



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)
13th & 15th Floor, North Tower, Scope Minar, Laxmi Nagar District Center, Delhi-110092, (INDIA)
फोन / Phone : +91-11-2244 7417, CIN : U74140JH1973GOI001199
GSTIN : 07AACCM2119B1Z4 वेबसाइट / Website : <http://meconlimited.co.in>

स्वीकृति का फैक्स / FAX OF ACCEPTANCE (FOA)

FOA NO. 05/51/Q7NT/GAIL/001-ii-13/FOA-957

DATE: 15.07.2023

TO : M/S BALAJI ASSOCIATES
PHONE : +91- 011-45513608, 9818681921
EMAIL : balajiasociates@hotmail.co.in
ATTN : MR. RAKESH BANSAL, PROPRIETOR
FROM : SR. GM (CONTRACTS), MECON LIMITED, DELHI

PLEASE REFER TO YOUR OFFER NO. NIL DTD. 24.04.23 (NIC BID ID: 545874) AND ALL OTHER SUBSEQUENT CORRESPONDENCE AGAINST BIDDING DOCUMENT NO. 05/51/Q7NT/GAIL/001-II-13 DATED 06.04.2023 (TENDER ID: 2023_GAIL_150887) & COMMERCIAL CORRIGENDUM #1 DATED 15.04.2023 FOR LAYING OF PE PIPELINE NETWORK INCLUDING ASSOCIATED WORKS FOR RANCHI GA FOR CGD PROJECT AT SIX GAS FOR GAIL (INDIA) LIMITED (.)

WE HEREBY ISSUE THIS FAX OF ACCEPTANCE (FOA) FOR AWARD FOR APPROX. 60% OF SCOPE OF WORK OF TENDER AT AN ESTIMATED CONTRACT VALUE OF RS. 2,39,59,014/- (INDIAN RUPEES TWO CRORE THIRTY-NINE LAKHS FIFTY-NINE THOUSAND FOURTEEN 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 TOTAL 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 II) 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 authorized signatory)

राकेश शर्मा / RAKESH SHARMA

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

मेकॉन लिमिटेड, दिल्ली / MECON LIMITED, DELHI

CC: BY COURIER TO:

M/s Balaji Associates

506 DDA Building No. - 5, District Centre, Janakpuri, New Delhi-110058

Tel No.: +91- 011-45513608, 9818681921

प्रधान कार्यालय / Head Office :

कार्यालय / Office :

राँची / Ranchi	बैंगलूर / Bangalore	मुम्बई / Mumbai	कोलकाता / Kolkata	चेन्नई / Chennai
+91-651-248 3000 (Phone)	+91-80-2657 1661-63 (Phone)	+91-22-2781 2155-58 (Phone)	+91-33-2282 2381-82 (Phone)	+91-44-2618 4873 (Phone)
+91-651-248 2189/248 2214 (Fax)	+91-80-2625 2000 (Phone)	+91-80-2781 2275 (Fax)	+91-33-2282 4441 (Fax)	+91-44-2618 4874 (Fax)
ranchi@meconlimited.co.in	+91-80-2657 6352 (Fax)	Mumbai@meconlimited.co.in	kolkata@meconlimited.co.in	chennai@meconlimited.co.in
	bangalore@meconlimited.co.in			

Annex 1 to POA no 05/51/Q7NT/GAIL/001-II-13/GAIL/001-II-13/POA/957 dtd. 15.07.23

SCHEDULE OF RATES

LAYING OF PE PIPELINE NETWORK INCLUDING ASSOCIATED WORKS FOR RANCHI GA: Tender No.: 05/51/Q7NT/GAIL/001-II-13 (Tender ID: 2023_GAIL_150887)

Sl. No.	Item Description	Item Code / Make	Units	Quantity	Unit Rate (inclusive of all applicable taxes & duties & other levies (if any) payable by the Contractor under the Contract, or for any other cause except final GST) in Rupees	TOTAL AMOUNT (inclusive of all applicable taxes & duties & other levies (if any) payable by the Contractor under the Contract, or for any other cause except final GST) in Rupees
1	PE PIPELINE	A00100				
2	Pipe Laying (including crossing) in any type of surface like unprepared surface (Katcha surface)/ Normal Surface/ Hard surface/Rock surface etc using open cut/ Molding (without casing)/ Molding (with casing)/ Directional Drilling technique (with and without casing pipe) methodology.	A00101				
3	Receipt, Loading, unloading, storing, reloading, transportation, stringing and laying of PE100, SDR11 line pipes of all sizes including, proper stacking, identification and supply of accessories of all sizes & thickness like PE Bends, Couplers, Endcaps, Tee, Reducer, CS / GI to PE Fittings (i.e. Transition Fittings of sizes 20 mm to 32 mm), Warning Mat etc. Handling, Stringing / uncoiling, aligning of the PE line pipe on the pipeline Right-of-Use / route, laying / installation of PE line pipe alongwith required accessories as mentioned above as per specification wherever required depending on site condition including execution of all works; Storage of material in contractor's store, fabrication, access for construction procurement and supply of all materials, consumables, equipments, labour and other inputs. In the case of free issue items, the scope also includes, receiving and loading from Owner's designated store, transportation, unloading and stacking of free issue items at Contractor's store. -Laying of all PE pipe (PE 100 SDR11), Including supply of HDPE casing pipe (in case of HDD (with case), Couplers, End caps etc. (Ref. cl. 4.3 of Particular job specification). -Survey of under ground utilities, execution of the work as per specification, including excavation of pits moling with the hole size not exceeding 20% of the pipe dia, jointing and insertion of carrier pipe with casing, testing & commissioning and restoration of the pits to original condition, submission of As-Built Graph as per specifications and the instruction of Engineer-in-charge. -Casing details is as given below:- 1. For 20/32 mm PE pipe (in 75 mm dia. HDPE Casing Pipe, PE 63/80 PN6.0). 2. For 63 mm PE pipe (in 125 mm dia. HDPE Casing Pipe, PE 63/80 PN6.0). 3. For 90 mm pipe (in 180 mm dia. HDPE Casing Pipe, PE 63/80 PN6.0). 4. For 125 mm pipe (in 250 mm dia. HDPE Casing Pipe, PE63/80 PN 6.0).					
4	Carrying out all temporary, ancillary, auxiliary works required to make the PE pipeline ready for commissioning as per drawings.					
5	Specifications, scope of work indicated in PJS and other provisions of Contract document and instructions of Engineer-in-charge, including but not limited to carrying out the following works:					
6	Surveying of route and detours required at the time of execution, preparation of construction drawings showing survey details and submit same to Owner for review / approval.					
7	Carrying out preliminary activities such as preparation of drawings wherever required for crossing etc.					
8	Preparation and getting approval of schedules, execution procedures, drawings/ sketches/ wherever required, making trial pits to determine the underground utilities/ services etc., restoration of the abandoned trial pits to original condition.					
9	Stacking and installation of construction markers, clearing, fencing, grubbing, cutting of trees, full filling all the requirements of various statutory/ environment authorities to the entire satisfaction of concerned authorities, grading of work area.					
10	Barricading the work area as per local authorities norms & to the satisfaction of Owner/ Engineer-in-charge. Installation of safety signs.					
11	Barricading the pipeline construction area prior to execution of the works as per drawing no. MEC/23QH/05/25/M/000/011 & MEC/23QH/05/25/M/000/10 enclosed with tender document and to the entire satisfaction of owner / engineer-in-charge.					

