



मेकॉन लिमिटेड (भारत सरकार का संस्थान)

MECON LIMITED (A GOVT. OF INDIA ENTERPRISES)



13वां एवं 15वां तल, नार्थ टॉवर, स्कोप मीनार, लक्ष्मी नगर व्यवसायिक केन्द्र, दिल्ली-110092, (भारत)

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स्वीकृति का फैक्स / FAX OF ACCEPTANCE (FOA)

FOA NO. 05/51/Q7NT/GAIL/001-I-07/FOA-1017

DATE: 21.03.2024

TO : M/S KRITA ENGINEERING PVT. LTD.

PHONE : +91- 80 43524444, 9740066636

EMAIL : krita@airtelmail.com , nahatalalit@hotmail.com , umesh_p_yashu@yahoo.co.in

ATTN : MR. P. UMESH, MANAGER & MR. ARUN NAHATA, DIRECTOR

FROM : SR. GM (CONTRACTS), MECON LIMITED, DELHI

PLEASE REFER TO YOUR OFFER NO. KRITA/GAIL/ID:2024_GAIL_180252_1 DATED 23.01.2024 (NIC BID ID: 661748) AND ALL OTHER SUBSEQUENT CORRESPONDENCE AGAINST BIDDING DOCUMENT NO. 05/51/Q7NT/GAIL/001-I-07 DATED 08.01.2024 (TENDER ID : 2024_GAIL_180252_1) FOR LAYING, HDD AND ASSOCIATED WORKS OF 8" & 6" NB DIA. PIPELINE UNDER CUTTACK GA (12 MONTHS ANNUAL RATE CONTRACT (ARC)) FOR CGD PROJECT AT SIX GAS FOR GAIL (INDIA) LIMITED (.)

WE HEREBY ISSUE THIS FAX OF ACCEPTANCE (FOA) FOR AWARD FOR COMPLETE SCOPE OF WORK OF TENDER AT AN ESTIMATED CONTRACT VALUE OF RS. 5,65,83,650/- (INDIAN RUPEES FIVE CRORE SIXTY-FIVE LAKH EIGHTY-THREE THOUSAND SIX HUNDRED FIFTY ONLY) EXCL. GST. GST SHALL BE PAYABLE EXTRA AS PER TENDER PROVISIONS. (PRESENT RATE OF GST@18%).

THE DETAILED BREAKUP OF ABOVE ORDER VALUE IS ENCLOSED AS ANNEX-1(.)

THE COMPLETION PERIOD SHALL BE AS PER TENDER DOCUMENT(.)

PLEASE SUBMIT CONTRACT PERFORMANCE BANK GUARANTEE @ 10% OF ANNUALISED CONTRACT/ORDER VALUE [EXCLUDING GST] AS PER CL. NO. 38 OF ITB OR AS PER BDS (ANNEXURE-IV TO SECTION-III OF VOL I OF III) AND CONTRACT AGREEMENT AS PER CL. NO.37 OF ITB OF TENDER DOCUMENT (.)

YOU ARE REQUESTED TO CONTACT PROJECT COORDINATOR (MR. PRATEEK MAHESHWARI, MANAGER (CGD), MECON LIMITED, EMAIL ID: pmaheshwari@mecon.co.in) FOR FURTHER INSTRUCTIONS (.)

ALL OTHER TERMS AND CONDITIONS SHALL BE AS PER BIDDING DOCUMENT & CORRIGENDUM THERE OF AS STATED ABOVE AND AS AGREED TILL DATE (.)

A DETAILED ORDER SHALL FOLLOW (.)

FOR & ON BEHALF OF GAIL (INDIA) LIMITED
(BY ITS CONSTITUTED ATTORNEY)

राकेश शर्मा / RAKESH SHARMA

वरि. महाप्रबंधक (अनुबंध) / SR. GM (CONTRACTS)

मेकॉन लिमिटेड, दिल्ली / MECON LIMITED, DELHI

CC: BY COURIER TO:

M/s Krita Engineering Pvt. Ltd.

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SCHEDULE OF RATES FOR LAYING, HDD AND ASSOCIATED WORKS OF 8" & 6" NB DIA. PIPELINE UNDER CUTTACK GA FOR CITY GAS DISTRIBUTION NETWORK (12 MONTHS ANNUAL RATE CONTRACT (ARC)) OF M/S GAIL (INDIA) LTD

dt. 21/03/24

Tender No.: 05/51/Q7NT/GAIL/001-i-07 , Tender ID: 2024_GAIL_180252_1

Sl. No.	Item Description	Quantity	Units	KRITA		AHR
				UNIT RATE INCLUSIVE OF ALL TAXES, DUTIES, LEVIES, FREIGHT, INSURANCE, INCLUDING INSURANCE OF FREE ISSUE MATERIALS, TAXES ON BUILDING AND OTHER CONSTRUCTION WORKERS, ETC. BUT EXCLUDING GST AS DEFINED IN BID DOCUMENT (IN R)	TOTAL AMOUNT INCLUSIVE OF ALL TAXES, DUTIES, LEVIES, FREIGHT, INSURANCE, INCLUDING INSURANCE OF FREE ISSUE MATERIALS, TAXES ON BUILDING AND OTHER CONSTRUCTION WORKERS, ETC. BUT EXCLUDING GST AS DEFINED IN BID	
1	SECTION-A (HDD WORKS)					
2	PIPELINE STRING PREPARATION & THEIR PRE-TESTING FOR ALL TYPES OF CROSSINGS BY HDD METHOD					
3	Receiving and taking-over as defined in the specification, handling, loading, transportation and unloading of Owner supplied 3-Layer PE coated and bare linepipes from Owner's designated stock-yard to Contractor's stock yard/workshop/work-site and other Owner supplied materials from Owner's designated place(s) of issue/ dump site(s) to Contractor's own stock-yard(s)/ Work Shop(s)/ work-site(s) including stringing of line pipes on the desired alignment required for pulling of pipeline string during HDD operation, preparation of pipeline string of coated linepipe, associated fittings and accessories, etc. of following sizes given below, including executing all works; arrangement of all additional land required for Contractor's storage, fabrication, access for construction; supply of all materials (except Owner supplied materials), consumables, labour and other incidental works; return of the surplus pipes to the Owner's designated stockyard(s); carrying out all temporary, ancillary, auxiliary works required to make the pipeline ready for pulling / insertion by HDD method as per drawings, specifications, scope of work indicated in SCC and other provisions of Contract document and instructions of Owner, including but not limited to carrying out the following works:					
4	Staking and installation of construction markers, clearing, fencing, grubbing, fulfilling all the requirements of various concerned statutory authorities to their entire satisfaction. Clearing & grading / cleaning of work area, shifting of all obstruction within the ROU/ pipeline corridor as per Pipeline route alignment viz. electrical lines/ poles, telephone line / poles, foreign pipeline/ utility cable, etc. Carryout liaisoning & co-ordination works (including Crossings) and obtaining / getting permission from these authorities and payment shall be made under Sl No. : 131 (Item Code A001200) mentioned elsewhere in this SOR.					
5	Barricading the pipeline construction area prior to execution of the works as per drawings enclosed with tender document and to the entire satisfaction of Owner / Engineer-in-charge (EIC) / Resident construction manager (RCM).					
6	Carrying out repairs of pipe defects/ replacement in case of irreparable defects and repairs of defects of pipe coating not attributable to Owner including defects/ damages occurring during transportation/ handling after taking over from Owner by Contractor including management of their own dump site / yard, if required.					
7	Stringing of line pipes shall be kept / rested on straw/ sand/ soft soil bags (including supply) along the required alignment as per approved HDD profile. Additional space if required for string preparation and to keep pipeline string alignment in order shall be under contractor scope and included in this SOR items for all pipeline sizes.					
8	Checking, cleaning, aligning, bending, cutting and bevelling (as required) of pipes to carry out welding and field adjustments including pipe fittings/flanges/valves etc. and their welding, carrying out destructive / non-destructive testing of welds as required as per the specification including 100% radiography by X-ray either by internal source or by external source based on site conditions/front availability and in this regard decision of EIC/RCM shall be final and binding to the contractor (In case placement/installation of X-ray equipment is not feasible, in that case Gamma ray may be permitted as per decision of Engineer In-Charge(EIC)/RCM based on site conditions) and providing all requisite equipment, labour, supervision, materials, films, consumables, all facilities and personnel to process, develop, examine and interpret radiographs and other tests as required, carrying out repairs of weld joints found defective by Engineer-in-Charge (EIC) / RCM , carrying out re-radiography and other tests as required on repaired joints.					
9	Carrying out cleaning, gauging, water filling, pre-hydrotesting of complete pipeline string in one section/ test sections as approved by EIC/RCM to specified test pressures (i.e.1.5 times of Design pressure) for 4 hours hold period; providing all equipment, pumps, test headers, fittings, pressure & temperature instruments etc., and services, supervision, labour, consumables, water, air, etc. as required; detection of leaks, if any occurred during pre-hydrotesting, attributable to Contractor and rectification of defects, re-testing after rectification with due approval of Owner, successful completion of pre-hydrotesting including dewatering of pipeline to acceptance criteria defined in the specifications. Supply of required quantity of corrosion inhibitor, if required for pre-testing of designated sections complete as per specification and approved by Engineer-in-charge (EIC)/ RCM. Note : 1. Leak detection, its rectification and successfully re-hydrotesting shall be carried out by Contractor with a view that completion of all activity for successful pre-hydrotesting should not be inordinately extended / delayed , which will hamper the overall project schedule. Further, no extra payment claim shall be entertained for re-hydrotesting, leak detection and their rectifications if defects found attributable to Contractor. 2. Payment for Gauging activity mentioned above shall be made under Sl. no. 104 (Item Code A00700) mentioned elsewhere in this SOR.					
10	Application of coating material on field joints of pipeline string after successful pre- hydrotest. Field joint coating material shall be supplied of special type "Dirax" or equivalent Heat Shrink Sleeve along with supply of special type coating repair patch material PERP -60E or equivalent compatible with 3-Layer PE coating as per tender/technical specifications with prior approval of EIC/RCM.					
11	Digging of Entry and exit pit for carrying out HDD as per the instruction of EIC/GAIL GA Incharge					

SCHEDULE OF RATES FOR LAYING, HDD AND ASSOCIATED WORKS OF 8" & 6" NB DIA. PIPELINE UNDER CUTTACK GA FOR CITY GAS DISTRIBUTION NETWORK (12 MONTHS ANNUAL RATE CONTRACT (ARC)) OF M/S GAIL (INDIA) LTD

Tender No.: 05/51/Q7NT/GAIL/001-i-07 , Tender ID: 2024_GAIL_180252_1

Sl. No.	Item Description					Quantity	Units	KRITA		AHR
								UNIT RATE INCLUSIVE OF ALL TAXES, DUTIES, LEVIES, FREIGHT, INSURANCE, INCLUDING INSURANCE OF FREE ISSUE MATERIALS, TAXES ON BUILDING AND OTHER CONSTRUCTION WORKERS, ETC. BUT EXCLUDING GST AS DEFINED IN B/D DOCUMENT (IN INR)	TOTAL AMOUNT INCLUSIVE OF ALL TAXES, DUTIES, LEVIES, FREIGHT, INSURANCE, INCLUDING INSURANCE OF FREE ISSUE MATERIALS, TAXES ON BUILDING AND OTHER CONSTRUCTION WORKERS, ETC. BUT EXCLUDING GST AS DEFINED IN B/D	
12	Final clean-up and restoration of additional land / right of use / corridor including obtaining NOC from respective land owners & statutory authorities if required, and disposal of debris and returning of surplus material to Owner's designated disposal area(s)/ stockyard(s) as directed by Owner/EIC/RCM.									
13	Preparation of pipe-book and other records as specified in the specifications									
14	Line pipe details									
15	Specified dia (mm)	Thk (mm)	Material	Coating Type	Length of each pipe (mm) NB					
16	200	6.4	API 5L Gr. X-52	3 Layer PE Coating (Externally)	Double random (approx. 11.5 m to 12.5 m)	1050	Mtr	2,000	2,100,000	
17	150	6.4	API 5L Gr. X-52	3 Layer PE Coating (Externally)	Double random (approx. 11.5 m to 12.5 m)	575	Mtr	1,200	690,000	
18	NOTE-									
19	(i) The quantities mentioned against the above SOR items are tentative and may vary depending upon the site condition during execution stage.									
20	(ii) The total quantities mentioned against the above SOR items are for multiple/various crossings at different location within GA.									
21	(iii) Payment for above item no. shall be made only for the approved pipeline string length for HDD.									
22	(iv) Payment for Gauging activity mentioned above shall be made under item mentioned elsewhere in this SOR.									
23	GEOTECHNICAL INVESTIGATION, HYDROGRAPHICAL & HYDROLOGICAL SURVEY OF RIVER/ CANAL/ NALA/ WATERBODIES AND GEOTECHNICAL INVESTIGATION & CROSSING SURVEY OF RAILWAY / ROAD/CULVERT CROSSING									
24	Carrying out Pre-construction survey and detail survey for crossings after liaisoning & coordination from concerned authority. Detail survey includes minimum but not limited to carrying out complete Geotechnical Investigation (including all laboratory test & field test), Hydrographical & Hydrological Survey of River / Canal/Nala/Waterbodies for the purpose of crossing the River / Canal/Nala/Waterbodies by HDD method including obtaining work permit / NOC from concerned authority complete in all respect as per Scope of Work & Technical Specification and instruction of Engineer-In-Charge (EIC)/RCM and submitting Final Report & Drawing (along with soft copy) incorporating all field and laboratory data, Drawings, Maps, Data etc. (One Lot) in an approved format with full scale for Soil Investigation, Scour Depth etc. in accordance with the Technical Specification, Drawings, approved QAP, implementation schedule and other provisions of the Tender Document and instructions of the Engineer-in-charge (EIC)/RCM. NOTE: Payment for carrying out liaisoning & co-ordination works for Crossings and obtaining permission / NOC from these authorities shall be made under item mentioned elsewhere in this SOR.									
25	For road/rail crossings, pre-construction survey based on site visit, topographical survey, geotechnical investigation to establish bed strata upto sufficient depth, collection of data (if required) from concerned Authority including design and detail engineering and making of HDD Profile drawings for crossing and getting their approval from concerned Authority/ Engineer-in-charge including carrying out liaisoning & co-ordination works and obtaining permission / NOC from these authorities for the crossing as well as utility/foreign pipeline crossings (if any) prior to start the execution of work. NOTE: Payment for carrying out liaisoning & co-ordination works for crossings as well as utility/foreign pipeline crossings (if any) and obtaining permission / NOC from these authorities shall be made under item mentioned elsewhere in this SOR.									
26	GEOTECHNICAL INVESTIGATION, HYDROGRAPHICAL & HYDROLOGICAL SURVEY OF RIVER/ CANAL/ NALA/ WATERBODIES									
27	Crossing of NALA/WATERBODIES in multiple stretch / shot (Size 8" NB/ 6" NB) in Cuttack GA - (Measurement will be carried out on the basis of individual crossing profile width and payment will be done accordingly)					250	Mtr	2,000	500,000	AHR
28	Crossing of RIVER/CANAL in multiple stretch / shot (Size 8" NB/ 6" NB) in Cuttack GA (Measurement will be carried out on the basis of individual crossing profile width and payment will be done accordingly)					250	Mtr	2,000	500,000	
29	GEOTECHNICAL INVESTIGATION & CROSSING SURVEY OF RAILWAY / ROAD/CULVERT CROSSING									
30	Crossing of Road/Railway/Culvert in multiple stretch / shot (Size 8" NB/ 6" NB) in Cuttack GA (Measurement will be carried out on the basis of individual crossing Profile width and payment will be done accordingly)					100	Mtr	1,500	150,000	
31	Note : (i) For Nala/Water Bodies/River/Canal etc Bidder/contractor have to execute Geo-technical, hydrological & hygraphical survey as per technical specification and direction of EIC ii)for railway/ road/Culvert crossings contractor have to execute geotechnical & crossing survey as per technical specification and direction of EIC.									
32	(ii) For geotechnical survey/investigation: 1. For River/Canal - Two Nos Bore holes each at both banks of depth 15 meter and in river bed bore holes of depth 25 m at a distance of 75 meter centre to centre.									
33	2. For Nala/Other Water Body Crossings..etc - One No Bore holes each at both banks of depth 15 meter and on bed bore holes of depth 15 m at a distance of 75 meter centre to centre.									

