IN EASTERN REGION (BIHAR, JHARKHAND, ODISHA, WEST BENGAL AND NORTH EAST AREA) ON ARC BASIS (Tender Id- 2022_GAIL_107748_1)

Dear Sir,
Please plan price bid opening of subject tender at the earliest.

सादर, / *Regards*
रवेन्द्र सिंह, / *Ravendra Singh*
वरिष्ठ प्रबन्धक (परियोजना) / *SM (Projects)*
सीपीएफ नं १६१५७, / *Cpf no. 16157*
गेल नोएडा, / *GAIL Noida*
दूरभाष संख्या / *Contact No. - 869 11818/9925479764*

From: girish.kumar@lyonsengineers.com <girish.kumar@lyonsengineers.com>
Sent: 18 April 2022 12:32
To: Ravi Shanker (रवि शंकर) <ravi.shanker@gail.co.in>; Ravendra Singh (रवेन्द्र सिंह) <ravendrasingh@gail.co.in>
Cc: Girjesh Kumar (गिरजेश कुमार) <girjesh.kumar@gail.co.in>; Jagannath (जगन्नाथ) <jagannath@gail.co.in>
Subject: FW: CONSTRUCTION OF STEEL PIPELINES AND ASSOCIATED FACILITIES FOR CGD CONNECTIVITIES IN EASTERN REGION (BIHAR, JHARKHAND, ODISHA, WEST BENGAL AND NORTH EAST AREA) ON ARC BASIS (Tender Id- 2022_GAIL_107748_1)

CAUTION: External Email. Do not click links or open attachment unless you trust the Sender and know the Content is safe. Report suspicious mails to "cybersec@gail.co.in".

Dear Sir,
Please provide the approval.

Thanks and Regards,

M. Girish Kumar
General Manager – Contracts and Procurement
Lyons Engineering Pvt. Ltd
C-35 | Lajpat Nagar Part I | New Delhi | India |
Tel | Fixed line : +91 11 49508755 | Mobile : 9654993340
www.lyonsengineers.com

From: SANDIP SUNDAR SAHOO (संदिप सुंदर साहू) <sandip.sahoo@gail.co.in>
Sent: 18 April 2022 11:55
To: Ravi Shanker (रवि शंकर) <ravi.shanker@gail.co.in>
Cc: Siddhartha Ghosh (सिद्धार्थ घोष) <SG02492@gail.co.in>; Kaladhar Narayan (कलाधर नारायण) <kaladhar@gail.co.in>;

Girjesh Kumar (गिरजेश कुमार) <girjesh.kumar@gail.co.in>; Jagannath (जगन्नाथ) <jagannath@gail.co.in>; Ravendra Singh (रवेन्द्र सिंह) <ravendrasingh@gail.co.in>; girish.kumar@lyonsengineers.com

Subject: CONSTRUCTION OF STEEL PIPELINES AND ASSOCIATED FACILITIES FOR CGD CONNECTIVITIES IN EASTERN REGION (BIHAR, JHARKHAND, ODISHA, WEST BENGAL AND NORTH EAST AREA) ON ARC BASIS (Tender Id- 2022_GAIL_107748_1)

Dear Sir,

Competent Authority has accorded the approval for Price bid opening of following two bidders inline with PMC recommendation:

1. M/s MAS Constructions
2. Shakti Engineers

PMC may be advised for Price bid opening at the earliest.

Regards,
Sandip Sundar Sahoo
Sr. Officer (C&P-Projects)

Har Ek Kaam Desh Ke Naam

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Har Ek Kaam Desh Ke Naam

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