SCHEDULE OF RATES

LAYING OF PE PIPELINE NETWORK INCLUDING ASSOCIATED WORKS FOR RANCHI GA: Tender No.: 05/51/Q7NT/GAIL/001-ii-13 (Tender ID: 2023_GAIL_150887)

Sl. No.	Item Description	Item Code / Make	Units	M/s Balaji Associates, Delhi		
				Quantity	Unit Rate (inclusive of all applicable taxes & duties & other levies (if any) payable by the Contractor under the Contract, or for any other cause except final GST) in Rupees	TOTAL AMOUNT (inclusive of all applicable taxes & duties & other levies (if any) payable by the Contractor under the Contract, or for any other cause except final GST) in Rupees
12	Laying using open trench without casing includes survey of under ground utilities (through trial pits), execution of work as per specification including Trenching to all depths by excavation in all types of soils including soft/ rocky strata (Rock Cutting to be paid separately as per SOR No. A01100 to A01101) and different type of pavement / footpath / roads etc. including rock breaking, chiselling or otherwise cutting etc. as required and storing excavated soil, reusable materials at designated area as directed by Engineer in charge and to a width to accommodate the pipeline as per the relevant standard/ specification etc. [The minimum depth of the top of pipeline shall be 1.0 m measured from top of pipeline to the top of undisturbed surface of the soil or as per Specification/ OISD- 226 & PNGRB latest guidelines whichever is higher]. Dewatering of trenches / pits if required as per site condition. Repairing of all damaged utilities if any, and payment of any compensation (if claimed by owner / other utility agencies)					
13	Uncoiling / stringing & aligning of PE pipes, clamping, jointing of the pipe ends / fittings / valves by qualified personnel using approved electro-fusion techniques as per specification.					
14	Installation / lowering the pipeline in trench to required depth as per PIS. Technical Specification & drawings, supply & placement of HDPE Yellow colour warning mat (refer PIS item. - 4.2) over the pipeline along the complete route as per standard drawings, data sheets & technical specifications, padding around pipeline including supply of suitable padding material duly approved by EIC, backfilling to its original condition with excavated earth / borrowed select soil/sand duly approved by EIC & its compaction & crowning. At certain specific area of ROU, trench shall be backfilled & compacted and shall be made ready for motorable. All tiles / slabs / curb stones etc removed during excavation shall be placed properly and no separate payment shall be admissible against this activity. Restoration shall be carried as per separate SOR item mentioned elsewhere in the SOR or to be done by Owner / concerned authorities.					
15	The scope of work against this item also include Electro-fusion jointing of valves, fittings wherever required and as directed by Engineer-in-charge.					
16	The scope of work against laying of 20/32 mm pipe also includes works like making of PCC pedestal of grade (1:2:4) and size (300mm(L)X200mm(W) XHeight (H)), (H>=300mm & will be as per site condition)), supply and installation of GI Sleeve (Heavy (C-Class) as per IS-1239), filling of sand and installation of TF (along with supply).					
17	Pneumatic testing, purging with nitrogen and commissioning as per specification and approved procedures providing all tools and tackles, nitrogen, instruments, manpower and other related accessories and as per the instructions of the Engineer-in-charge.					
18	Final clean-up of right-of-use or area disturbed by contractor during their construction activities for laying of pipeline works and disposal of debris and surplus material to designated disposal areas and backfilling of trench and compaction of the same as per satisfaction of Owner and / or as directed by Engineer-in-charge.					
19	Maintaining the completed pipelines and installation for any defect or failures during defect liability period (i.e. 12 months from date of completion of work).					
20	Handing over the completed works to Owner for their operation/ use, reconciliation of material area wise and obtaining "no objection certificate" from Owner/PNC					
21	Preparation and submission of Daily progress report, Laying Graphs / PE line cards on daily basis.					
22	On completion of gas charging of pipelines. Preparation and submission of As-built drawings, crossings details, termination, utility graphs and deviation statements.					
23	In case, the minimum required depth is not possible due to site condition, necessary mitigation measures (for minimum top cover of 600mm) shall be required to be taken by contractor in consultation with EIC as per PNGRB Guidelines. No additional payment shall be admissible against the same. However required top cover can further be reduce till 375mm and payment against the same shall be made according to SOR item no. A00300.					
24	Submission of all documents required for contract closure in numbers as mentioned in contract.					
25	Any other activities not mentioned / covered explicitly above, but otherwise required for satisfactory completion / operation / safety / statutory / maintenance of the works shall also be covered under the scope of work and has to be completed by the Contractor within specified schedule at no extra cost to Owner. All the work shall be executed in accordance with the provision of contract.					

SCHEDULE OF RATES

LAYING OF PE PIPELINE NETWORK INCLUDING ASSOCIATED WORKS FOR RANCHI GA: Tender No.: 05/51/Q7NT/GAIL/001-ii-13 (Tender ID: 2023_GAIL_150887)

Sl. No.	Item Description	Item Code / Make	Units	M/s Balaji Associates, Delhi		
				Quantity	Unit Rate (inclusive of all applicable taxes & duties & other levies (if any) payable by the Contractor under the Contract, or for any other cause except final GST) in Rupees	TOTAL AMOUNT (inclusive of all applicable taxes & duties & other levies (if any) payable by the Contractor under the Contract, or for any other cause except final GST) in Rupees
26	Pipeline Laying through Open Cut (Without casing) in any type of surface like unprepared surface (Katcha surface)/ Normal Surface/Hard Surface/Pebbles/Cobbles/Boulders/Structures etc (excluding Rocky strata)	A00102				
27	20 mm PE 100 pipe	A00103	Meter	300	242.45	72,734
28	32 mm PE 100 pipe	A00104	Meter	600	242.45	145,489
29	63 mm PE 100 pipe	A00105	Meter	150	282.86	42,428
30	90 mm PE 100 pipe	A00106	Meter	150	353.57	53,036
31	125 mm PE 100 pipe	A00107	Meter	150	429.34	64,400
32	Pipeline Laying Through Moling (without casing) in any type of surface like unprepared surface (Katcha surface)/ Normal Surface/Hard Surface/Pebbles/Cobbles/Boulders/Structures etc (excluding Rocky strata)	A00108				
33	20 mm PE 100 pipe	A00109	Meter	1,200	308.11	369,733
34	32 mm PE 100 pipe	A00110	Meter	1,200	308.11	369,733
35	Pipeline Laying Through HDD (without casing) in any type of surface like unprepared surface (Katcha surface)/ Normal Surface/Hard Surface/Pebbles/Cobbles/Boulders/Structures etc (excluding Rocky strata)	A00111				
36	32 mm PE 100 pipe	A00112	Meter	9,600	520.25	4,994,429
37	63 mm PE 100 pipe	A00113	Meter	4,800	555.61	2,666,928
38	90 mm PE 100 pipe	A00114	Meter	600	828.36	497,018
39	125 mm PE 100 pipe	A00115	Meter	900	1,116.27	1,004,644
40	Pipeline Laying through Open Cut (With casing) in any type of surface like unprepared surface (Katcha surface)/ Normal Surface/Hard Surface/Pebbles/Cobbles/Boulders/Structures etc (excluding Rocky strata)	A00116				
41	20 mm PE 100 pipe	A00117	Meter	300	353.57	106,071
42	32 mm PE 100 pipe	A00118	Meter	300	353.57	106,071
43	63 mm PE 100 pipe	A00119	Meter	60	575.81	34,549
44	90 mm PE 100 pipe	A00120	Meter	60	959.69	57,581
45	125 mm PE 100 pipe	A00121	Meter	60	1,601.17	96,070
46	Pipeline Laying Through Moling (with casing) in any type of surface like unprepared surface (Katcha surface)/ Normal Surface/Hard Surface/Pebbles/Cobbles/Boulders/Structures etc (excluding Rocky strata)	A00122				
47	20 mm PE 100 pipe	A00123	Meter	180	429.34	77,280
48	32 mm PE 100 pipe	A00124	Meter	180	429.34	77,280
49	Pipeline Laying Through HDD (with casing) in any type of surface like unprepared surface (Katcha surface)/ Normal Surface/Hard Surface/Pebbles/Cobbles/Boulders/Structures etc (excluding Rocky strata)	A00125				
50	32 mm PE 100 pipe	A00126	Meter	180	712.19	128,194
51	63 mm PE 100 pipe	A00127	Meter	60	1,550.66	93,039
52	90 mm PE 100 pipe	A00128	Meter	30	2,338.61	70,158
53	125 mm PE 100 pipe	A00129	Meter	30	3,212.44	96,373
54	Pipeline Laying through Open Cut (Without casing) for all type of Rocky strata	A00130				
55	20 mm PE 100 pipe	A00131	Meter	180	287.91	51,823
56	32 mm PE 100 pipe	A00132	Meter	180	287.91	51,823
57	63 mm PE 100 pipe	A00133	Meter	150	333.37	50,005
58	90 mm PE 100 pipe	A00134	Meter	150	419.23	62,885
59	125 mm PE 100 pipe	A00135	Meter	150	505.10	75,765