SCHEDULE OF RATES FOR LAYING, HDD AND ASSOCIATED WORKS OF 8" & 6" NB DIA. PIPELINE UNDER CUTTACK GA FOR CITY GAS DISTRIBUTION NETWORK (12 MONTHS ANNUAL RATE CONTRACT (ARC)) OF M/S GAIL (INDIA) LTD

Tender No.: 05/51/Q7NT/GAIL/001-i-07 , Tender ID: 2024_GAIL_180252_1

Sl. No.	Item Description	Quantity	Units	KRITA		AHR
				UNIT RATE INCLUSIVE OF ALL TAXES, DUTIES, LEVIES, FREIGHT, INSURANCE, INCLUDING INSURANCE OF FREE ISSUE MATERIALS, TAXES ON BUILDING AND OTHER CONSTRUCTION WORKERS, ETC. BUT EXCLUDING GST AS DEFINED IN B/D DOCUMENT (IN INR)	TOTAL AMOUNT INCLUSIVE OF ALL TAXES, DUTIES, LEVIES, FREIGHT, INSURANCE, INCLUDING INSURANCE OF FREE ISSUE MATERIALS, TAXES ON BUILDING AND OTHER CONSTRUCTION WORKERS, ETC. BUT EXCLUDING GST AS DEFINED IN B/D	
34	3. For Railway Crossings/Road/Culvert Crossings ,etc - One No Bore holes each at both sides of depth 10 meter.					
35	4.Laboratory test & field test shall be as per technical specification & tender documents.					
36	5. Bank width for Canal/nala/other water body crossings and survey length for railway crossings/road etc will be as per site conditions. Survey has to be done of bank width/survey width and minimum 50 meter at both end expect at river Crossings. For River crossing survey has to be done of bank width and minimum 100 meter at both end.					
37	6. Rock shall be considered at location at which the core recovery is min 25%.					
38	7. Quantity indicative above is tentative and for multiple crossings of size 8" / 6" NB dia pipeline with in the GA. Quantity may increase/ decrease or delete as per site requirement.					
39	HDD CROSSING FOR RIVER /NALA / CANAL / ANY OTHER WATER BODIES/ RAIL / ROAD CROSSING/ ANY OTHER CROSSING					
40	Complete work for installation/pulling/insertion of pre tested and field joint coated carrier pipeline across the crossings (between the ROW limits as per approved HDD profile drawing of crossings) by HDD method including mobilization of HDD machine/rig along with adequate size and diameter of drilling rods, cutting tools etc. of suitable capacity and other associated machineries/ equipments/ materials required for hindrance free and smooth pulling/insertion of pre tested and field joint coated carrier pipeline across the crossings. Supply of all Contractor supplied material including consumables, experienced manpowers, equipments/machineries, other resources etc. to work site(s) and additional land / space required for placement of HDD rig/machine along with other associated equipments/machineries, materials etc to complete the crossing works. Execution of, but not limited to, following works in accordance with specifications and instruction of Engineer-in-charge and as per all provision of Contract Document.					
41	Carrying out Pre-construction survey and detail survey for river/water bodies crossings to establish bed strata upto sufficient depth, collection of data (if required) from concerned Authority. Carrying out design and detail engineering and making of HDD Profile drawings for crossing and getting their approval from concerned Authority/ Engineer-in-charge including utility/foreign pipeline crossings (if any) prior to start of work. Carrying out liaisoning & co-ordination works for crossings as well as utility/foreign pipeline crossings (if any) and obtaining work permit/ NOC from concerned Authority prior to start the execution of work. Assistance in ROU opening & closing and their maintenance/ management both side of the crossings.					
42	For road/rail crossings, carrying out pre-construction survey based on site visit, topographical survey, geotechnical investigation to establish bed strata upto sufficient depth, collection of data (if required) from concerned Authority including design and detail engineering and making of HDD Profile drawings for crossing and getting their approval from concerned Authority/ Engineer-in-charge including carrying out liaisoning & co-ordination works for crossings as well as utility/foreign pipeline crossings (if any) and obtaining work permit/ NOC from concerned Authority prior to start the execution of work. Assistance in ROU opening & closing and their maintenance/ management both side of the crossings.					
43	Carrying out complete work for installation/pulling/insertion of pre tested and field joint coated carrier pipeline across the crossings (between the ROW limits as per approved HDD profile drawing of crossings) by HDD method. Including digging of entry & exit pit as per requirement of work and design criteria.					
44	For waterbodies/river crossings: Drilling to the required depth on the banks and bed including maintenance of drill hole in all types of strata, all depth to accommodate the pipeline and HDPE duct at all conditions of the crossings as per approved HDD profile and providing minimum cover specified in code/specification or the actual depth as decided by concerned authority, whichever is more.					
45	In case of Crossing of Nala/ Waterbody/River/Canal minimum cover shall be - (i) 1.5m below the scour level / profile for river and 1.5m below the available lowest bed level of water bodies, duly approved/ accepted by concerned authority (under whose jurisdictions the crossing lies) - For rivers/Canal/Nala/waterbodies/ with rocky (Hard/soft) bed / strata. . or (ii) 2.5m below the scour level / profile for river and 2.5m below the available lowest bed level of water bodies, duly approved/ accepted by concerned authority (under whose jurisdictions the crossing lies) - For rivers/Canal/Nala/waterbodies/ with rocky (Hard/soft) bed / strata. . or (iii) 1.5m below the available lowest bed level / profile, duly approved/ accepted by concerned authority (under whose jurisdictions the crossing lies) - For minor waterbodies crossings (i.e. bank to bank width less than or equal to 7.5 meter). and (iv) In addition to point (i) & (ii), In case of multiple combined X-ing i.e. river alongwith road/ drain, minimum cover requirement as per specification/ concerned authority for each type of x-ing has also to be fulfilled.					
46	For rail/road/culvert crossings: Drilling to required depth from top of rail/road/culvert including maintenance of drill hole in all types of strata, all depth to accommodate the pipeline & HDPE duct at all conditions of the crossings as per approved HDD profile and providing minimum cover specified in code/specification or the actual depth as decided by concerned authority, whichever is more.					
47	Installation of the proposed pipeline below the crossing bed by HDD method to the correct profile as per approved drawings.					

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Tender No.: 05/51/Q7NT/GAIL/001-i-07 , Tender ID: 2024_GAIL_180252_1

Sl. No.	Item Description	Quantity	Units	KRITA		AHR
				UNIT RATE INCLUSIVE OF ALL TAXES, DUTIES, LEVIES, FREIGHT, INSURANCE, INCLUDING INSURANCE OF FREE ISSUE MATERIALS, TAXES ON BUILDING AND OTHER CONSTRUCTION WORKERS, ETC. BUT EXCLUDING GST AS DEFINED IN B/D DOCUMENT (IN INR)	TOTAL AMOUNT INCLUSIVE OF ALL TAXES, DUTIES, LEVIES, FREIGHT, INSURANCE, INCLUDING INSURANCE OF FREE ISSUE MATERIALS, TAXES ON BUILDING AND OTHER CONSTRUCTION WORKERS, ETC. BUT EXCLUDING GST AS DEFINED IN B/D	
48	Carrying out cleaning, pigging, gauging and post installation hydrostatic testing of complete pipeline section laid by HDD method as approved by EIC/RCM to specified pressures (i.e. 1.5 times of the design pressure) for 24 hours holding period. The detail work description for post installation hydrostatic testing activities are mentioned in Sl. no. 109 (Item Code A00800), however gauging activity shall be carried out as per detail mentioned in Sl. no. 104 (Item Code A00700). Payment for Gauging activity & post installation hydrostatic testing activity shall be made separately under Sl. no. 104 (Item Code A00700) & Sl. no. 109 (Item Code A00800) respectively mentioned elsewhere in this SOR					
49	Backfilling of the ditch / trench including restoration, clean-up of area, disposal of drilling fluid & waste, etc. to the designated place with entire satisfaction of EIC/RCM/ Concerned Authority and getting NOC from concerned authority.					
50	Preparation and submission of as built drawings & other drawings/documents, etc. duly approved by EIC/RCM.					
51	Laying of the carrier pipeline and 02 / 01 nos. HDPE duct (HDD CROSSING FOR RIVER /NALA / CANAL / ANY OTHER WATER BODIES/ RAIL / ROAD CROSSING/ ANY OTHER CROSSING) by the approved HDD method across the crossing as per decision of the EIC/RCM based on the site condition and requirement of the concerned authority. In this regard decision of the EIC/RCM shall be final and binding to the contractor.					
52	Crossing of NALA/WATER BODIES etc					
53	Crossings for carrier pipeline of size 200 mm NB x 6.4mm Thk. of API 5L Grade X-52 in NORMAL SOIL/HARD SOIL STRATA except Rocky Strata(Soft/Hard Rock)	250	Mtr	5,500	1,375,000	
54	Crossings for carrier pipeline of size 200 mm NB x 6.4mm Thk. of API 5L Grade X-52 in any type of ROCKY STRATA including Soft/Hard rock	150	Mtr	10,000	1,500,000	
55	Crossings for carrier pipeline of size 150 mm NB x 6.4mm Thk. of API 5L Grade X-52 in NORMAL SOIL/HARD SOIL except Rocky Strata (Soft/Hard Rock) STRATA	100	Mtr	4,400	440,000	
56	Crossings for carrier pipeline of size 150 mm NB x 6.4mm Thk. of API 5L Grade X-52 in any type of ROCKY STRATA including Soft/Hard rock	50	Mtr	9,000	450,000	
57	Note: (i) Quantity indicated above against each item is tentative and for multiple crossings for Nala/Water Bodies crossing. It may increase/decrease as per site condition and approved survey details. (ii) Quantity mentioned against above items rate are breakup for different type of bed strata may encountered in NALA/Water Bodies crossing which is to be crossed in a single stretch and payment shall be made based on approved strata length drilled by the contractor.					
58	Crossing of River/Canal etc					
59	Crossings for carrier pipeline of size 200 mm NB x 6.4mm Thk. of API 5L Grade X-52 in NORMAL SOIL/HARD SOIL except Rocky Strata(Soft/Hard Rock)	250	Mtr	5,500	1,375,000	
60	Crossings for carrier pipeline of size 200 mm NB x 6.4mm Thk. of API 5L Grade X-52 in any type of ROCKY STRATA including Soft/Hard rock	150	Mtr	10,000	1,500,000	
61	Crossings for carrier pipeline of size 150 mm NB x 6.4mm Thk. of API 5L Grade X-52 in NORMAL SOIL/HARD SOIL except Rocky Strata(Soft/Hard Rock)	75	Mtr	4,400	330,000	
62	Crossings for carrier pipeline of size 150 mm NB x 6.4mm Thk. of API 5L Grade X-52 in any type of ROCKY STRATA including Soft/Hard rock	50	Mtr	9,000	450,000	
63	Note: (i) Quantity indicated above against each item is tentative and for multiple crossings for River/Canal Bodies crossing. It may increase/decrease as per site condition and approved survey details. (ii) Quantity mentioned against above items rate are breakup for different type of bed strata may encountered in River/Canal crossing which is to be crossed in a single stretch and payment shall be made based on approved strata length drilled by the contractor.					
64	Crossing of Road/Railway/Culvert etc					
65	Crossings for carrier pipeline of size 200 mm NB x 6.4mm Thk. of API 5L Grade X-52 in NORMAL SOIL/HARD SOIL except Rocky Strata(Soft/Hard Rock)	150	Mtr	4,500	675,000	
66	Crossings for carrier pipeline of size 200 mm NB x 6.4mm Thk. of API 5L Grade X-52 in any type of ROCKY STRATA including Soft/Hard rock	100	Mtr	9,000	900,000	
67	Crossings for carrier pipeline of size 150 mm NB x 6.4mm Thk. of API 5L Grade X-52 in NORMAL SOIL/HARD SOIL except Rocky Strata(Soft/Hard Rock)	200	Mtr	3,400	680,000	
68	Crossings for carrier pipeline of size 150 mm NB x 6.4mm Thk. of API 5L Grade X-52 in any type of ROCKY STRATA including Soft/Hard rock	100	Mtr	6,800	680,000	
69	Note: (i) Quantity indicated above against each item is tentative and for multiple crossings for Railway/Road/Culvert etc crossing. It may increase/decrease as per site condition and approved survey details. (ii) Quantity mentioned against above items rate are breakup for different type of bed strata may encountered in Road/Railway/Culvert crossing which is to be crossed in a single stretch and payment shall be made based on approved strata length drilled by the contractor.					
70	NOTES FOR Sl. No. 39 (Item No.: A00300)					

SCHEDULE OF RATES FOR LAYING, HDD AND ASSOCIATED WORKS OF 8" & 6" NB DIA. PIPELINE UNDER CUTTACK GA FOR CITY GAS DISTRIBUTION NETWORK (12 MONTHS ANNUAL RATE CONTRACT (ARC)) OF M/S GAIL (INDIA) LTD

Tender No.: 05/51/Q7NT/GAIL/001-i-07 , Tender ID: 2024_GAIL_180252_1

Sl. No.	Item Description	Quantity	Units	KRITA		AHR
				UNIT RATE INCLUSIVE OF ALL TAXES, DUTIES, LEVIES, FREIGHT, INSURANCE, INCLUDING INSURANCE OF FREE ISSUE MATERIALS, TAXES ON BUILDING AND OTHER CONSTRUCTION WORKERS, ETC. BUT EXCLUDING GST AS DEFINED IN B/D DOCUMENT (IN INR)	TOTAL AMOUNT INCLUSIVE OF ALL TAXES, DUTIES, LEVIES, FREIGHT, INSURANCE, INCLUDING INSURANCE OF FREE ISSUE MATERIALS, TAXES ON BUILDING AND OTHER CONSTRUCTION WORKERS, ETC. BUT EXCLUDING GST AS DEFINED IN B/D	
71	(i) Crossing width may vary as per site conditions. Bidder/Contractor/Tenderer are advised to visit the site for actual assessment of extent of crossing and to assess the maximum extent of cover which may have to be provided. Actual string length for HDD shall be as per design calculations so that pipe is not under stress as permitted by codes/ specifications. Final length of string shall be decided after decision of minimum cover requirement by concerned Authority/ Engineer-in-charge (EIC)/RCM.					
72	(ii) Payment for the hook-up of final tied-in carrier pipeline string to existing pipeline (if required) shall be made separately under Sl no. 124 (Item Code A001000) mentioned elsewhere in the SOR.					
73	(iii) Above SOR rate includes the Rate for providing end cap / blind (if required) at both the ends for carrier pipeline					
74	(iv) Insertion / Pulling of 01 no/ 02 nos of HDPE duct (as applicable in relevant SOR) and their blinding/plugging shall be in the scope of contractor and the rate for pulling is NOT included in above quoted rates. If required/Instructed by EIC/GAIL GA Incharge then it will be paid separately under relevant SOR mentioned elsewhere. Supply of HDPE duct and OFC shall be in the scope of GAIL/Client.					
75	(vi) HDD crossing of carrier pipe as well as 40 mm OFC Duct(one or two as per the instruction of EIC/GAIL GA Incharge) shall be carried out by suitably strapping together both the carrier pipe & OFC Duct and pulled together in the same drill hole at site and as per the decision of EIC/RCM, Separate payment for HDD for HDPE duct shall be paid under relevant item elsewhere in SOR .					
76	(vi) Length of the individual crossing may increase or decrease depending upon site condition / requirement , accordingly contractor shall deploy suitable or higher capacity of HDD rig at site as per the decision of EIC/RCM/GAIL GA Incharge to complete the crossing work successfully. No extra payment shall be made to contractor for deployment of higher capacity of rig.					
77	(vii) Contractor shall not perform any pipeline and crossing related activities along the ROU without specified barricading/permission of EIC/RCM/GAIL GA Incharge as per Std. Drg. and other safety measures.					
78	(viii) The above items rate shall be applicable for all locations / region/ charge area within & around the Cuttack GA)					
79	(ix) The work related to all type of survey mentioned above are covered in Sl. No. 23 (Item Code A00200) and payment shall be made under Sl. No. 23.					
80	x) Payment for carrying out liaisoning & co-ordination works for crossings as well as utility/foreign pipeline crossings (if any) and obtaining permission / NOC from these authorities including assistance in ROU opening & closing and their maintenance/ management both side of the crossings shall be made under Sl no. 131 (Item Code A001200) mentioned elsewhere in this SOR.					
81	(xi) Arrangement of all additional land required for construction, Pulling etc is in scope of contractor and no additional payment for the same shall be made.					
82	(xii) Quantity mention against each SOR item is for multiple crossing at various location with in Cuttack GA, however maximum length of the single crossing shall not exceed 1000 meters.					
83	(Xiii) Digging of Entry and exit pit for carrying out HDD as per the instruction of EIC/GAIL GA Incharge					
84	REPAIR OF DEFECT IN PIPES (NOT ATTRIBUTED TO CONTRACTOR)					
85	Repair of defects on Owner supplied linepipes of all grades and wall thickness as specified in following items, noted and recorded at the time of "receiving and taking over" by Contractor in the presence of Engineer-in-charge (EIC)/RCM					
86	Cutting and rebelling for dents in bevels exceeding 3 mm in depth for pipe sizes:					
87	Specified OD, mm	1	Nos.	1,000	1,000	
88	219.1	1	Nos.	500	500	
89	168.3					
90	Jack out of dents in bevels ranging between 1 mm and 3 mm in depth for pipe sizes:					
91	Specified OD, mm	1	Nos.	200	200	
92	219.1	1	Nos.	100	100	
93	168.3					
94	REPAIR OF COATING DEFECTS (NOT ATTRIBUTED TO CONTRACTOR)					
95	Repair of Holiday in Coating (Noted and recorded at the time of "receiving and taking over")					
96	Supply of all coating repair materials as per requirements of specification to be compatible with line pipe coating material, supply of all consumables, utilities, equipments and all manpower required, pipe cleaning and surface preparation, repairing of coating defects (resulting in holiday) and testing including all handling, transportation, etc. for line pipes, performing all works necessary for the completion of the works strictly in accordance with relevant specification and instructions of Engineer-In-Charge (EIC)/RCM. This rate shall be applicable per sq. cm of the exposed steel area.	25	Sq. Cm	500	12,500	
97	LEAK / BURST (ATTRIBUTABLE TO OWNER)					
98	All works for locating leak / burst in Company's supplied material only (occurred during hydro-static testing) including necessary repairing/replacing defective pipe lengths including cutting and out and removing the defective pipe, pre-testing and welding of replacement pipe, NDT of welds, repair and retesting of defective welds, coating/painting of replacement pipe, pretesting the replacement pipe into mainline/branch line, coating/painting of welding joints, cleanup, retesting including cost of all labour materials, consumables and performing all works in accordance with the provisions of the Contract document and as directed by Owner /Engineer-in-charge (EIC)/RCM.					

SCHEDULE OF RATES FOR LAYING, HDD AND ASSOCIATED WORKS OF 8" & 6" NB DIA. PIPELINE UNDER CUTTACK GA FOR CITY GAS DISTRIBUTION NETWORK (12 MONTHS ANNUAL RATE CONTRACT (ARC)) OF M/S GAIL (INDIA) LTD

Tender No.: 05/51/Q7NT/GAIL/001-i-07 , Tender ID: 2024_GAIL_180252_1

Sl. No.	Item Description	Quantity	Units	KRITA		AHR
				UNIT RATE INCLUSIVE OF ALL TAXES, DUTIES, LEVIES, FREIGHT, INSURANCE, INCLUDING INSURANCE OF FREE ISSUE MATERIALS, TAXES ON BUILDING AND OTHER CONSTRUCTION WORKERS, ETC. BUT EXCLUDING GST AS DEFINED IN BID DOCUMENT (IN INR)	TOTAL AMOUNT INCLUSIVE OF ALL TAXES, DUTIES, LEVIES, FREIGHT, INSURANCE, INCLUDING INSURANCE OF FREE ISSUE MATERIALS, TAXES ON BUILDING AND OTHER CONSTRUCTION WORKERS, ETC. BUT EXCLUDING GST AS DEFINED IN BID	
99	For 8" NB Line	1	Each	1,000	1,000	
100	For 6" NB Line	1	Each	500	500	
101	Note:					
102	This rate is applicable for manufacturing defects in Owner supplied material only.					
103	Leak detection, its rectification and successfully re-hydrotesting shall be carried out as per approved procedure by Contractor with a view that completion of all activity for successful hydrotesting is not inordinately extended which will hamper the overall project schedule.					
104	GAUGING (APPLICABLE FOR PRE & POST INSTALLATION HYDROSTATIC TEST) (APPLICABLE FOR STANDALONE CROSSING)					
105	As per specification and procedure approved by Engineer-in-charge (EIC)/ RCM.					
106	200 6.4 API 5L Gr. X-52 3 Layer PE Double random Coating (Externally) (approx. 11.5 m to 12.5 m)	1050	Mtr	100	105,000	
107	150 6.4 API 5L Gr. X-52 3 Layer PE Double random Coating (Externally) (approx. 11.5 m to 12.5 m)	575	Mtr	90	51,750	
108	NOTE- (i) The quantities mentioned against the above SOR items are tentative and may vary depending upon the site condition during execution stage. (ii) The total quantities mentioned against the above SOR items are for multiple/various crossings at different location within GA . (iii) Payment for above item no. shall be made only for the approved pipeline string length for HDD. (iv) The requirement of gauging before prehydrotest & after pulling of HDD section shall be carried out as per MECON specification / OISD / PNGRB and same shall be approved by Engineer-in-charge (EIC)/ RCM.					
109	POST INSTALLATION HYDROSTATIC TESTING OF PIPELINE (APPLICABLE FOR STANDALONE CROSSING)					
110	Carrying out cleaning, gauging, pigging and post installation hydrostatic testing of complete pipeline section laid by HDD method as approved by EIC/RCM to specified pressures (i.e. 1.5 times of the design pressure) for 24 hours holding period; providing all equipment, pumps, test headers, fittings, instruments, dead weight tester, pressure recorder, temperature recorder, pressure & temperature gauge etc., and services, supervision, labour, consumables, water including supply of corrosion inhibitor, air, etc. as required for successful completion of hydrotesting of pipeline to acceptance criteria as per specifications, codes, approved drawings, calculations, methods and as directed by Engineer-in-charge and provision of contract document. Complete dewatering and swabbing of the pipeline as per specification and to the entire satisfaction of the EIC/RCM.					
111	Hydrotesting at the Crossing of NALA/Water Bodies/River/Canal/Road/Railways etc (Size 8" NB)	1050	Mtr	200	210,000	
112	Hydrotesting at the Crossing of NALA/Water Bodies/River/Canal/Road/Railways etc (Size 6" NB)	575	Mtr	190	109,250	
113	Notes: i) The quantities mentioned against the above SOR items are tentative and may vary depending upon the site condition during execution stage. ii) Payment for Gauging activity mentioned above shall be made under SI no. 104 (item Code A00700) mentioned elsewhere in this SOR. iii) Quantity indicated above against each item is tentative and for multiple crossings . It may increase/decrease as per site condition and approved survey details.					
114	PRESERVATION OF PIPELINE (APPLICABLE FOR STANDALONE CROSSING)					
115	Preservation of pipeline sections and associated facilities (in event of delay in ROU acquisition, commissioning, other unforeseen reasons) including supply of nitrogen, all consumables, all equipment, man-power, etc. complete as per the requirements of specifications, other provisions of Contract document and instructions of Engineer-in-charge (EIC/RCM).					
116	By filling and pressurizing with nitrogen to a pressure of 2 bar(g) for a period of one month.					
117	Crossing of NALA/Water Bodies/River/Canal/Road/Railways etc (Size 8" NB)	1050	Mtr	100	105,000	AHR
118	Crossing of NALA/Water Bodies/River/Canal/Road/Railways etc (Size 6" NB)	575	Mtr	90	51,750	AHR
119	For every additional period of one month or part thereof					
120	Crossing of NALA/Water Bodies/River/Canal/Road/Railways etc (Size 8" NB)	1050	Mtr	10	10,500	
121	Crossing of NALA/Water Bodies/River/Canal/Road/Railways etc (Size 6" NB)	575	Mtr	8	4,600	
122	Notes: i) All accessories i.e.; required nos. of dished end caps and tappings of 3/4 inches, PG to be considered per section and the rates are inclusive in above item rate. ii) If month is partially complete, payment shall be made on prorata basis.					
123	iii) Quantity mentioned against each SOR item is for multiple crossing at various location within the GA, however maximum length of the single crossing shall not exceed 1000.					
124	FINAL HOOK-UP / TIE-IN WELDING OF CARRIER PIPELINE LAID BY HDD METHOD WITH EXISTING PIPELINE AT BOTH THE ENDS (APPLICABLE FOR STANDALONE CROSSING)					