SCHEDULE OF RATES

LAYING OF PE PIPELINE NETWORK, INCLUDING ASSOCIATED WORKS FOR RANCHI GA: Tender No.: 05/51/Q7NT/GAIL/001-II-13 (Tender ID: 2023_GAIL_150887)

Sl. No.	Item Description	Item Code / Make	Units	M/s Balaji Associates, Delhi		
				Quantity	Unit Rate (inclusive of all applicable taxes & duties & other levies (if any) payable by the Contractor under the Contract, or for any other cause except final GST) in Rupees	TOTAL AMOUNT (inclusive of all applicable taxes & duties & other levies (if any) payable by the Contractor under the Contract, or for any other cause except final GST) in Rupees
60	Pipeline Laying Through Moling/without casing/for all type of Rocky strata	A00136				
61	20 mm PE 100 pipe	A00137	Meter	720	363.67	261,844
62	32 mm PE 100 pipe	A00138	Meter	1,440	363.67	523,688
63	Pipeline Laying Through HDD (without casing) for all type of Rocky strata	A00139				
64	32 mm PE 100 pipe	A00140	Meter	1,800	666.73	1,200,118
65	63 mm PE 100 pipe	A00141	Meter	1,200	707.14	848,568
66	90 mm PE 100 pipe	A00142	Meter	300	1,055.66	316,698
67	125 mm PE 100 pipe	A00143	Meter	300	1,419.33	425,799
68	Pipeline Laying through Open Cut/With casing for all type of Rocky strata	A00144				
69	20 mm PE 100 pipe	A00145	Meter	300	399.03	119,709
70	32 mm PE 100 pipe	A00146	Meter	300	399.03	119,709
71	63 mm PE 100 pipe	A00147	Meter	60	636.43	38,186
72	90 mm PE 100 pipe	A00148	Meter	60	1,045.56	62,733
73	125 mm PE 100 pipe	A00149	Meter	60	1,717.34	103,040
74	Pipeline Laying Through Moling/with casing for all type of Rocky strata	A00150				
75	20 mm PE 100 pipe	A00151	Meter	300	489.95	146,984
76	32 mm PE 100 pipe	A00152	Meter	300	489.95	146,984
77	Pipeline Laying Through HDD (with casing) for all type of Rocky strata	A00153				
78	32 mm PE 100 pipe	A00154	Meter	300	883.93	265,178
79	63 mm PE 100 pipe	A00155	Meter	60	1,904.23	114,254
80	90 mm PE 100 pipe	A00156	Meter	30	2,843.71	85,311
81	125 mm PE 100 pipe	A00157	Meter	30	3,828.66	114,860
82	NOTE: i) The lengths of pipelines are tentative. ii) For restoration of asphalt / concrete roads, the item for construction of asphalt top / concrete top / Tiles/Stone slab/Paver Blocks/Curb Stones/RCC Top shall be paid separately as per the rates quoted for the same elsewhere in the SOR. iii) For SOR item No. A00116 to A00129, A00144 to A00157 payment for length of PE pipe will be done as per casing pipe length. iv) Payment for items above under pipeline laying in all type of rocky strata shall be made only wherever hard rock is existing and supply and installation of padding materials (i.e. sand/soft soil) shall be done as per the direction of EIC. Bidders to quote accordingly.					
83	Civil Work/Cutting/ Breaking and Restoration	A00200				
84	Restoration of the roads, pavements, channels, footpaths, tiles, stones etc. to original condition including supply of the approved quality material required, as per local authorities norms, obtaining NOC from land owners/ third party inspection agencies/Consultant designated by GAIL and to the satisfaction of Engineer-in-charge.					
85	Asphalting	A00201	Meter	150	222.24	33,337
86	Breaking/Cutting of Cement Concrete-Making provision for PE Pipe laying as per site requirement and as per instruction of EIC.	A00202	Meter	1,800	86.39	159,107
87	Cement Concrete restoration as per scope of work (Excluding Breaking/Cutting)	A00203	Meter	1,800	621.27	1,118,291
88	Breaking/Cutting of RCC Core- Making provision for PE Pipe laying as per site requirement and as per instruction of EIC.	A00204	Meter	1,800	138.90	250,025
89	RCC restoration as per scope of work (Excluding Breaking/Cutting)	A00205	Meter	1,800	757.65	1,363,770
90	Tiles/ Paver/ Blocks/ Curb Stones, Red sand stone	A00206	Meter	7,200	227.30	1,636,524
91	Brick Soling/ Stone Soling, etc	A00207	Meter	1,800	161.63	290,938

SCHEDULE OF RATES

LAYING OF PE PIPELINE NETWORK INCLUDING ASSOCIATED WORKS FOR RANCHI GA: Tender No.: 05/51/Q7NT/GAIL/001-II-13 (Tender ID: 2023_GAIL_150887)

Sl. No.	Item Description	Item Code / Make	Units	M/s Balaji Associates, Delhi		
				Quantity	Unit Rate (Inclusive of all applicable taxes & duties & other levies (if any) payable by the Contractor under the Contract, or for any other cause except final GST) in Rupees	TOTAL AMOUNT (Inclusive of all applicable taxes & duties & other levies (if any) payable by the Contractor under the Contract, or for any other cause except final GST) in Rupees
92	Providing, hoisting and placing of 75 mm thick precast reinforced concrete slab of M-20 grade over pipeline as mechanical protection including the cost of required centering, shuttering, reinforcement complete as per tender drawing and direction of the EIC. Note:- Size (Length x Width) of the precast slab will be decided as per site condition and as per instruction of EIC. Precast slab will be placed in multiple number and various location as per site condition and as per instruction of EIC.	A00208	Cubic Meter	18	7,071.40	127,285
93	Valve Pit Chamber (Brick Masonry) Constructing valve pit chamber in brick masonry with cement mortar 1:4 (1 cement : 4 coarse sand) over 150 mm thick RCC Foundation along with 75 mm thick levelling course in 1:4:8 mix including 16 mm thick plastering with cement mortar 1:3 (1 cement : 3 coarse sand) and PCC pedestal for Valve support (if required) complete as per specification, drawings and direction of EIC. Valve Pit Chamber shall be covered with 150 mm thick RCC top slab of M-25 grade with manhole cover (medium duty) along with frame as per IS 1726. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 45 grade cement, reinforcement, CI manhole cover, PVC coated rungs, inserts including excavation and backfilling, masonry works, plastering, etc. with all bye works and sundry works.	A00209				
94	Type I : Inside size 1500 mm x 1000 mm and upto 1500 mm deep	A00210	Each	4	20,204.00	80,816
95	Type II : Inside size 1500 mm x 1000 mm and greater than 1500 mm deep	A00211	Each	2	25,255.00	50,510
96	Valve Pit Chamber (RCC) Constructing valve pit chamber in RCC of grade M-25 over 75 mm thick levelling course in 1:4:8 mix including 16 mm thick plastering with cement mortar 1:3 (1 cement : 3 coarse sand) and PCC pedestal for Valve support (if required) complete as per specification, drawings and direction of EIC. Valve Pit Chamber shall be covered with 150 mm thick RCC top slab of M-25 grade with manhole cover (medium duty) along with frame as per IS 1726. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 45 grade cement, reinforcement, CI manhole cover, PVC coated rungs, inserts including excavation and backfilling, masonry works, plastering, etc. with all bye works and sundry works.	A00212				
97	Type I : Inside size 1500 mm x 1000 mm and upto 1500 mm deep	A00213	Each	2	37,882.50	75,765
98	Type II : Inside size 1500 mm x 1000 mm and greater than 1500 mm deep	A00214	Each	1	47,984.50	47,985
99	Note: The tender drawing enclosed is only for reference purpose and contractor shall be required to prepare drawings (in line with reference tender drawing) for specific sizes of Valve pits and the same shall be approved by EIC.					
100	Pipe laying inside Private Property i.e. Multistory buildings / apartments with no movement of Heavy Vehicles, surrounded with Boundary wall where pipe top cover could not be achieved 600 mm.	A00300				
101	Minimum pipe top cover of 375 mm is required and the line pressure shall not exceed 110mbar.					
102	Necessary mitigation measures such as RCC slab (150mm thick and 300mm width) at the top, the RCC slab of the roof of basement shall be treated as bottom. There shall be sand filling across three sides of the line pipe of 100mm each shall be required to be taken by contractor in consultation with EIC as per latest PNGRB Guidelines. No additional payment shall be admissible against the same.					
103	Receipt, Loading, unloading, storing, reloading, transportation, unloading, stringing and laying of 20mm, 32mm & 63mm PE pipe (PE 100 SDR11) including proper stacking, identification and supply of accessories of below mentioned sizes & all thickness like PE Bends, Couplers, Endcaps, Tee, Reducer, CS / GI to PE Fittings (i.e. Transition Fittings of sizes 20 mm to 63 mm), Warning Mat etc. Handling, Stringing / uncoiling, aligning of the PE line pipe on the pipeline Right-of-Use / route, laying / installation of PE line pipe alongwith required accessories as mentioned above as per specification wherever required depending on site condition including execution of all works; Storage of material in contractor's store, fabrication, access for construction procurement and supply of all materials, consumables, equipments, labour and other inputs. In the case of free issue items, the scope also includes, receiving and loading from Owner's designated store, transportation, unloading and stacking of free issue items at Contractor's store.					
104	Carrying out all temporary, ancillary, auxiliary works required to make the PE pipeline ready for commissioning as per drawing.					