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Sl. No.	Item Description	Quantity	Units	KRITA		AHR
				UNIT RATE INCLUSIVE OF ALL TAXES, DUTIES, LEVIES, FREIGHT, INSURANCE INCLUDING INSURANCE OF FREE ISSUE MATERIALS, TAXES ON BUILDING AND OTHER CONSTRUCTION WORKERS, ETC. BUT EXCLUDING GST AS DEFINED IN B/D DOCUMENT (IN INR)	TOTAL AMOUNT INCLUSIVE OF ALL TAXES, DUTIES, LEVIES, FREIGHT, INSURANCE INCLUDING INSURANCE OF FREE ISSUE MATERIALS, TAXES ON BUILDING AND OTHER CONSTRUCTION WORKERS, ETC. BUT EXCLUDING GST AS DEFINED IN B/D	
125	Hookup / Tie-in welding of carrier pipeline laid by HDD method with existing pipeline at both the ends as per welding description mentioned in Sl no. 2 (Item Code A00100)					
126	Crossing of NALA/Water Bodies/River/Canal/Road/Railways etc (Size 8" NB/6"NB)	150	Inch Dia	1,500	225,000	
127	Notes: i) Hook -up work with existing pipeline on both side of HDD crossings. ii) Quantity mentioned against above items rate are tentative & may vary depending upon site condition. iii) NDT by X-Ray/Gamma Ray for hook-up Joints including application of joint coating sleeve & backfilling,restoration..etc as per specification is part of above item . Bidder have to quote accordingly.					
128	VIDEOGRAPHY & PHOTOGRAPHY (APPLICABLE FOR STANDALONE CROSSING)					
129	Carrying out the videography and photography of all the HDD construction activities,i.e. Stringing, Welding, Radiography,Pre hydrotesting, Joint Coating, all HDD activities, post hydrotesting, restoration etc performing all works as per specification of EIC/RCM and other provision of contract document.					
130	Crossing of NALA/Water Bodies/River/Canal/Road/Railways etc (Size 8" NB/6"NB)(Payment will be made on per crossing basis)	1	Each	1,000	1,000	
131	PIPELINE LAYING LIAISONING & CO-ORDINATION FOR ALL TYPE OF CROSSINGS INCLUDING UTILITY CROSSING AND OBTAINING PERMISSION / NOC FROM THE STATUTORY / CONCERNED AUTHORITIES. ASSISTANCE IN ROU OPENING & CLOSING AND THEIR MAINTAINENCE/ MANAGEMENT. (APPLICABLE FOR STANDALONE CROSSING)					
132	Submitting request for (after obtaining the letter from client) permission , follow up , assisting in site inspections / route survey / site report making/making site inspection drawings , submitting at designated offices , resubmission after correction , modification if required , soft and hard copy in nos. as required /if required in sizes , and collecting permission from the statutory authorities including NHAI , PWD , Railways , Irrigation , Forest , Municipal Corporation, District administration, River Authority,SEZ etc. Obtaining work permits /NOC from various statutory authorities having jurisdiction before execution of the work and complying with all stipulations /conditions/recommendations of the said authorities. Only statutory fees shall be paid by the owner. Assistance in required length and width/restricted width of ROU opening & closing and their maintainence/ management both side of the crossings.					
133	Crossing of NALA/Water Bodies/River/Canal/Road/Railways etc (Size 8" NB/6"NB) in Cultack GA (Payment will be made on per crossing basis)	4	Each	100,000	400,000	
134	Sub-Total Section A					
135	SECTION-B [MAINLINE WORKS]					
136	CARBON STEEL PIPES					
137	PIPELINE LAYING / INSTALLATION					
138	"Receiving and taking over" as defined in the specifications, handling, loading, transportation and unloading of Owner supplied 3-Layer PE coated and bare linepipes 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 linepipes at the time of taking over, laying/ installation of coated linepipes as per specification wherever required depending on site condition including execution of all works, "taking over", handling , including loading and unloading, transportation of Owner supplied materials other than linepipe from Owner's designated place (s) of issue to work site, arrangement of all additional lands required for Contractor's storage, fabrication, access for construction, procurement and supply of all materials (except Owner supplied materials), 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, including but not limited to carrying out the following works:					
139	Surveying of route and detours required at the time of execution including marking the same in topographical sheet, preparation of construction drawings showing survey details, and submit same to Owner for review / approval.					
140	Staking and installation of construction markers, clearing, fencing, grubbing, fulfilling all the requirements of various statutory/ environment authorities to the entire satisfaction of concerned authorities, grading / cleaning of work area. Shifting of all obstruction within the ROU/ pipeline corridor as per Pipeline route alignment viz. electrical lines/ poles, telephone line / poles, foreign pipeline, etc. co-ordination with concerned authorities and obtain permissions from these authorities.					
141	Barricading the pipeline construction area prior to execution of the works as per drawings enclosed with tender document and to the entire satisfaction of Owner / Engineer-in-charge.					
142	Trenching to all depths and to a width in all type of soil strata including any type of rocky strata to accommodate the pipeline and/or optical fiber cable/cable duct during lowering & backfilling as specified in scope document and as per the relevant standards, specifications, etc by excavation in all types of soils providing depth of padding in trench bed & above and around the pipeline HDPE duct and OFC as required with sand / graded earth approved by Engineer-in Charge. Dewatering of trenches if required as per site condition. Padding & Backfilling of the trench after lowering the pipeline.					

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143	Carrying out repairs of pipe defects/ replacement in case of irreparable defects and repairs of defects of pipe coating not attributable to Owner including defects/ damages occurring during transportation/ handling after taking over from Owner by Contractor including management of their own dump site, if required. Thorough internal cleaning of all pipes by suitable methods to remove debris, shots, grits etc. to the satisfaction of Engineer-in- Charge;					
144	Stringing of line pipes along pipeline trench / ROU provided on sand/soft soil bags including all supplies, manpower & machinery etc.					
145	Aligning, bending, cutting and bevelling (as required) of pipes for welding and field adjustments including pipe fittings, welding, carrying out non-destructive testing of welds as required including 100% radiography by X-ray either by internal source or external source based on site conditions/front availability and in this regard decision of EIC shall be final and binding to the contractor (In case placement/installation of X-ray equipment is not feasible, in that case Gamma ray may be permitted as per decision of Engineer In-Charge (EIC) based on site conditions) and providing all requisite equipment, labour, supervision, materials, films, consumables, all facilities and personnel to process, develop, examine and interpret radiographs and other tests as required, carrying out repairs of weld joints found defective by Engineer-in-Charge, carrying out re-radiography and other tests as required on repaired joints and NDT of rebevelled area as mentioned in SCC & Particular Jobs Specification					
146	Installation of carrier pipe at all crossings including roads/ cartrack / pathway / drain / canals/ nala/ water crossings etc. by open cut after prehydrotest of the section, if required, including re-storation of the banks to original conditions (in case of waterbody crossings) duly accepted by Competent Authority as defined as per specification (except crossings by HDD method, cased crossing, open cut convention method that are specifically covered separately elsewhere in the SOR).					
147	Coating of field weld joints, long radius bends (R=3D), elbows, buried fittings and valves etc. including supply of coating materials etc. (i.e. heat shrinkable sleeves and high build epoxy etc.) as per PJS & Technical Specification compatible with 3 layer PE coating of the line pipe. Coating materials shall be supplied with prior approval of Engineer-in-charge.					
148	Supply of LR Bend (R=3D) of material equivalent to pipe material grade (API 5L Grade X-52 to X-56) and of all size, all thickness, all angle etc. suitable to connect / fit with intended steel pipeline to be laid, as per specification and their complete installation with steel pipeline network of all size & thickness as per specification wherever required depending on site condition.					
149	Installation / lowering the pipeline in trench to required depth as per PJS, Technical Specification & drawings including laying of HDPE duct and providing required padding over and around the pipeline with sand/graded material approved by Engineer-In-Charge (in rocky areas) including padding around pipeline with suitable soil duly approved by EIC. Supply of padding material, backfilling and its compaction to the satisfaction of concerned authorities with excavated earth / borrowed select soil including supply of borrowed select soil duly approved by EIC before backfilling and make ready for restoration to be done by Owner / concerned authorities.					
150	Installation of warning tape / mat on the entire length of the pipeline as per specification. Warning tape/mat should have anti rodent properties.					
151	Taking DGPS coordinates of each weld joint (including tie in joints) and including the same in field inspection report. The coordinate must have X,Y,Z (ground level) along with depth of cover.					
152	Supply and installation of slope breakers, wherever required or, as directed by Owner / Engineer-in-charge.					
153	Crossing of all-foreign pipeline / HT line / cable / any other utilities etc. with necessary concrete / PVC protection including coordination with all agencies and obtaining NOC.					
154	Installation of bank protection & associated works along with supply of all types of backfill materials etc. duly approved by EIC for pipeline trench and banks falls under minor water body crossing as per technical specification & Std. Drg., wherever required or, as directed by Owner / EIC.					
155	Training and diversions of streams in steep slope area, wherever required.					



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156	Carrying out air cleaning, gauging, pigging, flushing, cleaning and hydrostatic testing of complete pipeline, supply of required quantity of corrosion inhibitor, if required including pre-testing of designated sections complete as per specification and approved by Engineer-in-charge 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 not attributable to contractor shall be paid separately as per other item of schedule of rate), re-testing after rectification, dewatering after successful completion of hydrotesting of entire section and as approved by Engineer-in-Charge. Note : 1. Leak detection, its rectification and successfully re-hydrotesting shall be carried out by Contractor with a view that completion of all activity for successful hydrotesting should not be inordinately extended / delayed , which will hamper the overall project schedule. Further, no extra payment claim shall be entertained for re-hydrotesting, leak detection and their rectifications if defects found attributable to Contractor. 2. Payment for hydrostatic testing activity mentioned above shall be made under Sl. no. 238 (Item Code B001100) mentioned elsewhere in this SOR. 3. Payment for Gauging activity mentioned above shall be made under Sl. no. 233 (Item Code					
157	All tie-in, including the tie-in(s) of the pipeline with the adjacent sections of pipeline including cutting of test header, rebeveling as required, radiography and other NDT examination, joint coating as per specification.					
158	Final clean-up & restoration of right-of-use or area disturbed by contractor including obtaining NOC from respective land owner and statutory authorities during their construction activities for laying of pipeline works and disposal of debris and returning all surplus material to designated disposal areas / storage yard as and backfilling of trench and compaction of the same as per satisfaction of Owner and / Or as directed by Engineer-in-charge.					
159	Carrying out all temporary, ancillary, auxiliary works and all incidental works required to make the pipeline ready for pre-commissioning.					
160	Installation of Sectionalizing Valves, Tap Off and other fittings along the pipeline within pit/without pit will be included in this SOR Rates (This is treated as under ground work along the pipeline at that level)					
161	Hook-up work with existing pipelines.					
162	Obtaining work permits/ NOC from various statutory authorities having jurisdiction, before and after execution of the work, and complying with all stipulation/conditions/recommendation of the said authorities.					
163	Preparation of as-built drawings, pipe-book and other records as specified in the specifications. SOR shall be read in conjunction with job specific requirements, specifications, standards, drawings and other provision of contract document. All above works related to line pipe laying and installation for buried pipeline are as per following details given below:					
164	Installation of Coated Line Pipes as per following details:					
165	Specified dia Thk (mm) Material Coating Type Length of each pipe (mm) NB					
166	200 6.4 API 5L Gr. X-52 3 Layer PE Double random Coating (Externally) (approx. 11.5 m to 12.5 m) NORMAL SOIL/HARD SOIL except Rocky Strata (Soft/Hard Rock)	550	Mtr	2,000	1,100,000	
167	200 6.4 API 5L Gr. X-52 3 Layer PE Double random Coating (Externally) (approx. 11.5 m to 12.5 m) any type of ROCKY STRATA including Soft/Hard rock	250	Mtr	3,000	750,000	
168	150 6.4 API 5L Gr. X-52 3 Layer PE Double random Coating (Externally) (approx. 11.5 m to 12.5 m) NORMAL SOIL/HARD SOIL except Rocky Strata (Soft/Hard Rock)	300	Mtr	1,500	450,000	
169	150 6.4 API 5L Gr. X-52 3 Layer PE Double random Coating (Externally) (approx. 11.5 m to 12.5 m) any type of ROCKY STRATA including Soft/Hard rock	100	Mtr	2,500	250,000	

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				UNIT RATE INCLUSIVE OF ALL TAXES, DUTIES, LEVIES, FREIGHT, INSURANCE, INCLUDING INSURANCE OF FREE ISSUE MATERIALS, TAXES ON BUILDING AND OTHER CONSTRUCTION WORKERS, ETC. BUT EXCLUDING GST AS DEFINED IN BID DOCUMENT (IN INR)	TOTAL AMOUNT INCLUSIVE OF ALL TAXES, DUTIES, LEVIES, FREIGHT, INSURANCE INCLUDING INSURANCE OF FREE ISSUE MATERIALS, TAXES ON BUILDING AND OTHER CONSTRUCTION WORKERS, ETC. BUT EXCLUDING GST AS DEFINED IN BID	
170	Notes : 1. This item rate is applicable for complete work of laying of underground pipelines as per Schematic Route Diagrams/route sketch including installation of aboveground station approach pipeline upto insulating joint. The lengths of pipelines are tentative and may vary depending upon site conditions. 2. Rate for laying of OFC & duct shall be quoted in relevant Schedule of Rates (SOR) of Telecom works, hence not to be included in Pipeline Laying works. Supply of HDPE duct and OFC shall be in the scope of GAIL/Client. 3. The above item rate is exclusive of crossings by HDD, (which are covered separately in relevant SOR items). For other crossings, it is deemed to be inclusive in above item rate. 4. The above rate shall be exclusive of hydrotesting of complete pipeline including hydrotesting of all crossing sections along-with the mainline. However, payment for pre-testing if required, are inclusive in above items rate. 5. Payment for Preparation of as-built drawings, pipe-book and other records as specified in the specifications is to be covered in this SOR rate. 6. Contractor shall return all surplus material to designated storage yard as mentioned in Annexure-2 to SCC, as directed by Engineer-In-Charge. 7. The quantities mentioned above are tentative and may increase or decrease depending upon the site conditions/requirements. Items except above are covered separately. 8. Execution of pipeline laying in rocky starta shall be jointly recorded. 9. Bifurcation of Soil & Rocky starta shall be done based on the equipments used in trenching the pipeline section. For Rocky starta contractor have to use of rock breaking tool / rock hammer or other equivalent tools for preparation of trench with due approval of EIC. Supply and installation of padding materials (i.e, sand/soft soil) are inclusive in above items rate. Bidder has to quote accordingly. 10. Owner supplied 3 LPE Line Pipe & Bare Pipe required for pipeline laying activity shall be shifted from owner designated store located within Cuttack GA and payment are inclusive in above items rate. Bidder has to quote accordingly.					
171	11. Supply of all valves, flanges, fittings, assorted pipes, barred tees & insulating Joints, etc. if required for piping works shall be paid by separate item mentioned elsewhere in SOR. 12. In above item, backfilling of pipeline trench by borrowed select soil duly approved by Owner / EIC shall be paid by separate item mentioned elsewhere in the SOR. 13. Rate for providing end cap / blind (if required) at both the ends for carrier pipeline as per specification is included in above quoted rates 15. The rates shall be applicable for all locations / region/ charge area within & around the GA. 16. Contractor shall ensure that no tree/plant cutting shall be carried out during Pipe Line Laying operations. Trenching shall be carried out manually if needed, so as to ensure no damage to plant/tree/OFC /water pipe line /foreign pipeline/telephone line/sewage line/electric cable and other under ground utilities. 17. Payment for items above under pipeline laying in all type of Rocky strata including hard rock of single piece exceeding 1.5 meter in any direction within the trench dimension with respect to length, width & depth and removal only by pneumatic chisel/ drill/ rock-breaker is inbuilt in item rate. Trenching in rocky starta shall be done by rock breaking tool / rock hammer. Supply and installation of padding materials (i.e, sand / soft soil) shall be done as per direction of EIC. Bidder to quote accordingly. 18. Bidder has to familiarise himself the entire pipeline route and all locations /region/ charge area within the GA and ascertain all type of eventuality/uncertainty before quoting their bid. 19. Payment for carrying out liaisoning & co-ordination utility/foreign pipeline crossings (if any) and obtaining permission / NOC from these authorities including assistance in ROU opening & closing and their maintenance/ management both side of the crossings shall be made under Sl. no. 263 (Item Code B001400) mentioned elsewhere in this SOR. 20. Crossings encounters in pipeline route with width of 6 meter & below shall be executed through above item rate, however crossings more than 6.0 meter shall be payable through crossing through HDD item available else where in SOR.					
172	PIPELINE LAYING / INSTALLATION BY HDD					
173	Complete work of laying of pipeline in restricted ROU along with adjacent road/nala (if minor road/nala falling under the laying profile and not considered under separate crossing) with two no. of HDPE duct for OFC by HDD method including "Receiving and taking over" owner supplied 3LPE coated line pipes from owner's designated place to issue/dump site(s) and transportation to contractor's stock yard/work site including all handling, loading, unloading, aligning etc. supply of all contractor supplied material including consumables, manpower, equipment, other resources to work site(s) and acquiring the required land for storage. Execution of, but not limited to, following works in accordance with specifications and instruction of engineer-in-charge and as per all provision of Contract Document.					
174	Pre-construction survey, necessary cover required over the carrier pipeline, based on site visit, collection of data (if required) from concerned Authority including design and detail engineering and making of drawings for getting their approval from concerned Authority/Engineer-in-charge, getting work permit/NOC for utilities crossings (if any) encountered prior to start the execution of work.					
175	Drilling to required depth from top of ground (min 2.0 mtrs.) including maintenance of drill hole in all types of soil including pebbles, cobbles, boulders, structures etc. and all types of rocky starta, all depth to accommodate the pipeline at all conditions encountered by approved HDD methods for providing minimum cover specified in code/specification or the actual depth as decided by concerned authority, whichever is more.					

Tender No.: 05/51/Q7NT/GAIL/001-i-07 , Tender ID: 2024_GAIL_180252_1

Sl. No.	Item Description	Quantity	Units	KRITA		AHR
				UNIT RATE INCLUSIVE OF ALL TAXES, DUTIES, LEVIES, FREIGHT, INSURANCE INCLUDING INSURANCE OF FREE ISSUE MATERIALS, TAXES ON BUILDING AND OTHER CONSTRUCTION WORKERS, ETC BUT EXCLUDING GST AS DEFINED IN B/D DOCUMENT (IN INR)	TOTAL AMOUNT INCLUSIVE OF ALL TAXES, DUTIES, LEVIES, FREIGHT, INSURANCE INCLUDING INSURANCE OF FREE ISSUE MATERIALS, TAXES ON BUILDING AND OTHER CONSTRUCTION WORKERS, ETC BUT EXCLUDING GST AS DEFINED IN B/D	
176	Laying of the pipeline by the approved HDD method including pipeline string preparation, welding, testing, 100% radiography by X-ray, welding repair and retest, coating of field joints with special type Dirax Heat Shrink Sleeve or equivalent (including supply of coating material) and repair of pipeline coating with special PERP-60E repair patch or equivalent material (including supply of repair patch) as per specification, pre-hydrotest of complete strings made for laying etc.					
177	Backfilling of the ditch/trench including restoration and clean-up of area, disposal of drilling fluid & waste etc. to the satisfaction of Engineer-in-charge and/or as directed by concerned Authority.					
178	Carrying out cleaning, gauging, water filling, pre-hydrotesting, of complete pipeline string in one section/ test sections as approved by EIC/RCM to specified test pressures (i.e.1.5 times of Design pressure) for 4 hours hold period; providing all equipment, pumps, test headers, fittings, pressure & temperature instruments etc., and services, supervision, labour, consumables, water, air, etc. as required; detection of leaks, if any occurred during pre-hydrotesting, attributable to Contractor and rectification of defects, re-testing after rectification with due approval of Owner, successful completion of pre-hydrotesting including dewatering of pipeline to acceptance criteria defined in the specifications. Supply of required quantity of corrosion inhibitor, if required for pre-testing of designated sections complete as per specification and approved by Engineer-in-charge (EIC)/ RCM. Note : 1. Leak detection, its rectification and successfully re-hydrotesting shall be carried out by Contractor with a view that completion of all activity for successful pre-hydrotesting should not be inordinately extended / delayed , which will hamper the overall project schedule. Further, no extra payment claim shall be entertained for re-hydrotesting, leak detection and their rectifications if defects found attributable to Contractor. 2. Payment for Gauging activity mentioned above shall be made under Sl. no. 233 (Item Code B001000) mentioned elsewhere in this SOR. 3. Payment for Post installation of hydrostatic testing activity shall be made under Sl. no. 238 (Item Code B01100) mentioned elsewhere in this SOR.					
179	Supply of HDPE duct and OFC shall be in the scope of GAIL/Client					
180	Digging of Entry and exit pit for carrying out HDD as per the instruction of EIC/GAIL GA Incharge					
181	Installation/laying of Coated Line Pipes as per following details:					
182	Specified dia Thk (mm) Material Coating Type Length of each pipe (mm) NB					
183	200 6.4 API 5L Gr. X-52 3 Layer PE Double random Coating (Externally) (approx. 11.5 m to 12.5 m) NORMAL SOIL/HARD SOIL STRATA except Rocky Strata(Soft/Hard Rock)	2000	Mtr	4,500	9,000,000	
184	200 6.4 API 5L Gr. X-52 3 Layer PE Double random Coating (Externally) (approx. 11.5 m to 12.5 m) any type of ROCKY STRATA including Soft/Hard rock	700	Mtr	9,000	6,300,000	
185	150 6.4 API 5L Gr. X-52 3 Layer PE Double random Coating (Externally) (approx. 11.5 m to 12.5 m) NORMAL SOIL/HARD SOIL STRATA except Rocky Strata(Soft/Hard Rock)	900	Mtr	3,400	3,060,000	
186	150 6.4 API 5L Gr. X-52 3 Layer PE Double random Coating (Externally) (approx. 11.5 m to 12.5 m) any type of ROCKY STRATA including Soft/Hard rock	400	Mtr	6,800	2,720,000	
187	Note: (i) Pipeline length are tentative and for various crossings/site locations wherein laying through open cut is not feasible. Tenderer are advised to visit the site for actual assessment of extent of laying and to access the maximum extent of cover which may have to be provided. Actual string length for HDD shall be as per design calculations so that pipe is not under stress as permitted by codes/ specifications. Final length of string shall be decided after decision of minimum cover requirement by concerned Authority/ Engineer-in-charge.					
188	(ii) Payment for the length of final tied-in carrier pipeline string are inclusive in the above item rate and no separate payment shall be made under other item mentioned elsewhere.					
189	(iii) The quantities mentioned above are tentative and may increase or decrease depending upon the site conditions/requirements. The quantity indicated against each item are for multiple shots and shall be as per requirement at site for laying at different locations.					
190	(iv) Contractor have to use rock drilling tool and all other accessories as required to make drill hole in rocky strata.					
191	(iv) Insertion / Pulling of 01 no/02 nos of HDPE duct (as applicable in relevant SOR) and their blinding/plugging shall be in the scope of contractor and the rate for pulling is NOT included in above quoted rates. If required/Instructed by EIC/GAIL GA Incharge then it will be paid separately under relevant SOR mentioned elsewhere. Supply of HDPE duct and OFC shall be in the scope of GAIL/Client					
192	(v) HDD crossing of carrier pipe as well as 40 mm OFC Duct(one or two as per the instruction of EIC/GAIL GA Incharge) shall be carried out by suitably strapping together both the carrier pipe & OFC Duct and pulled together in the same drill hole at site and as per the decision of EIC/RCM, Separate payment for HDD for HDPE duct shall be paid under relevant item elsewhere in SOR .					
193	(vi) Contractor shall not perform any pipeline related activities along the ROU without specified barricading/permission of EIC/RCM as per Std. Drg. and other safety measures.					

Tender No.: 05/51/Q7NT/GAIL/001-i-07 , Tender ID: 2024_GAIL_180252_1

Sl. No.	Item Description	Quantity	Units	KRITA		AHR
				UNIT RATE INCLUSIVE OF ALL TAXES, DUTIES, LEVIES, FREIGHT, INSURANCE, INCLUDING INSURANCE OF FREE ISSUE MATERIALS, TAXES ON BUILDING AND OTHER CONSTRUCTION WORKERS, ETC. BUT EXCLUDING GST AS DEFINED IN BID DOCUMENT (IN INR)	TOTAL AMOUNT INCLUSIVE OF ALL TAXES, DUTIES, LEVIES, FREIGHT, INSURANCE, INCLUDING INSURANCE OF FREE ISSUE MATERIALS, TAXES ON BUILDING AND OTHER CONSTRUCTION WORKERS, ETC. BUT EXCLUDING GST AS DEFINED IN BID	
194	(vii) The above items rate shall be applicable for all locations / region/ charge area within & around the GA.					
195	viii) Payment for carrying out liaisoning & co-ordination works for utility/foreign pipeline crossings (if any) and obtaining permission / NOC from these authorities including assistance in ROU opening & closing and their maintenance/ management both side of the crossings shall be made under Sl.no. 263 (item Code B001400) mentioned elsewhere in this SOR.					
196	ix). Crossings encounters in pipeline route with width of 6 meter & higher shall be executed through above item rate.					
197	BORROWED SELECT SOIL FOR BACKFILLING					
198	Additional work over and above item no.: B00100 (Sl. No.137) for supply of specified and approved quality of borrowed local soft graded soil / sand in place of available excavated material and / or other suitable soil as per applicable standards / specifications, including backfilling of excavated trench for specified length after laying and padding of pipeline, including local transportation of such special backfill material over all distances, complete.	30	M ³	300	9,000	
199	SUPPLY OF WARNING MAT Supply of warning mat for pipeline as per the technical specification enclosed in the bid document. The material of warning mat shall be of high density polyethylene and non biodegradable type. It shall have non-toxic and anti rodent properties.					
200	8" NB Pipeline	800	Mtr	60	48,000	
201	6" NB Pipeline	400	Mtr	45	18,000	
202	EXCAVATION BEYOND 1.5M DEPTH IN CASE OF CROSSING OF UTILITIES/ DRAIN/ CULVERTS ETC. THROUGH OPEN CUT UPTO THE FOLLOWING DEPTH (INCLUDING RESTORATION OF THE DAMAGED AREA TO ITS ORIGINAL CONDITION AND SATISFACTION OF THE ENGINEER-IN-CHARGE / CONCERNED AUTHORITIES) .THE OTHER ACTIVITIES ARE AS PER SL no. 137 (Item Code B00100)					
203	In Normal Surface / Unprepared surface (Katcha Surface)					
204	Deeper than 1.5 m & upto 2.5 m below existing level (for 200/150/100 mm NB Pipeline)	10	Mtr	500	5,000	
205	Deeper than 2.5 m & upto 4.5 m below existing level (for 200/150/100 mm NB Pipeline)	5	Mtr	700	3,500	
206	Note: (i) Quantities indicated in tentative and for various locations.					
207	(ii) Prior permission from EIC is required before execution of above item.					
208	REPAIR OF DEFECT IN PIPES (NOT ATTRIBUTED TO CONTRACTOR)					
209	Repair of defects on Owner supplied linepipes of all grades and wall thickness as specified in following items, noted and recorded at the time of "receiving and taking over" by Contractor in the presence of Engineer-in-charge.					
210	Cutting and rebeveling for dents in bevels exceeding 3 mm in depth for pipe sizes:					
211	Specified OD, mm					
212	219.1	1	Nos.	1,000	1,000	
213	168.3	1	Nos.	1,000	1,000	AHR
214	Jack out of dents in bevels ranging between 1 mm and 3 mm in depth for pipe sizes:					
215	Specified OD, mm					
216	219.1	1	Nos.	1,000	1,000	AHR
217	168.3	1	Nos.	1,000	1,000	AHR
218	REPAIR OF COATING DEFECTS (NOT ATTRIBUTED TO CONTRACTOR)					
219	Repair of Holiday in Coating (Noted and recorded at the time of "receiving and taking over")					
220	Supply of all coating repair materials as per requirements of specification to be compatible with line pipe coating material, supply of all consumables, utilities, equipments and all manpower required, pipe cleaning and surface preparation, repairing of coating defects (resulting in holiday) and testing including all handling, transportation, etc. for line pipes, performing all works necessary for the completion of the works strictly in accordance with relevant specification and instructions of Engineer-In-Charge. This rate shall be applicable per sq. cm of the exposed steel area of pipeline.	20	Sq. Cm	500	10,000	
221	PERMANENT MARKERS					
222	Supply, fabrication and installation of all types of permanent markers along the route including all associated civil works such as excavation in all types of soil, construction in all types of soil, construction of pedestals and grouting with concrete, clearing, supply and application of approved colour and quality of primer and paint, stencil letter cutting for numbers, direction, change etc., restoration of area to original condition and performing all works as per drawing, specification and instruction of engineer-in-charge.					
223	Pipeline RCC boundary / route marker as per drawing	100	Nos.	900	90,000	
224	Pipeline warning markers with post & foundations	75	Nos.	6,000	450,000	
225	Pipeline direction marker with post & foundations	5	Nos.	7,000	35,000	
226	LEAK / BURST (ATTRIBUTABLE TO OWNER)					
227	All works for locating leak / burst in Company's supplied material only (occurred during hydro-static testing) including necessary repairing/replacing defective pipe lengths including cutting and out and removing the defective pipe, pre-testing and welding of replacement pipe, NDT of welds, repair and retesting of defective welds, coating/painting of replacement pipe, pretesting the replacement pipe into mainline/branch line, coating/painting of welding joints, cleanup, retesting including cost of all labour materials, consumables and performing all works in accordance with the provisions of the Contract document and as directed by Owner /Engineer-in-charge/ Engineer in-charge					
228	For 8" NB Line	1	LS	1,000	1,000	
229	For 6" NB Line	1	LS	1,000	1,000	

SCHEDULE OF RATES FOR LAYING, HDD AND ASSOCIATED WORKS OF 8" & 6" NB DIA. 11 LINE UNDER CONSTRUCTION OF DISTRIBUTION NETWORK (12 MONTHS ANNUAL RATE CONTRACT (ARC)) OF M/S GAIL (INDIA) LTD