SCHEDULE OF RATES

LAYING OF PE PIPELINE NETWORK INCLUDING ASSOCIATED WORKS FOR RANCHI GA: Tender No.: 05/51/Q7NT/GAIL/001-II-13 (Tender ID: 2023_GAIL_150887)

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105	Surveying of route and detours required at the time of execution, preparation of construction drawings showing survey details, and submit same to Owner for review / approval.					
106	Preparation and getting approval of schedules, execution procedures, drawings/ sketches/ wherever required, making trial pits to determine the underground utilities/ services etc., restoration of the abandoned trial pits to original condition.					
107	Barricading the pipeline construction area prior to execution of the works as per drawing no. MEC/23QH/05/25/M/000/011 & MEC/23QH/05/25/M/000/10 enclosed with tender document and to the entire satisfaction of owner / engineer-in-charge.					
108	Laying using open trench without casing includes survey of under ground utilities (through trial pits), execution of work as per specification including Trenching to all depths by excavation in all types of soils including soft/ rocky strata (rock cutting to be paid separately as per SOR no 1.120) and different type of pavement / footpath / roads etc. including rock breaking, chiselling or otherwise cutting etc. as required and storing excavated soil, reusable materials at designated area as directed by Engineer in charge and to a width to accommodate the pipeline as per the relevant standard/ specification etc. [The minimum depth of the top of pipeline shall be 1.0 m measured from top of pipeline to the top of undisturbed surface of the soil or as per Specification/ OISD- 226 & PNGRB latest guidelines whichever is higher]. Dewatering of trenches / pits if required as per site condition. Repairing of all damaged utilities if any, and payment of any compensation (if claimed by owner / other utility agencies)					
109	Uncoiling / stringing & aligning of PE pipes, clamping, jointing of the pipe ends / fittings / valves by qualified personnel using approved electro-fusion techniques as per specification.					
110	Installation / lowering the pipeline in trench to required depth, supply & placement of HDPE Yellow colour warning mat (refer PIS item:- 4.2) over the pipeline along the complete route as per drawing no. MEC/U999/05/11/C/ and backfilling to its original condition with excavated earth / borrowed select soil / sand duly approved by EIC & its compaction & crowning. At certain specific area of ROU, trench shall be backfilled & compacted and shall be made ready for motorable. All tiles / slabs / curb stones etc removed during excavation shall be placed properly and no separate payment shall be admissible against this activity. Restoration shall be carried as per separate SOR item mentioned elsewhere in the SOR or to be done by Owner / concerned authorities.					
111	The scope of work against laying of 20/32 mm pipe also includes works like making of PCC pedestal of grade (1:2:4) and size (300mm(L)X200mm(W) Xheight (H)), (H>=300mm & will be as per site condition)), supply and installation of GI Sleeve (Heavy (C-Class) as per IS-1239), filling of sand and installation of TF (along with supply).					
112	Pneumatic testing, purging with nitrogen and commissioning as per specification and approved procedures providing all tools and tackles, nitrogen, instruments, manpower and other related accessories and as per the instructions of the Engineer-in-charge.					
113	Final clean-up of right-of-use or area disturbed by contractor during their construction activities for laying of pipeline works and disposal of debris and surplus material to designated disposal areas and backfilling of trench and compaction of the same as per satisfaction of Owner and / or as directed by Engineer-in-charge.					
114	Maintaining the completed pipelines and installation for any defect or failures during defect liability period (i.e. 12 months from date of completion of work).					
115	Handing over the completed works to Owner for their operation/ use, reconciliation of material area wise and obtaining "no objection certificate" from Owner/ Consultant.					
116	On completion of gas charging of pipelines. Preparation and submission of As-built drawings, crossings details, termination, utility graphs and deviation statements.					
117	Any other activities not mentioned / covered explicitly above, but otherwise required for satisfactory completion / operation / safety / statutory / maintenance of the works shall also be covered under the scope of work and has to be completed by the Contractor within specified schedule at no extra cost to Owner. All the work shall be executed in accordance with the provision of contract.					
118	20 mm PE 100 pipe	A00301	Meter	600	361.15	216,688
119	32 mm PE 100 pipe	A00302	Meter	1,440	376.30	541,871

SCHEDULE OF RATES

LAYING OF PE PIPELINE NETWORK INCLUDING ASSOCIATED WORKS FOR RANCHI GA: Tender No.: 05/51/Q7NT/GAIL/001-II-13 (Tender ID: 2023_GAIL_150887)