Tender No.: 05/51/Q7NT/GAIL/001-i-07 , Tender ID: 2024_GAIL_180252_1

Sl. No.	Item Description					Quantity	Units	KRITA		AHR
								UNIT RATE INCLUSIVE OF ALL TAXES, DUTIES, LEVIES & FREIGHT, INSURANCE, INCLUDING INSURANCE OF FREE ISSUE MATERIALS, TAXES ON BUILDING AND OTHER CONSTRUCTION WORKERS, ETC. BUT EXCLUDING GST AS DEFINED IN BID DOCUMENT (IN INR)	TOTAL AMOUNT INCLUSIVE OF ALL TAXES, DUTIES, LEVIES, FREIGHT, INSURANCE, INCLUDING INSURANCE OF FREE ISSUE MATERIALS, TAXES ON BUILDING AND OTHER CONSTRUCTION WORKERS, ETC. BUT EXCLUDING GST AS DEFINED IN BID	
230	Note:									
231	(i) This rate is applicable for manufacturing defects in Owner supplied material only.									
232	(ii) Leak detection, its rectification and successfully re-hydrotesting shall be carried out as per approved procedure by Contractor with a view that completion of all activity for successful hydrotesting is not inordinately extended which will hamper the overall project schedule.									
233	GAUGING (APPLICABLE FOR MAIN STEEL PIPELINE HYDROSTATIC TEST, PRE & POST INSTALLATION HYDROSTATIC TEST FOR CROSSINGS) (Excluding standalone crossing)									
234	As per specification and procedure approved by Engineer-in-charge (EIC)/ RCM.									
235	200	6.4	API 5L Gr. X-52	3 Layer PE	Double random Coating (Externally) (approx. 11.5 m to 12.5 m)	3500	Mtr	100	350,000	
236	150	6.4	API 5L Gr. X-52	3 Layer PE	Double random Coating (Externally) (approx. 11.5 m to 12.5 m)	1700	Mtr	100	170,000	
237	NOTE- (i) The quantities mentioned against the above SOR items are tentative and may vary depending upon the site condition during execution stage. (ii) The total quantities mentioned against the above SOR items are applicable for main steel pipeline and multiple/various crossings at different location within GA. (iii) Payment for above item shall be made only for the certified executed length of pipeline by Engineer-in-charge (EIC)/ RCM. (iv) The requirement of gauging of main steel pipeline, prehydrotest & after pulling of HDD section shall be carried out as per MECON specification / OISD / PNGRB and same shall be approved by Engineer-in-charge (EIC)/ RCM.									
238	HYDROSTATIC TESTING OF BURIED PIPELINE (Excluding standalone crossing)									
239	Carrying out cleaning, gauging, pigging and hydrostatic testing of complete pipeline section laid by HDD/Open cut method as approved by EIC/RCM to specified pressures (i.e. 1.5 times of the design pressure) for 24 hours holding period; providing all equipment, pumps, test headers, fittings, instruments, dead weight tester, pressure recorder, temperature recorder, pressure & temperature gauge etc., and services, supervision, labour, consumables, water including supply of corrosion inhibitor, air, etc. as required for successful completion of hydrotesting of pipeline to acceptance criteria as per specifications, codes, approved drawings, calculations, methods and as directed by Engineer-in-charge and provision of contract document. Complete dewatering and swabbing of the pipeline as per specification and to the entire satisfaction of the EIC/RCM.									
240	200	6.4	API 5L Gr. X-52	3 Layer PE	Double random Coating (Externally) (approx. 11.5 m to 12.5 m)	3500	Mtr	100	350,000	
241	150	6.4	API 5L Gr. X-52	3 Layer PE	Double random Coating (Externally) (approx. 11.5 m to 12.5 m)	1700	Mtr	100	170,000	
242	Notes: i) The above quantity is not for a single section but for no. of sections for pipeline laying. ii) The quantities mentioned against the above SOR items are tentative and may vary depending upon the site condition during execution stage. iii) Payment for Gauging activity mentioned above shall be made under Sl no. 233 (Item Code B001000) mentioned elsewhere in this SOR.									
243	Drying by Vacuum drying / Super air drying / Super dry nitrogen									
244	Complete work of carrying out drying by Vacuum drying / Super air drying / Super dry nitrogen & commissioning of pipeline section including supply of manpower, equipments & consumables (nitrogen required for purging etc.), materials for all temporary works and performing all associated works, complete as per the relevant specifications, other provisions of Contract document and instructions of Engineer-in-Charge.									
245	200	6.4	API 5L Gr. X-52	3 Layer PE	Double random Coating (Externally) (approx. 11.5 m to 12.5 m)	3500	Mtr	50	175,000	
246	150	6.4	API 5L Gr. X-52	3 Layer PE	Double random Coating (Externally) (approx. 11.5 m to 12.5 m)	1700	Mtr	50	85,000	
247	Note: The quantities mentioned above for various pipeline sections. Final methodology of drying shall be decided by EIC at the time of execution.									
248	COMMISSIONING ASSISTANCE / COMMISSIONING FOR UNDERGROUND PIPELINE LENGTH AND STATIONS									
249	200	6.4	API 5L Gr. X-52	3 Layer PE	Double random Coating (Externally) (approx. 11.5 m to 12.5 m)	3500	Mtr	100	350,000	AHR
250	150	6.4	API 5L Gr. X-52	3 Layer PE	Double random Coating (Externally) (approx. 11.5 m to 12.5 m)	1700	Mtr	1,000	1,700,000	AHR
251	Note:- The above rates are applicable for no. of pipeline sections.									
252	PRESERVATION OF PIPELINE									
253	Preservation of pipeline sections and associated facilities (in event of delay in ROU acquisition/statutory permissions, commissioning, other unforeseen reasons) including supply of nitrogen, all consumables, all equipment, man-power, etc. complete as per the requirements of specifications, other provisions of Contract document and instructions of Engineer-in-charge.									
254	By filling and pressurizing with nitrogen to a pressure of 2 bar(g) for a period of one month.					3500	Mtr	50	175,000	AHR
255	For 8" NB Line					1700	Mtr	40	68,000	AHR
256	For 6" NB Line									
257	For every additional period of one month or part thereof					3500	Mtr	10	35,000	
258	For 8" NB Line					1700	Mtr	9	15,300	
259	For 6" NB Line									

Tender No.: 05/51/Q7NT/GAIL/001-I-07 , Tender ID: 2024_GAIL_180252_1

Sl. No.	Item Description	Quantity	Units	KRITA		AHR
				UNIT RATE INCLUSIVE OF ALL TAXES, DUTIES, LEVIES, FREIGHT, INSURANCE, INCLUDING INSURANCE OF FREE ISSUE MATERIALS, TAXES ON BUILDING AND OTHER CONSTRUCTION WORKERS, ETC. BUT EXCLUDING GST AS DEFINED IN BID DOCUMENT (IN INR)	TOTAL AMOUNT INCLUSIVE OF ALL TAXES, DUTIES, LEVIES, FREIGHT, INSURANCE, INCLUDING INSURANCE OF FREE ISSUE MATERIALS, TAXES ON BUILDING AND OTHER CONSTRUCTION WORKERS, ETC. BUT EXCLUDING GST AS DEFINED IN BID	
260	Notes: i) The above length is not for a single section but for no. of sections.					
261	ii) All accessories i.e. Two nos. of dished end caps and two nos. tappings of 3/4 inches, PG to be considered per section and rate for the same shall be quoted by bidder under this item.					
262	iii) If month is partially complete, payment shall be made on prorata basis.					
263	PIPELINE LAYING LIAISONING & CO-ORDINATION (INCLUDING UTILITY CROSSING) AND OBTAINING PERMISSION / NOC FROM THE STATUTORY / CONCERNED AUTHORITIES. ASSISTANCE IN ROU OPENING & CLOSING AND THEIR MAINTAINENCE/ MANAGEMENT. (EXCLUDING STANDALONE CROSSINGS)					
264	Submitting request for (after obtaining the letter from client) permission, follow up, assisting in site inspections / route survey / site report making/making site inspection drawings, submitting at designated offices, resubmission after correction, modification if required, soft and hard copy in nos. as required /if required in sizes, and collecting permission from the statutory authorities including NHAI, PWD, Railways, Irrigation, Forest, Municipal Corporation, District administration, River Authority, SEZ etc. Obtaining work permits /NOC from various statutory authorities having jurisdiction before execution of the work and complying with all stipulations /conditions/recommendations of the said authorities. Only statutory fees shall be paid by the owner. Assistance in required length and width/restricted width of ROU opening & closing and their maintainence/ management both side of the crossings.	1	LS	100,000	100,000	
265	TRANSPORTATION OF LINE PIPE					
266	"Receiving and taking over", handling, lifting, loading on trailers, transportation and unloading of Company supplied line pipe from any storage yard (other than the designated storage yard for the project) to worksite / contractor's storage yard/ any other storage yard or as decided by EIC. The above work also includes stacking the pipes on wooden sleepers/ sand pads. Above work shall be carried out as per standard drawing, specification, instruction of Owner and other provision of contract document.	20000	MT-KM	145	2,900,000	AHR
267	Notes: i) The quantities given in above item no. are tentative only and shall not 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.					
268	ii) Above price shall be inclusive of all type of taxes & duties, transit insurance during transportation & other insurance etc. including all financial & commercial implication as per the tender document. No other payment except as per quoted unit rate & executed quantities will be payable by the Owner.					
269	iii) Safe storage of transported linepipe till installation, reconciliation & handingover to client shall be part of the above item. Contractor has been advised to quote accordingly.					
270	TRANSPORTATION OF FITTINGS, FLANGES, VALVES, BARREL, ANY OTHER MATERIAL AS PER PROJECT REQUIREMENT .ETC					
271	"Receiving and taking over", handling, lifting, loading on truck, transportation and unloading of Company supplied DRS/MRS/, Metering Skids, fittings, flanges and valves ...etc from any storage yard (other than the designated storage yard for the project) to worksite / contractor's storage yard/ any other storage yard or as decided by EIC. The above work also includes stacking the DRS/MRS/Metering Skids, flanges, fittings and valves etc. properly. Above work shall be carried out as per standard drawing, specification, instruction of Owner and other provision of contract document.	500	MT-KM	145	72,500	AHR
272	Notes: i) The quantities given in above item no. are tentative only and shall not 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.					
273	ii) Above price shall be inclusive of all type of taxes & duties, transit insurance during transportation & other insurance etc. including all financial & commercial implication as per the tender document. No other payment except as per quoted unit rate & executed quantities will be payable by the Owner.					
274	iii) Safe storage of transported material till installation shall be part of the above item. Contractor has been advised to quote accordingly.					
275	Sub-Total Section B					
276	SECTION-C ITCP Works					
277	(TEMPORARY CATHODIC PROTECTION WORKS)					
278	Design, detail engineering, Manufacturing, Inspection/FAT (Factory acceptance test), supply, Packing, insurance, transportation to site, storage at site, Handling, Transportation, Loading, installation, testing & commissioning of the temporary Cathodic protection system using Mg (Min 5.0 Kg Each) galvanic anodes to protect the external surface of 8"/6" dia x 6.825 km (approx.) long 3LPE Coated pipeline & associated works at Cultack GA, against corrosion for a design life of minimum 2 year or till commissioning of PCP system whichever is later, as per standard specification No.- MEC/S/05/E9/016A for temporary cathodic protection system, Scope of work, Data Sheets & tender drawings. Scope shall also include but not limited to the following for completion of jobs:					
279	Soil resistivity Survey & soil/water chemical analysis					
280	Measurement of soil resistivity along the right of way of the main pipeline (At 500mtr Interval at depth of 1.5M, 2.5M & 3.5M) & collection of additional data as per specification for corrosion survey MEC/TS/05/21/016C & applicable NACE standard including preparation of Design, detailed engineering, preparation of design document, preparation of Test station schedule & Bill of Material.	6.825	KM	3,000	20,475	

SCHEDULE OF RATES FOR LAYING, HDD AND ASSOCIATED WORKS OF 8" & 6" NB DIA. PIPELINE UNDER CONTRACT GA FOR CITY GAS DISTRIBUTION NETWORK (12 MONTHS ANNUAL RATE CONTRACT (ARC)) OF M/S GAIL (INDIA) LTD

Tender No.: 05/51/Q7NT/GAIL/001-I-07 , Tender ID: 2024_GAIL_180252_1

Sl. No.	Item Description	Quantity	Units	KRITA		AHR
				UNIT RATE INCLUSIVE OF ALL TAXES, DUTIES, LEVIES, FREIGHT, INSURANCE, INCLUDING INSURANCE OF FREE ISSUE MATERIALS, TAXES ON BUILDING AND OTHER CONSTRUCTION WORKERS, ETC BUT EXCLUDING GST AS DEFINED IN BID DOCUMENT (IN INR)	TOTAL AMOUNT INCLUSIVE OF ALL TAXES, DUTIES, LEVIES, FREIGHT, INSURANCE INCLUDING INSURANCE OF FREE ISSUE MATERIALS, TAXES ON BUILDING AND OTHER CONSTRUCTION WORKERS, ETC BUT EXCLUDING GST AS DEFINED IN BID	
281	Collection of soil & water samples along ROW at depth of 1M, 2M & 3M at every 5 km interval (Min 03 sample at each location) for its chemical & microbial analysis along the pipeline route as per specification for corrosion survey MEC/TS/05/21/016C & NACE Standard TM0106-2006 for detection of SRB, ARB & Total dissolved H ₂ S etc.	2	No.	5,000	10,000	
282	Sacrificial anodes- Pre packed Mg anodes					
283	Prepacked Magnesium anodes for Carrier/Casing Pipe protection (Min 5.0 Kg Each) as per tender specification (1/2/3/4 Nos. of anodes). The total nos. of anodes shall be calculated as per the corrosion survey, soil chemical analysis, total weight and current requirement of the pipeline section. However, Min one anode is to be installed at every one KM with test station.	10	Nos.	19,000	190,000	
284	Supply, laying, termination, Glanding and ferruling TCP-Cables-The Cables shall be annealed high conductivity, stranded copper conductor, 650/1100V grade, XLPE Insulated & PVC Sheathed in new/existing test stations and junction boxes.					
285	1c x 6 mm ² - Anode tail cable - unarmoured	150	Mtr	215	32,250	
286	1 core x 6 mm ² - Potential Measurement, TLP to pipeline, armoured	200	Mtr	260	52,000	
287	1 core x 10 mm ² - current measurement cable & Pipeline to Test station- armoured	200	Mtr	265	53,000	
288	1 core x 25 mm ² - Bonding, Earthing, Surge diverter, HT line, etc.	150	Mtr	332	49,800	
289	Test Stations					
290	New test stations Normal Size-(Weather Proof with IP-55) as per tender drawings with name plate	8	Nos.	30,000	240,000	
291	New test stations Big Size-(Weather Proof with IP-55) suitable for Polarisation Cells as per tender drawings with name plate	2	Nos.	50,000	100,000	
292	All Cable to pipe connections by Exothermic Process or Pin Brazing for all sizes (Upto 1C x 25mm ²) for complete TCP system of whole pipeline.	1	LS	0	0	
293	Solid State type Polarisation cells (3.7 kA @ 30 Cycle) for HT power line crossings (66KV & above).	2	Nos.	66,000	132,000	
294	20 Kg Sacrificial Zinc anodes for HT line crossing, Earthing of block valves on Cathodically Protected portion of pipeline.	4	Nos.	20,000	80,000	
295	Cu-wire mitigator for AC Mitigation encased in low resistance backfill with corrosion inhibitors and braiding (M/s MATCOR make or equivalent) (20 Mtr wire shall be installed on each side of HT crossing, Cables running parallel etc).	40	Mtr	500	20,000	
296	Solid state Surge Diverters rating 100 kA (10/350 uS) for Insulating Joints.	4	Nos.	19,355	77,420	
297	HDPE sheel (Non-toxic and Rodent Resistant, 6mm thick & 5000mm wide (1200mmx5)) between the GAIL pipeline and the other CP protected foreign pipelines at the crossing locations for providing electrical isolation.	100	Mtr	250	25,000	
298	Supply, installation, testing, commissioning of the complete earthing protection system, earth electrodes/ pit, earth main ring, earthing of electrical equipments, instrument panels, field instruments, process equipments and pipes/ flanges including all associated civil work with all material and labour as per specification and drawings approved by the company.					
299	Earthing Electrodes 65mm dia x 3mtr long & 4.5 mm thick GI pipe for earthing of cathodically unprotected pipeline at CNG station/consumer station/DRS station/Metering skid and earthing. Total grounding resistance shall be limited to 2-3 Ohm max.	4	Nos.	27,000	108,000	AHR
300	GI Strip (50X6) mm	150	Mtr	467	70,050	
301	GI Strip (25X3) mm	150	Mtr	419	62,850	AHR
302	Copper Strip (25X3) mm	100	Mtr	1,060	106,000	
303	GI Wire (8mm-Stranded), Cu- wire rope (Min 8 mm dia solid) and all balance earthing material including copper strip (50 mm x 2 mm thick) jumper for flanges etc. as per the specification for all stations.	1	Lot	35,000	35,000	
304	Monitoring of the TCP system, on monthly basis, till commissioning of the permanent cathodic protection system.	24	Months	110,000	2,640,000	AHR
305	Polarisation coupons (100 mmx 100mm) with Magnetic reed switch as per NACE SP 104 with permanent ref cell.	2	Nos.	40,000	80,000	AHR
306	Sub-Total Section C					
307	SECTION-D (PIPING & MECHANICAL WORKS)					
308	SUPPLY OF ASSORTED PIPE, FITTINGS AND FLANGES					
309	Complete work of supply of pipes, fittings and flanges including all taxes, duties, transportation and inspection charges but not limited to the following items in accordance with relevant specifications indicated in clause of SCC & scope of work indicated in SCC, drawings, specification and instructions of Engineer-in-charge and as per all provisions of the CONTRACT DOCUMENT.					
310	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.					
311	CARBON STEEL PIPES					
312	8" NB, 7.9 mm , API 5L, Gr. B, PSL-2, Seamless, BE	12	Mtr	5,000	60,000	
313	6"NB, S40, ASTM A106, Gr. B (Charpy), Seamless, BE	18	Mtr	3,300	59,400	
314	4"NB, S40, ASTM A106, Gr. B (Charpy), Seamless, BE	48	Mtr	2,200	105,600	
315	2" NB, XS, ASTM A106, Gr. B (Charpy), Seamless, BE	36	Mtr	640	23,040	
316	1" NB, XS, ASTM A106, Gr. B, Seamless, PE	3	Mtr	425	1,275	
317	3/4" NB, S160, ASTM A106, Gr. B, Seamless, PE	3	Mtr	310	930	
318	FLANGES					
319	Weld Neck (B-16.5, A105(Charpy), 125 AARH, RF) (End Thickness to match pipe thickness)	2	Nos.	6,382	12,764	
320	8" NB, 300#	2	Nos.	4,500	9,000	
321	6" NB, 300#	2	Nos.	2,100	4,200	
322	4" NB, 300#	6	Nos.	2,100	12,600	

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Tender No.: 05/51/Q7NT/GAIL/001-I-07 , Tender ID: 2024_GAIL_180252_1

Sl. No.	Item Description	Quantity	Units	KRITA		AHR
				UNIT RATE INCLUSIVE OF ALL TAXES, DUTIES, LEVIES, FREIGHT, INSURANCE, INCLUDING INSURANCE OF FREE ISSUE MATERIALS, TAXES ON BUILDING AND OTHER CONSTRUCTION WORKERS, ETC. BUT EXCLUDING GST AS DEFINED IN B/D DOCUMENT (IN INR)	TOTAL AMOUNT INCLUSIVE OF ALL TAXES, DUTIES, LEVIES, FREIGHT, INSURANCE, INCLUDING INSURANCE OF FREE ISSUE MATERIALS, TAXES ON BUILDING AND OTHER CONSTRUCTION WORKERS, ETC. BUT EXCLUDING GST AS DEFINED IN B/D	
323	2" NB, 300#	10	Nos.	1,600	16,000	AHR
324	1" NB, Socket Welded (B-16.5, A105, 125 AARH, SW end to B16.5), 300#	2	Nos.	1,180	2,360	AHR
325	3/4" NB, Socket Welded (B-16.5, A105, 125 AARH, SW end to B16.5), 300#	8	Nos.	1,095	8,760	AHR
326	Blind Flanges (B-16.5, A105 (Charpy), 125 AARH, RF)					
327	8" NB	2	Nos.	5,250	10,500	
328	6" NB	2	Nos.	4,300	8,600	
329	4" NB	4	Nos.	1,675	6,700	
330	2" NB	10	Nos.	745	7,450	
331	1" NB, Blind Flanges (B-16.5, A105, 125 AARH, RF)	2	Nos.	432	864	
332	3/4" NB, Blind Flanges (B-16.5, A105, 125 AARH, RF)	8	Nos.	325	2,600	
333	ELBOW, 90° Elbow (A234, Gr. WPB (Charpy), B-16.9, 1.5D), BW					
334	8" NB, 7.9 mm	2	Nos.	2,460	4,920	
335	6" NB, S40	2	Nos.	1,320	2,640	
336	4" NB, S40	2	Nos.	540	1,080	
337	2" NB, XS	16	Nos.	120	1,920	
338	ELBOW, 45° Elbow (A234, Gr. WPB (Charpy), B-16.9, 1.5D), BW					
339	8" NB	2	Nos.	1,200	2,400	
340	6" NB	2	Nos.	520	1,040	
341	4" NB	2	Nos.	320	640	
342	2" NB	2	Nos.	88	176	
343	TEE, Equal / Reducing Tee (A234, Gr. WPB (Charpy), B-16.9, 1.5D), BW					
344	8"x8"x8", 7.9 mm	1	Nos.	3,410	3,410	
345	6"x6"x6", S40	1	Nos.	1,780	1,780	
346	4"x4"x4", S40	1	Nos.	920	920	
347	2"x2"x2", XS	10	Nos.	310	3,100	
348	TEE, Unequal / Reducing Tee (A234, Gr. WPB (Charpy), B-16.9, 1.5D), BW					
349	8"x8"x6" (7.9 x S40)	1	Nos.	4,120	4,120	
350	8"x8"x4" (7.9 x S40)	1	Nos.	4,210	4,210	
351	6"x6"x4" (S40 x S40)	1	Nos.	2,000	2,000	
352	4"x4"x2" (S40 x XS)	1	Nos.	1,050	1,050	
353	BARRED TEE (As per Standard Specification and Data Sheets enclosed) (Bevel end thickness of run & branch size to match with connecting pipe thickness)					
354	8" x8" x 8" (As per datasheet)	1	Nos.	3,410	3,410	
355	6"x6"x6" (As per datasheet)	1	Nos.	1,780	1,780	
356	6"x6"x4" (As per datasheet)	2	Nos.	2,000	4,000	
357	8" x8" x 4" (As per datasheet)	2	Nos.	4,210	8,420	
358	4" x4" x 4" (As per datasheet)	1	Nos.	920	920	
359	SOCKOLET (A105, SW)					
360	8" x 1/2" (6000#)	2	Nos.	895	1,790	
361	8" x 1" (6000#)	1	Nos.	800	800	
362	6" x 1/2" (6000#)	4	Nos.	780	3,120	
363	6" x 1" (6000#)	1	Nos.	770	770	
364	4" x 1/2" (6000#)	8	Nos.	560	4,480	
365	4" x 1" (6000#)	1	Nos.	530	530	
366	WELDOLET (A105 (Charpy), BW)					
367	8" x 2" (7.9 x XS)	6	Nos.	1,080	6,480	
368	6" x 2" (S40 x XS)	8	Nos.	1,010	8,080	
369	Reducer (A 234 Gr. WPB (Charpy), BW)					
370	8"x4" (7.9 x XS)	1	Nos.	2,300	2,300	
371	6"x4" (S40 x S40)	1	Nos.	980	980	
372	4" x 2" (S40 x XS)	1	Nos.	430	430	
373	INSULATING JOINTS (As per Standard Specification and Data Sheets enclosed)					
374	8", 300#	1	Nos.	45,000	45,000	
375	6", 300#	1	Nos.	38,300	38,300	
376	4", 300#	1	Nos.	32,200	32,200	
377	End Caps (A 234 Gr. WPB (Charpy), BW)					
378	8", 7.9 mm	2	Nos.	3,000	6,000	
379	6", S40	2	Nos.	2,650	5,300	
380	4", S40	2	Nos.	1,350	2,700	
381	2", Sch. XS	2	Nos.	1,200	2,400	
382	Note: a) All butt welded fittings end shall generally match with connecting pipe wall thickness however in case of misalignment Contractor shall have to do end preparation without any extra cost.					
383	B) All coupling, nipples etc. as required shall be supplied by contractor but no separate payments shall be made as it is covered under erection rate.					
384	c) Quantities mentioned against each above sub-item of Sl.no. 308 (item Code D00100) are tentative and may increase or decrease during execution of work depending upon site requirement. Contractor required to supply materials after assessing the site requirement and in multiple lot or as per Release Order/ Sub Purchase Order wise. All material either in multiple lot or as per Release Order/ Sub Purchase Order wise or as decided by EIC shall be supplied by bidder within the quoted price.					
385	Supply of Valves					
386	Complete work of supply of valves including all taxes, duties, transportation and inspection charges but not limited to, the following items in accordance with relevant Specifications & relevant Data Sheets indicated in scope of work indicated in SCC, drawings, specification and instructions of EIC and as per all provisions of the CONTRACT DOCUMENT.					

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387	Plug Valves					
388	2", BW, 300#	2	Nos.	18,400	36,800	
389	Ball Valves					
390	8", BW, FB(Fully welded), 300#	2	Nos.	32,000	64,000	
391	6", BW, FB(Fully welded), 300#	1	Nos.	29,300	29,300	
392	4", BW, FB(Fully welded), 300#	1	Nos.	23,300	23,300	
393	2", BW, FB(Fully welded), 300#	6	Nos.	14,700	88,200	
394	2", FE, FB, 300#	2	Nos.	14,700	29,400	
395	1", SW, FB, 800#	2	Nos.	3,300	6,600	
396	3/4", SW, FB, 800#	4	Nos.	2,900	11,600	
397	Globe Valves					
398	2", FE,	2	Nos.	21,700	43,400	
399	Note: Quantities mentioned against each above sub-item of Sl no. 412 (Item Code D00300) are tentative and may increase or decrease during execution of work depending upon site requirement. Contractor required to supply materials after assessing the site requirement and in multiple lot or as per Release Order/ Sub Purchase Order wise. All material either in multiple lot or as per Release Order/ Sub Purchase Order wise or as decided by EIC shall be supplied by bidder within the quoted price.					
400	ERECTION OF VALVES (As per P & ID) (Above Ground)					
401	Handling including lifting and transportation from COMPANY's warehouse to CONTRACTOR'S Stores and/or work site and installation of all types of valves including assembly of valve accessories, (if any) by bolting, threading or welding, supply and insertion of gaskets, nuts & bolts, nipples, etc. at all elevations of pipe sleepers, supports or overhead on racks, equipments nozzle, 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 Engineer-in-charge including servicing/ cleaning of valve wherever required.(This excludes erection of pipeline,other fittings,welding and Radiography)(Payment for welding and Radiography will be done separately under relevant SOR)					
402	Welded Valves (Full Bore/ Reduced Bore)					
403	8" NB, 300#	2	Nos.	1,800	3,600	
404	6" NB, 300#	1	Nos.	1,400	1,400	
405	4" NB, 300#	1	Nos.	1,100	1,100	
406	2" NB, 300#	6	Nos.	900	5,400	
407	Flanged Valves (Full Bore/ Reduced Bore)					
408	2", 300#	8	Nos.	410	3,280	
409	Sockolet Welded Valve (Ball / Plug / Valves)					
410	1"	2	Nos.	360	720	
411	3/4"	4	Nos.	330	1,320	
412	Erection of Pipelines (As per P & ID) (Above Ground) along with all fittings except Valves etc					
413	Erection of pipelines (As per P & ID) (Above Ground)alongwith all fittings etc.including supply of studs,nuts,gaskets etc for making the line single piece for Gas-In and painting as per MECON Specification(Sizes upto 8")	1000	Inch Meter	1,300	1,300,000	AHR
414	Welding of joints for pipeline erection,fittings and Valves as per MECON Specification (Sizes upto 8")	800	Inch Dia	1,300	1,040,000	AHR
415	Hydrotesting of various dia station piping as per Specification (Sizes upto 8")	600	Inch Meter	200	120,000	
416	Note : The above quantity is for aboveground piping only. Erection of underground valves(for Sectionalizing Valves,Tap Off and any other purpose as per the instructions of EIC/GAIL GA Incharge) already covered in mainline SOR.					
417	RADIOGRAPHY					
418	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 not expressly mentioned but required to perform the work as per specifications and instructions of Engineer-in-Charge (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 not be paid extra by Company). Radiographs shall be submitted to the Engineer-in-Charge for acceptance, whose decision shall be final and binding.					
419	8" NB	20	No. of Joint	1,110	22,200	
420	6" NB	16	No. of Joint	1,050	16,800	
421	4" NB	20	No. of Joint	580	11,200	
422	2" NB	40	No. of Joint	430	17,200	
423	FIELD INSTRUMENTS					
424	Supply of Pressure Gauges inclusive of supply of erection accessories as per data sheet. (300#)	5	No.	6,000	30,000	
425	Installation, Calibration, Testing & Commissioning of Pressure Gauges inclusive of supply of necessary piping materials/tubings alongwith all necessary valves & fittings, fabrication and installation of impulse lines/manifolds & hydraulic testing as per installation standard no. MEC/05/E5/SD/PG/004 (300#)	5	No.	3,000	15,000	
426	Note: Quantities mentioned for above items are tentative and shall be supplied with prior approval of EIC with in the quoted price.					
427	Sub-Total Section D					
428	SECTION-E [CIVIL WORKS]					
429	EARTH WORK IN EXCAVATION/ SITE GRADING AND BACKFILLING					