Sl. No.	Item Description	Item Code / Make	Units	M/s Balaji Associates, Delhi		
				Quantity	Unit Rate (inclusive of all applicable taxes & duties & other levies [(if any) payable by the Contractor under the Contract, or for any other cause except final GST] in Rupees	TOTAL AMOUNT (inclusive of all applicable taxes & duties & other levies [(if any) payable by the Contractor under the Contract, or for any other cause except final GST] in Rupees
120	Supply of GI/ MS/ Concrete Sleeves (wherever required as a Special Case as per instructions of the Engineer-in-charge)	A00400				
121	Supply, installation of sleeve, insertion of pipe, sealing the annuals, firm fixing of Sleeves with concrete mix. Breaking through any obstructions and their subsequent restoration, as per specifications and instructions of the Engineer-in-charge.					
	GI/MS Pipes shall be Heavy (C-Class) as per IS-1239					
122	GI Sleeves /Concrete Sleeves					
123	2 1/2" NB, 1' Length	A00401	Nos.	150	146.48	21,972
124	4" NB, 1' Length	A00402	Nos.	6	257.60	1,546
125	MS Enamel Coated					
126	4" NB, 3' Length	A00403	Sq. Metre	6	590.97	3,546
127	Concrete Sleeve (NP-2 Class)					
128	4" NB, 3' Length	A00404	Sq. Metre	6	146.48	879
129	6" NB, 3' Length	A00405	Sq. Metre	6	237.40	1,424
130	Note: The decision regarding use of type of sleeves to be used at various locations shall be made by Engineer In-Charge / Owner					
131	Installation of valve(Normal stem) in pit including supply of valves	A00500				
132	Supply of isolation valves (as per data sheet) and installation of valves in the valve pits as per typical drawing and specification enclosed and instructions of Engineer-in-charge. Payment of valve pits shall be paid separately as per SOR.					
133	PE Valve 32 mm dia	A00501	Nos.	12	3,485.19	41,822
134	PE Valve 63 mm dia	A00502	Nos.	4	7,697.72	30,791
135	PE Valve 90 mm dia	A00503	Nos.	1	11,970.87	11,971
136	PE Valve 125mm dia	A00504	Nos.	1	16,531.92	16,532
137	Installation of valve(Long stem) in pit including supply of valves	A00600				
138	Supply of isolation valves (as per data sheet) and installation of valves in the valve pits as per typical drawing and specification enclosed and instructions of Engineer-in-charge. Payment of valve pits shall be paid separately as per SOR.					
139	PE Valve(Long stem) 32 mm dia	A00601	Nos.	6	3,838.76	23,033
140	PE Valve(Long stem) 63 mm dia	A00602	Nos.	2	8,485.68	16,971
141	PE Valve(Long stem) 90 mm dia	A00603	Nos.	1	13,183.11	13,183
142	PE Valve(Long stem) 125mm dia	A00604	Nos.	1	18,183.60	18,184
143	Fabrication & Installation of Markers					
144	RCC Route Markers					
145	Supply, fabrication and installation of RCC route markers as per the attached drawing in technical volume, along the route including all associated civil works such as excavation and construction in all types of soils, construction and pedestals and grouting with concrete.	A00801	Nos.	750	303.06	227,295
146	Pole Markers with Foundation					
147	Supply, fabrication and installation of plate markers as per the attached drawings in technical volume including all associated civil works such as excavation and construction in all types of soils, construction and pedestals and grouting with concrete, cleaning, stencil let.	A00802	Nos.	150	1,687.03	253,055
148	Warning Plate Markers					
149	Supply, fabrication and installation of plate markers, including application of approved color and quality of primer and paint, stencil letter cutting of lettering, numbers, direction, etc. as per the attached drawing in technical volume to be installed near regulator.	A00803	Nos.	300	313.16	93,949

SCHEDULE OF RATES

LAYING OF PE PIPELINE NETWORK INCLUDING ASSOCIATED WORKS FOR RANCHI GA: Tender No.: 05/51/Q7NT/GAIL/001-II-13 [Tender ID: 2023_GAIL_150887]

Sl. No.	Item Description	Item Code / Make	Units	M/s Balaji Associates, Delhi		
				Quantity	Unit Rate (inclusive of all applicable taxes & duties & other levies (if any) payable by the Contractor under the Contract, or for any other cause except final GST) in Rupees	TOTAL AMOUNT (inclusive of all applicable taxes & duties & other levies (if any) payable by the Contractor under the Contract, or for any other cause except final GST) in Rupees
150	Paver Block-Tiles Markers					
151	Supply, fabrication and installation of Paver Block-Tiles markers, including application of approved color and quality of primer and paint; stencil letter cutting of lettering, numbers, direction, etc. as per the attached drawings to be installed on Paver Block/Tiles on foot Path/As per the instruction of EIC.	A00804	Nos	60	292.96	17,577
152	Construction of RCC structure for protection of service line for drain/naallah Crossings	A00900				
153	Construction of Non suspended slabs/pavement slabs including pedestal/ramp etc.using reinforced cement concrete of M-25 grade (Concrete shall be design mix/nominal mix with 20 mm & down size graded crushed stone aggregates) to protect the PE pipe laid. All necessary form work, finishing the top surface rough/smooth as required in any position, shape, level and thickness etc. shall be as specified and directed by EIC. The rates shall include grouting of pockets, supply of all material, tools, reinforcement steel etc.	A00901	Cubic Meter	6	10,379.81	62,279
154	GPR Survey (Scope includes submission of GPR survey report before/after obtaining permission for excavation from land owning agencies with complete satisfaction of the land owning agency & Owner)	A01000				
155	GPR Survey - Length up to 100 meter	A01001	Nos.	24	6,566.30	157,591
156	GPR Survey - Length more than 100 meter	A01002	RM	1,500	65.66	98,495
157	Note :-In case GPR survey length exceeds 100m, for quantity beyond 100m, amount in addition to SOR item no. A01001, shall be payable based on per meter rate quoted against SOR item No. A01002					
158	Additional Backfilling of Sand in excavated trench/Pit as per site requirement					
159	Filling of M-Sand/Soft soil as per the site requirement and as per the instructions of EIC (except the sand padding as mentioned SOR item No. A00101)	A01200				
160	DRS/DCU/DRS cum DCU works	A01201	Cu-Meter	15	732.40	10,986
161	Installation of DRS/DCU/DRS cum DCU	B00100				
162	Receiving and taking over, handling, loading, transportation and unloading of DRS/DCU/DRS cum DCU from Owner's designated stockyards to site, installation at foundation (including supply of all structural items) and hooking up with PE pipe including all works as required to complete the job as per the drawings and specification, scope of work mentioned in tender document. The scope includes supply of transition fittings and other PE and CS fittings as per requirements and various associated works (including steel welding) to commission DRS/DCU/DRS cum DCU.	B00101				
Note: 1) Amount towards civil work shall be payable as per related SOR items. 2) Rate to include cost of all labour, tools, tackles, equipment, hire charges. 3) Bolts, nuts, washer, U-clamps, gaskets etc. if required during installation shall be procured and supplied by the Contractor within the rate quoted. These items shall not be separately measured and paid.						
163	DCU/DRS cum DCU. (Maximum weight of single DCU/DRS cum DCU shall be about 6.0 T)					
164	Note: i) The quantities mentioned are indicative only. ii) For all the supply items mentioned above, procurement shall be made as per specification after due approval of engineer-in-charge.	B00102	Nos.	1	28,432.08	28,432



SCHEDULE OF RATES

LAYING OF PE PIPELINE NETWORK INCLUDING ASSOCIATED WORKS FOR RANCHI GA: Tender No.: 05/51/O7NT/GAIL/001-ii-13 (Tender ID: 2023_GAIL_150887)