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430	Earth work in excavation /site grading in all kinds of soil including soft rock in any plan dimension up to required depth including backfilling of excavated earth at any location in layers of 300mm and compacted up to 95% to its MDD at all heights and depths. Surplus and unserviceable earth shall be disposed up to any lead in all conditions. Soil to be levelled and neatly dressed complete in all respect as per scope of work, detailed construction drawings, technical specifications and direction of the Engineer-in-Charge.	6	CUM	500	3,000	
431	Note:-					
432	1. This Rate shall be applicable only for excavation which are not included as a part of respective SOR Item.					
433	2.The Contractor shall take into account in his quoted rate the provision for excess excavation required for necessary working space, cutting in slopes etc., which may be required for excavation and other allied works and refilling the side slopes and working space in layers as per requirement.					
434	3.Rate to include cost of all labour, tools, tackles, equipment, hire charges, shoring, bailing and pumping out water as required etc. with all bye works and sundry works complete in all respects.					
435	4.NET CUM of excavated quantity in CUM shall be measured for payment.					
436	5. To be read in conjunction with Particular Job Specification.					
437	BRICK WORK					
438	Providing and laying brick work with brick class designation M-5.0 of IS:1077 in Cement Mortar 1:4 (1cement : 4 sand) in steps, load bearing structures, drains, or at any other location at all depths & height for all leads including providing required finishes, curing, scaffolding, etc., complete as per specifications and drawings with all bye-works as per direction of the Engineer-in-charge.	6	CUM	6,000	36,000	
439	Note:-					
440	1.Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 43 grade cement (OPC), bricks, finishes, bitumen, other minor construction materials, shuttering, staging, masonry work, excavation, PCC M10, plastering with 15 mm thick cement plaster on exposed faces with 1:4 cement mortar(1 cement : 4 Sand) , painting with bitumen etc. as per requirement with all bye-works and sundry works complete as per drawings.					
441	2. To be read in conjunction with Particular Job Specification.					
442	PLAIN CEMENT CONCRETE					
443	Supplying and laying plain cement concrete of grade M 10 with stone aggregate 40mm down grade (including shuttering if required) in all types of concrete works including levelling courses below foundations, mass concrete works, chambers, cable trench, under floors and any other locations, at all levels and locations (which are not covered as part of composite items) as per drawings, specifications and directions of the Engineer-in-charge.	5	CUM	10,000	50,000	
444	Note :-					
445	1.Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials, shuttering in all conditions etc. with all bye works and sundry works.					
446	2. To be read in conjunction with Particular Job Specification.					
447	REINFORCED CEMENT CONCRETE					
448	Providing and laying Reinforced Cement Concrete of grade M-25 with 20mm and down grade crushed stone aggregate in all types of structures like foundations, beam, columns, pedestals, pedestal bases, pipe supports, sleepers, cable trench, RCC retaining wall foundation for boundary wall etc. including excavation, PCC M10 in mud mat, shuttering, construction joints, bitumen painting on surfaces in contact with soil, supplying and fixing MS inserts, finishes etc. at all depths and levels complete as per drawings, specifications and directions of the Engineer-in-charge.	4	CUM	15,000	60,000	
449	Note :-					
450	1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 43 grade OPC cement including sulphate resistant cement for sub-structures, inserts, bolts, conduits, bitumen, excavation, PCC M-10 in mud mat, other minor construction materials, shuttering , staging, testing of concrete, curing etc. except reinforcement steel with all bye works and sundry works complete.					
451	2. To be read in conjunction with Particular Job Specification.					
452	REINFORCEMENT STEEL					
453	Supplying and Fabricating and Fixing in position HYSD Steel Reinforcements/ TMT Grade Fe-415/Fe 500D conforming to IS1786-2008 at all levels and positions including the Cost of transportation, Straightening, Cutting, Bending, Cranking, Binding, Welding, Provision of necessary Chairs and Spacers, Preparation of bar bending schedule, getting the same approved by EIC etc., complete as per Drawings and Specifications and including Cost of binding wire, Labour etc., all complete in all respects as per scope of work, detailed construction drawings, technical specifications and direction of Engineer-in-charge. The Chairs and Spacer Bars provided will not be measured for payment.	1	MT	100,000	100,000	
454	Note :-					
455	1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as steel Reinforcement, binding wire and other minor construction materials, testing etc. all bye works and sundry works.					
456	2. Chairs, Laps, Spacers, Wastage etc. shall be to contractor's account.					
457	3. To be read in conjunction with Particular Job Specification.					
458	CONCRETE PAVEMENT					

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459	Providing and laying reinforced cement concrete pavement 150 mm thick in M-25 grade with 20 mm and down grade crushed stone aggregate in pavement, including earthwork in excavation, preparation of base (i.e. compacted subgrade, 200 thk sand and 100 thk PCC M-10 grade), leaving pockets if necessary, making recess, projections, fixing inserts conduit pipes (GI, PVC, HDPE, etc.) laying in alternate panels, filling the gaps between the panels with bitumen sand mix filler material etc., making slopes, finishing edges, leaving bars for pedestals & sleepers including providing sand fill isolation, shuttering, providing and fixing reinforcing steel, curing, chipping and modification works etc. as specified in any shape, thickness, position and finishing the top surface smooth as per requirement etc. all complete as per drawings, specifications and directions of the Engineer-in-charge.					
460	150mm thick in Pavements in Process Areas (Type - I)	100	SQM	500	50,000	
461	Note :-					
462	1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials, providing and fixing reinforcement steel, shuttering, earthwork in excavation and backfilling using serviceable earth in all conditions, preparation of base, etc. with all bye works and sundry works. Cost of works towards pipe supports & sleepers being raised from pavement is covered under respective RCC items.					
463	2. To be read in conjunction with Particular Job Specification.					
464	VALVE PIT					
465	Construction and handing over of RCC Valve Pit as per tender drawing, technical specification and direction of engineer-in-charge complete in all respect. Scope of work shall be as per tender drawing.					
466	Construction and handing over of RCC Valve Pit of approx. 3.4 m x 1.8 m in size (internal dimension) as per technical specification and direction of engineer-in-charge complete in all respect. Scope of work shall be as per Sketch attached with the tender.	1	Nos.	173,996	173,996	
467	Construction and handing over of RCC Valve Pit of approx. 2.6 m x 1.8 m in size (internal dimension) as per technical specification and direction of engineer-in-charge complete in all respect. Scope of work shall be as per Sketch attached with the tender.	1	Nos.	142,000	142,000	
468	Construction and handing over of RCC Valve Pit of approx. 1.750m x 1.0 m in size (internal dimension) as per technical specification and direction of engineer-in-charge complete in all respect. Scope of work shall be as per Sketch attached with the tender.	1	Nos.	100,000	100,000	
469	Construction and handing over of RCC Valve Pit of approx. 1.6m x 1.6 m in size (internal dimension) as per technical specification and direction of engineer-in-charge complete in all respect. Scope of work shall be as per Sketch attached with the tender.	1	Nos.	120,000	120,000	
470	STEEL STRUCTURAL WORKS					
471	Steel structure Fabrication					
472	Supplying, Fabricating & Erecting in position steel structures fabricated out of MS Girders, channels, Tees, angle, flats, plate, square hollow sections pipes etc. conforming to IS:2062 and/or from pipes conforming to IS:1161 for structural purpose for cascade supporting structure, loading/unloading platform, Gratings for platform, catladder, handrails, hoardings for sinages, Lcv stand, etc. of any size/dia for required design including cutting, welding, bolting, hoisting, fixing in position, including application of one coat of primer at shop and second coat of primer at site after erection and two coats of finishing paint at site. The work is to be completed in all respect as per specification, scope of work, detailed construction drawings and directions of the Engineer-in-charge.	250	KG	150	37,500	
473	[Rate to include cost of all labour, nut, bolts, tools, tackles, hire charges royalties, levies, transportation, scrap value, gas cutting, welding, other consumables, paints, compressed air, water, electric power etc. all complete.]					
474	Providing and fixing Fencing Structure					
475	Supplying, fabricating & fixing steel structural fencing fabricated from pipes conforming to IS:1161 and plates conforming to IS:2062 & fixing of GI weldmesh made from 3mm GI wire @ 75 mm bothways to structural steel frame by means of welding/bolting, including applying two coats of approved quality of synthetic enamel paint over a priming coat of in approved shade including supply of all raw materials, bolts, electrodes, transportation, including making pokets & pouring with PCC (1:2:4) in of block 500x500x500 for fixing of posts etc complete as per enclosed drawing, technical specifications, scope of works and directions of the Engineer-In-Charge.					
476	Fencing height 2.1m	50	Rm	3,700	185,000	
477	Notes:					
478	The quantities indicated are estimated values and hence are approximate. Final payment will be made based on actual quantities to be certified by the Purchaser.					
479	The cost of MS bolts (permanent and service), washers, electrodes, putty, gases, cost of straightening the raw materials, cutting of flats from plates and providing splices, paints, tools, plants, etc., as required for the work shall be deemed to be included in the quoted rates.					
480	All handling and transport charges of raw materials and fabricated structures including double handling, as required, for completion of work in accordance with					
481	Time schedule, are deemed to be included in the quoted rates					
482	All accessories like MS tower bolts, MS Pivot, MS Wheels, MS Tee section, locking arrangement etc. shall be measured by weight only.					
483	Contractor shall ensure proper alignment and smooth operation of Gate					
484	Sub-Total Section E					
485	SECTION-F (TELECOMMUNICATION WORKS)					
486	Supply of Jointing Closures (suitable for 24 Fibre OFC) including all accessories of approved make of GAIL/MECON only.	7	Sets	12,000	84,000	

SCHEDULE OF RATES FOR LAYING, HDD AND ASSOCIATED WORKS OF 8" & 6" NB DIA. PIPELINE UNDER CUTTACK GA FOR CITY GAS DISTRIBUTION NETWORK (12 MONTHS ANNUAL RATE CONTRACT (ARC)) OF M/S GAIL (INDIA) LTD

Tender No.: 05/51/Q7NT/GAIL/001-i-07 , Tender ID: 2024_GAIL_180252_1

Sl. No.	Item Description	Quantity	Units	KRITA		AHR
				UNIT RATE INCLUSIVE OF ALL TAXES, DUTIES, LEVIES, FREIGHT, INSURANCE, INCLUDING INSURANCE OF FREE ISSUE MATERIALS, TAXES ON BUILDING AND OTHER CONSTRUCTION WORKERS, ETC. BUT EXCLUDING GST AS DEFINED IN BID DOCUMENT (IN INR)	TOTAL AMOUNT INCLUSIVE OF ALL TAXES, DUTIES, LEVIES, FREIGHT, INSURANCE, INCLUDING INSURANCE OF FREE ISSUE MATERIALS, TAXES ON BUILDING AND OTHER CONSTRUCTION WORKERS, ETC. BUT EXCLUDING GST AS DEFINED IN BID	
487	Supply of Jointing Closures - 3 way / 4 way (suitable for 24 Fibre OFC) including all accessories of approved make of GAIL/MECON only.	5	Sets	12,000	60,000	
488	Installation of 40mm OD(One or two as per the instruction of EIC/GAIL GA Incharge), permanently lubricated HDPE ducts, in same pipeline trench direct buried Open Cut Method) or Crossing through HDD(Bundle Pulling) in all type of soil & terrain, all work as define in mainline work, for terminal area or non pipeline area - excavation, padding, backfilling, supply & Laying of common warning mat/mesh (as provided for the pipeline), cleaning and sealing of ducts, for river crossing additional blowing pit at both end of the river bank, jointing of HDPE conduit, supply and installation of erection accessories as required, Testing of laid permanently lubricated HDPE ducts, rectification if required, cleaning and sealing of ducts at the end after testing, preparation of report, joint location marking in CAS, final acceptance / Handing over of the same to Client/ other contractor, Drawings and documentation all complete as per specifications provided in the bid document. (Supply of HDPE accessories required including Plastic Couplers (PC), End Plugs (EP), Cable Sealing Plugs (CSP), End Caps (EC) etc suitable & sufficient for Blowing Duct, complete in all respect as per specification and as per direction of EIC). (This duct is for blowing of 24 F for total length of pipeline as per spec. and drawing)	8000	Mtr	50	400,000	
489	All activities pertaining to Blowing / Laying of optical fiber cable in same pipeline trench inside 40 mm HDPE telecom duct (after testing of OFC drum at site), testing of OFC before Blowing/laying, cable sealing etc. using all materials required complete as per specifications and drawing provided in the bid document & as per direction of EIC. (spare loop of 10 Meter at Blowing Pit, 20 Meter at Jointing Pit, & 100 Meter at each station in a Blowing Pit (if applicable) shall be provided- No payments for laying shall be made for these spare loops). The scope includes blowing of OFC through HDPE duct laid by the contractor as well as blowing of OFC through HDPE duct laid by other contractor.	8000	Mtr	50	400,000	
490	Submission of optical fiber cable & HDPE alignment sheets as per the requirements of specification based on the existing pipe line survey (No separate survey reqd.), estimation of OFC & HDPE duct including all accessories in accordance with the alignment sheet and specifications. Laying work can not be started without approval of these documents from Client / Consultant / EIC.	1	LS	10,000	10,000	
491	Supply and installation of OFC Blowing pits / Jointing pit (RCC pit as per MECON dwg & at every 1 KM distance for BP and every joint location for JP, at 1 meter away from the main pipeline), including sand etc all complete as per spec. Also, at every junction, branching points, HDD crossings, cased crossings, NH crossings blowing pit has to be considered.	12	Nos.	8,000	96,000	
492	Supply & installation of 300 dia OFC cable markers at all pipeline warning markers locations on same pipeline markers / KM marker / directional marker post as per specifications & drawing provided in the bid document and direction of consultant.	7	Nos.	6,500	45,500	AHR
493	Splicing, Jointing of optical fiber cable , final Jointing / splicing, Testing of OFC after jointing all completed as per specifications & drawing provided in the bid document and as per instruction of EIC. This has to be done at all joint locations.	12	Nos.	12,000	144,000	
494	Supply and installation of Joint Marker at all jointing locations all complete as per spec., drawing provided in the bid document and the direction of consultant. This has to be done at all joint locations.	12	Nos.	1,000	12,000	
495	Note : (i) The quantities of individual item can varied as per site requirement. The payment will be made as per actual certified measurement at site. For the supply items the quantities shall be procured after approval from client/ consultant/EIC.					
496	(ii) The bidder must indicate currency(ies) against each quoted item of the SOR.					
497	(iii) The total amount shall also be given by the bidder in the quoted currency(ies).					
498	(iv) Some of the may / may not be execute as per site requirements.					
498	Sub-Total Section F					
499	Total of Section A + B + C + D + E + F				56,583,650	
500	GST (CGST&SGST/UTGST or IGST) in percentage (%) on Total of Section A + B + C + D + E + F above (Presently applicable @ 18%)				10,185,057	
501	Total Including GST (in INR)				66,768,707	