Sl. No.	Item Description	Item Code / Make	Units	M/s Balaji Associates, Delhi		
				Quantity	Unit Rate (inclusive of all applicable taxes & duties & other levies (if any) payable by the Contractor under the Contract, or for any other cause except final GST) in Rupees	TOTAL AMOUNT (inclusive of all applicable taxes & duties & other levies (if any) payable by the Contractor under the Contract, or for any other cause except final GST) in Rupees
165	CIVIL WORKS					
166	Earth Work Earth in excavation and filling to the grades and levels shown in the approved drawings in all kinds of conditions including for Road embankments, using approved quality good earth from designated borrow area, for all heights and depths including clearing and stripping (min. 150 mm) of the area marked for filling, taking spot levels, consolidating the exposed natural soil surface, excavating the earth from borrow area loading, transporting & unloading, spreading in layers not exceeding 150 mm thickness, breaking clods, watering (if reqd.), ramming and compacting by manual/mechanical means to give minimum 92% of modified Proctor's density of earth, testing & dressing including disposal of all unserviceable material all complete as per specifications and directions of Engineer-in-charge. (Rate to include cost of all labour, tools, tackles, equipment, hire charges, cost of borrow earth by way of royalties, right of way, cess etc., as applicable with all bye works and sundry works).	C00100	Cubic Meter	12	287.91	3,455
167	PCC 1:2:4 1 Cement : 2 Coarse sand : 4 stone aggregate 20mm nominal size.	C00200	Cubic Meter	6	3,823.61	22,942
168	PCC 1:4:8 1 Cement : 4 Coarse sand : 8 stone aggregate 40mm nominal size.	C00300	Cubic Meter	3	3,081.11	9,243
169	(Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials, shuttering, earthwork in excavation and backfilling using approved earth in all conditions etc. with all bye works and sundry works.)					
170	Reinforced Cement Concrete	C00400				
171	Providing and laying reinforced cement of grade M-25 with 20mm and down grade crushed stone aggregate in all types of structures like foundations, pedestals, pedestal bases, pipe supports, sleepers, column, equipment foundation, cable trench including construction joints, bitumen painting on surface in contact with soil, supplying and fixing reinforcing steel, shuttering, inserts, finishes etc. at all depths and heights complete as per drawings, specifications and direction of the Engineer-in-charge.	C00401	Cubic Meter	6	10,379.81	62,279
172	Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 43 grade cement including sulphate resistant cement for sub-structures, R/F steel, inserts, bolts, conduits, bitumen, other minor construction materials, shuttering, staging, earthwork in excavation and backfilling using serviceable earth in all conditions, shorting bailing and pumping out water, testing of concrete, curing etc. with all bye works and sundry works.					
173	Brick Work	C00500				
174	Providing brick work with brick class designation M-7.5 of IS:1077 in cm1:4 (1 cement : 4 sand) in steps, walls, retaining walls and load bearing structures drains, or any shape with all lead, depths & height including curbing, scaffolding, etc., as per specifications and drawings with all bye-works and direction of the Engineer-in-charge.	C00501	Cubic Meter	12	3,939.78	47,277
175	(Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 43 grade cement, bricks, finishes, bitumen, other minor construction materials, shuttering, staging, masonry work, plastering, painting etc. with all bye-works and sundry works).					
176	Note: The quantities of individual item can varied as per site requirement. The payment will be made as per actual certified measurement at site.					
177	Laying of Brick layer/ Concrete	C00600				
178	Providing single layer of Brick / Concrete / or impact resistant tape to entire width of trench above Warning Mat placed in trench over the laid pipeline as per OISD 226, standard drawing, specification and instruction of Owner. (Rate to include cost of all labour, tools, tackles, equipment, hire charges & supply of all materials, etc)					
179	Brick Layer for width of PE pipeline trench as per drawing (75 mm thk.)	C00601	Square	12	176.79	2,121
180	Concrete for width of PE pipeline trench as per drawing (80 mm thk.)	C00602	Square	12	267.70	3,212

SCHEDULE OF RATES

LAYING OF PE PIPELINE NETWORK INCLUDING ASSOCIATED WORKS FOR RANCHI GA: Tender No: 05/51/Q7NT/GAIL/001-ii-13 (Tender ID: 2023_GAIL_150887)

Sl. No.	Item Description	Item Code / Make	Units	M/s Balaji Associates, Delhi		
				Quantity	Unit Rate (inclusive of all applicable taxes & duties & other levies (if any) payable by the Contractor under the Contract, or for any other cause except final GST) in Rupees	TOTAL AMOUNT (inclusive of all applicable taxes & duties & other levies (if any) payable by the Contractor under the Contract, or for any other cause except final GST) in Rupees
181	Demolition of PCC work below plinth level	C00700				
182	Demolishing plain cement concrete (PCC) work (taking all necessary safety precautions) for all depths below plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning, etc., disposal of unserviceable material outside the boundary limits keeping the owner indemnified of any liabilities from statutory/local bodies, all complete work as specified and directed	C00701	Cubic Meter	6	1,515.30	9,092
183	Excavation for foundation works	C00800				
184	Excavation as per plan, upto 3 meters and upto any lead in all conditions, backfilling using serviceable earth and disposal of surplus and unserviceable earth. Soil to be levelled and neatly dressed complete in all respect as per scope of work, technical specification and directions of EIC.					
185	Upto 3.0 Mtrs	C00801	Cubic	6	1,060.71	6,364
186	Dismantling of RCC & cutting of reinforcement (Thickness above 3")	C00802	Cubic	6	1,843.62	11,062
187	Structural Works	D00100				
188	Providing and fixing Fencing Structure	D00101				
189	Supplying, fabricating & fixing GI wire fencing fabricated from GI wire conforming to IS: and 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 pockets & pouring, with PCC (1:2:4) in of block for fixing of posts etc including Y type angle and barbed wire (900 mm) complete as per enclosed drawing, technical specifications, scope of works and directions of the Engineer-In-Charge.					
190	Fencing height 2.1m alongwith barbed wire of height atleast 900 mm on Y type angle.	D00102	RM	24	2,227.49	53,460
191	Providing and fixing Fencing Gates	C00201				
192	Supplying, fabricating & fixing fencing gates 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, painting with enamel paint in approved shade including supply of all raw materials, bolts, electrodes, transportation etc complete as per enclosed sketch, technical specifications and directions of the Engineer-In-Charge.					
193	4m Wide x 2.1m High	D00202	Nos.	1	38,983.62	38,984
194	3m Wide x 2.1m High	D00203	Nos.	1	22,274.91	22,275
195	1m Wide x 2.1m High	D00204	Nos.	1	10,026.24	10,026
196	Preservation of Pipeline	E00100				
197	Preservation of pipeline sections and associated facilities (in event of delay in 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.					
198	By filling and pressurizing with nitrogen to a pressure of 2 bar(g) for a period of one month or part thereof.	E00101				
199	For 125 mm Pipeline	E00102	Meter	300	9.60	2,879
200	For 90 mm Pipeline	E00103	Meter	300	8.59	2,576
201	For 63 mm Pipeline	E00104	Meter	300	7.07	2,121
202	For 32 mm Pipeline	E00105	Meter	600	6.06	3,637
203	For 20 mm Pipeline	E00106	Meter	600	5.56	3,334
204	For every additional period of one month or part thereof Limited to 6 month	E00201				
205	For 125 mm Pipeline	E00202	Meter	300	5.05	1,515
206	For 90 mm Pipeline	E00203	Meter	300	4.55	1,364
207	For 63 mm Pipeline	E00204	Meter	300	4.04	1,212
208	For 32 mm Pipeline	E00205	Meter	600	3.54	2,121

SCHEDULE OF RATES

LAYING OF PE PIPELINE NETWORK INCLUDING ASSOCIATED WORKS FOR RANCHI GA: Tender No.: 05/51/Q7NT/GAIL/001-ii-13 (Tender ID: 2023_GAIL_150857)

Sl. No.	Item Description	Item Code / Make	Units	M/s Balaji Associates, Delhi		
				Quantity	Unit rate (inclusive of all applicable taxes & duties & other levies (if any) payable by the Contractor under the Contract, or for any other cause except final GST) in Rupees	TOTAL AMOUNT (inclusive of all applicable taxes & duties & other levies (if any) payable by the Contractor under the Contract, or for any other cause except final GST) in Rupees
209	For 20 mm Pipeline	E00206	Meter	600	3.03	1,818
210	Notes: i) The above length is not for a single section but for no. of sections. ii) All accessories i.e. End caps and two nos. tapings of 3/4 inches, PG to be considered per section and rate for the same shall be quoted by bidder under this item. iii) If month is partially complete, payment shall be made on pro-rata basis. iv) Scope includes pressure holding for a period of 6 months or as per EIC and jointing of PE pipe (if required) due to damage by any means and further filling of nitrogen for pressure holding.					
211	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. (ii) The bidder must indicate currency(ies) against each quoted item of the SOR. (iii) The total amount shall also be given by the bidder in the quoted currency(ies). (iv) Some of the may / may not be execute as per site requirements.					
212	Liaisoning with Land Owning Agencies for Permission Submission of applications as per approved drawing provided by owner / owner's representative (Initial Route survey, preparation of drawing, measuring and providing details of surface type shall be in scope of contractor), obtaining and submission of demand note, coordination, Liaisoning, obtaining written permission from land owning agencies like NHAI, AAI, Indian Railways and any other government agencies who maintains the public lands and agencies owing Private lands etc. (all fee paid to authorities excluding demand charges or Bank Guarantees shall be reimbursed against documentary evidence). This rates are not applicable for Private lands i.e. Apartments etc. Permissions required from various authorities like NHAI / Railways / Irrigation (Canal) etc. falling enroute shall be inclusive in the item rate.	F00100	KM	6	13,506.37	81,038
	Total Excluding GST					23,959,014
	Total Including 18% GST					28,271,637



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)
13th & 15th Floor, North Tower, Scope Minar, Laxmi Nagar District Center, Delhi-110092, (INDIA)
फोन / Phone : +91-11-2244 7417, CIN : U74140JH1973GOI001199
GSTIN : 07AACCM2119B1Z4 वेबसाइट / Website : <http://meconlimited.co.in>

स्वीकृति का फैक्स / FAX OF ACCEPTANCE (FOA)

FOA NO. 05/51/Q7NT/GAIL/001-ii-13/FOA-958

DATE: 15.07.2023

TO : M/S S. KUMAR CONSTRUCTION CO.
PHONE : +91- 011- 29962409, 9810367698
EMAIL : skumarconstructioncompany@gmail.com
ATTN : MR. SHEETAL KUMAR AGGARWAL, PARTNER
FROM : SR. GM (CONTRACTS), MECON LIMITED, DELHI

PLEASE REFER TO YOUR OFFER NO. NIL DTD. BIL (NIC BID ID: 547554) AND ALL OTHER SUBSEQUENT CORRESPONDENCE AGAINST BIDDING DOCUMENT NO. 05/51/Q7NT/GAIL/001-II-13 DATED 06.04.2023 (TENDER ID: 2023 GAIL 150887) & COMMERCIAL CORRIGENDUM #1 DATED 15.04.2023 FOR LAYING OF PE PIPELINE NETWORK INCLUDING ASSOCIATED WORKS FOR RANCHI GA FOR CGD PROJECT AT SIX GAS FOR GAIL (INDIA) LIMITED (.)

WE HEREBY ISSUE THIS FAX OF ACCEPTANCE (FOA) FOR AWARD FOR APPROX. 40% OF SCOPE OF WORK OF TENDER AT AN ESTIMATED CONTRACT VALUE OF RS. 1,59,71,297/- (INDIAN RUPEES ONE CRORE FIFTY-NINE LAKHS SEVENTY-ONE THOUSAND TWO HUNDRED NINETY-SEVEN 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-I(.)

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

PLEASE SUBMIT CONTRACT PERFORMANCE BANK GUARANTEE@ 10% OF TOTAL 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 II) 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 authorized signatory)

राकेश शर्मा / RAKESH SHARMA

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

मेकॉन लिमिटेड, दिल्ली / MECON LIMITED, DELHI

CC: BY COURIER TO:

M/s S. Kumar Construction Co.
B-48, Khanpur Extn. Devli Road, Delhi- 110080
Tel No.: +91- 011- 29962409, 9810367698

प्रधान कार्यालय / Head Office :

कार्यालय / Office :

राँधी / Ranchi	बेंगलूर / Bangalore	मुम्बई / Mumbai	कोलकाता / Kolkata	चेन्नई / Chennai
+91-651-248 3000 (Phone)	+91-80-2657 1661-63 (Phone)	+91-22-2781 2155-58 (Phone)	+91-33-2282 2381-82 (Phone)	+91-44-2618 4873 (Phone)
+91-651-248 2189/248 2214 (Fax)	+91-80-2625 2000 (Phone)	+91-80-2781 2275 (Fax)	+91-33-2282 4441 (Fax)	+91-44-2618 4874 (Fax)
ranchi@meconlimited.co.in	+91-80-2657 6352 (Fax)	Mumbai@meconlimited.co.in	kolkata@meconlimited.co.in	chennai@meconlimited.co.in
	bangalore@meconlimited.co.in			

Annex 1 to POA NO. 05/51/07NT/GAIL/001 -ii-13/FOA/958 dtd. 15.7.23

SCHEDULE OF RATES

LAYING OF PE PIPELINE NETWORK INCLUDING ASSOCIATED WORKS FOR RANCHI GA: Tender No.: 05/51/07NT/GAIL/001-ii-13 (Tender ID: 2023_GAIL_150887)

LAYING OF PE PIPELINE NETWORK INCLUDING ASSOCIATED WORKS FOR KATCHA SURFACE					M/s S. Kumar Construction Co., Delhi		
Sl. No.	Item Description	Item Code / Make	Units	Quantity	Unit Rate (Inclusive of all applicable taxes & duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST) in Rupees	TOTAL AMOUNT (Inclusive of all applicable taxes & duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except	
1	PE PIPELINE	A00100					
2	Pipe Laying(Including crossing) in any type of surface like unprepared surface (katcha surface)/ Normal Surface/ Hard surface/Rock surface etc using open cut/ Molding (without Casing)/ Molding (with Casing)/Directional Drilling technique (with and without casing pipe) methodology.	A00101					
3	Receipt, Loading, unloading, storing, reloading, transportation, unloading, stringing and laying of PE100, SDR11 line pipes of all sizes including, proper stacking, identification, and supply of accessories of all sizes & thickness like PE Bends, Couplers, Endcaps, Tee, Reducer, CS / GI to PE Fittings (i.e. Transition Fittings of sizes 20 mm to 32 mm), Warning Mat etc. Handling, Stringing / uncolling, aligning of the PE line pipe on the pipeline Right-of-Use / route, laying / Installation of PE line pipe alongwith required accessories as mentioned above as per specification wherever required depending on site condition including execution of all works; Storage of material in contractor's store, fabrication, access for construction procurement and supply of all materials, consumables, equipments, labour and other inputs. In the case of free issue items, the scope also includes, receiving and loading from Owner's designated store, transportation, unloading and stacking of free issue items at Contractor's store. -Laying of all PE pipe (PE 100 SDR11), including supply of HDPE casing pipe (in case of HDD (with case), Molding(with case) , Couplers, End caps etc. (Ref. cl. 4.3 of Particular job specification). -Survey of under ground utilities, execution of the work as per specification, including excavation of pits moling with the hole size not exceeding 20% of the pipe dia, jointing and insertion of carrier pipe with casing, testing & commissioning and restoration of the pits to original condition, submission of As-Built Graph as per specifications and the instruction of Engineer-in-charge. -Casing details is as given below:- 1. For 20/32 mm PE pipe (in 75 mm dia. HDPE Casing Pipe, PE 63/80 PN6.0). 2. For 63 mm PE pipe (in 125 mm dia. HDPE Casing Pipe, PE 63/80 PN6.0). 3. For 90 mm pipe (in 180 mm dia. HDPE Casing Pipe, PE 63/80 PN6.0). 4. For 125 mm pipe (in 250 mm dia. HDPE Casing Pipe, PE63/80 PN 6.0).						
4	Carrying out all temporary, ancillary works required to make the PE pipeline ready for commissioning as per drawings.						
5	Specifications, scope of work indicated in PJS and Other provisions of Contract document and instructions of Engineer-in-charge, including but not limited to carrying out the following works:						
6	Surveying of route and detours required at the time of execution, preparation of construction drawings showing survey details and submit same to Owner for review / approval.						
7	Carrying out preliminary activities such as preparation of drawings wherever required for crossing etc.						
8	Preparation and getting approval of schedules, execution procedures, drawings/ sketches/ wherever required, making trial pits to determine the underground utilities/ services etc., restoration of the abandoned trial pits to original condition.						
9	Stacking and installation of construction markers, clearing, fencing, grubbing, cutting of trees, full filling all the requirements of various statutory/ environment authorities to the entire satisfaction of concerned authorities, grading of work area.						
10	Barricading the work area as per local authorities norms & to the satisfaction of Owner/ Engineer-in-charge, Installation of safety signs.						
11	Barricading the pipeline construction area prior to execution of the works as per drawing no. MEC/23QH/05/25/M/000/011 & MEC/23QH/05/25/M/000/10 enclosed with tender document and to the entire satisfaction of owner / engineer-in-charge.						

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12	Laying using open trench without casing includes survey of under ground utilities (through trial pits), execution of work as per specification including Trenching to all depths by excavation in all types of soils including soft/ rocky strata (Rock Cutting to be paid separately as per SOR No. A01100 to A01101) and different type of pavement / footpath / roads etc. Including rock breaking, chiselling or otherwise cutting etc. as required and storing excavated soil, reusable materials at designated area as directed by Engineer in charge and to a width to accommodate the pipeline as per the relevant standard/ specification etc. [The minimum depth of the top of pipeline shall be 1.0 m measured from top of pipeline to the top of undisturbed surface of the soil or as per Specification/ OISD- 226 & PNGRB latest guidelines whichever is higher]. Dewatering of trenches / pits if required as per site condition. Repairing of all damaged utilities if any, and payment of any compensation (if claimed by owner / other utility agencies)					
13	Uncoupling / stringing & aligning of PE pipes, clamping, jointing of the pipe ends / fittings / valves by qualified personnel using approved electro-fusion techniques as per specification.					
14	Installation / lowering the pipeline in trench to required depth as per PJS, Technical Specification & drawings, supply & placement of HDPE Yellow colour warning mat (refer PJS item.- 4.2) over the pipeline along the complete route as per standard drawings, data sheets & technical specifications, padding around pipeline including supply of suitable padding material duly approved by EIC, backfilling to its original condition with excavated earth / borrowed select soil/sand duly approved by EIC & its compaction & crowning. At certain specific area of ROU, trench shall be backfilled & compacted and shall be made ready for motorable. All tiles / slabs / curb stones etc removed during excavation shall be placed properly and no separate payment shall be admissible against this activity. Restoration shall be carried as per separate SOR item mentioned elsewhere in the SOR or to be done by Owner / concerned authorities.					
15	The scope of work against this item also include Electro-fusion jointing of valves, fittings wherever required and as directed by Engineer-in-charge.					
16	The scope of work against laying of 20/32 mm pipe also includes works like making of PCC pedestal of grade (1:2:4) and size (300mm(L)x200mm(W) xHeight (H)), (H>=300mm & will be as per site condition)), supply and installation of GI Sleeve (Heavy (C-Class) as per IS-1239), filling of sand and installation of TF (along with supply).					
17	Pneumatic testing, purging with nitrogen and commissioning as per specification and approved procedures providing all tools and tackles, nitrogen, instruments, manpower and other related accessories and as per the instructions of the Engineer-in-charge.					
18	Final clean-up of right-of-use or area disturbed by contractor during their construction activities for laying of pipeline works and disposal of debris and surplus material to designated disposal areas and backfilling of trench and compaction of the same as per satisfaction of Owner and / or as directed by Engineer-in-charge.					
19	Maintaining the completed pipelines and installation for any defect or failures during defect liability period (i.e. 12 months from date of completion of work).					
20	Handing over the completed works to Owner for their operation/ use, reconciliation of material area wise and obtaining "no objection certificate" from Owner/PMC					
21	Preparation and submission of Daily progress report, Laying Graphs / PE line cards on daily basis.					
22	On completion of gas charging of pipelines. Preparation and submission of As-built drawings, crossings details, termination, utility graphs and deviation statements.					

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23	In case, the minimum required depth is not possible due to site condition, necessary mitigation measures (for minimum top cover of 600mm) shall be required to be taken by contractor in consultation with EIC as per PNGRB Guidelines. No additional payment shall be admissible against the same. However required top cover can further be reduced till 375mm and payment against the same shall be made according to SOR item no. A00300.					
24	Submission of all documents required for contract closure in numbers as mentioned in contract.					
25	Any other activities not mentioned / covered explicitly above, but otherwise required for satisfactory completion / operation / safety / statutory / maintenance of the works shall also be covered under the scope of work and has to be completed by the Contractor within specified schedule at no extra cost to Owner. All the work shall be executed in accordance with the provision of contract.					
26	Pipeline Laying through Open Cut (Without casing) in any type of surface like unprepared surface (Katcha surface)/ Normal Surface/Hard Surface/Pebbles/Cobbles/Boulders/Structures etc (excluding Rocky strata)	A00102				
27	20 mm PE 100 pipe	A00103	Meter	200	242.45	48,490
28	32 mm PE 100 pipe	A00104	Meter	400	242.45	96,979
29	63 mm PE 100 pipe	A00105	Meter	100	282.86	28,286
30	90 mm PE 100 pipe	A00106	Meter	100	353.57	35,357
31	125 mm PE 100 pipe	A00107	Meter	100	429.34	42,934
32	Pipeline Laying Through Moling (without casing) in any type of surface like unprepared surface (Katcha surface)/ Normal Surface/Hard Surface/Pebbles/Cobbles/Boulders/Structures etc (excluding Rocky strata)	A00108				
33	20 mm PE 100 pipe	A00109	Meter	800	308.11	246,489
34	32 mm PE 100 pipe	A00110	Meter	800	308.11	246,489
35	Pipeline Laying Through HDD (without casing) in any type of surface like unprepared surface (Katcha surface)/ Normal Surface/Hard Surface/Pebbles/Cobbles/Boulders/Structures etc (excluding Rocky strata)	A00111				
36	32 mm PE 100 pipe	A00112	Meter	6,400	520.25	3,329,619
37	63 mm PE 100 pipe	A00113	Meter	3,200	555.61	1,777,952
38	90 mm PE 100 pipe	A00114	Meter	400	828.36	331,346
39	125 mm PE 100 pipe	A00115	Meter	600	1,116.27	669,763
40	Pipeline Laying through Open Cut (With casing) in any type of surface like unprepared surface (Katcha surface)/ Normal Surface/Hard Surface/Pebbles/Cobbles/Boulders/Structures etc (excluding Rocky strata)	A00116				
41	20 mm PE 100 pipe	A00117	Meter	200	353.57	70,714
42	32 mm PE 100 pipe	A00118	Meter	200	353.57	70,714
43	63 mm PE 100 pipe	A00119	Meter	40	575.81	23,033
44	90 mm PE 100 pipe	A00120	Meter	40	959.69	38,388
45	125 mm PE 100 pipe	A00121	Meter	40	1,601.17	64,047
46	Pipeline Laying Through Moling (with casing) in any type of surface like unprepared surface (Katcha surface)/ Normal Surface/Hard Surface/Pebbles/Cobbles/Boulders/Structures etc (excluding Rocky strata)	A00122				
47	20 mm PE 100 pipe	A00123	Meter	120	429.34	51,520
48	32 mm PE 100 pipe	A00124	Meter	120	429.34	51,520

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49	Pipeline Laying Through HDD (with casing) in any type of surface like unprepared surface (Katcha surface)/ Normal Surface/Hard Surface/Pebbles/Cobbles/Structures etc (excluding Rocky strata)	A00125				
50	32 mm PE 100 pipe	A00126	Meter	120	712.19	85,463
51	63 mm PE 100 pipe	A00127	Meter	40	1,550.66	62,026
52	90 mm PE 100 pipe	A00128	Meter	20	2,338.61	46,772
53	125 mm PE 100 pipe	A00129	Meter	20	3,212.44	64,249
54	Pipeline Laying through Open Cut (Without casing) for all type of Rocky strata	A00130				
55	20 mm PE 100 pipe	A00131	Meter	120	287.91	34,549
56	32 mm PE 100 pipe	A00132	Meter	120	287.91	34,549
57	63 mm PE 100 pipe	A00133	Meter	100	333.37	33,337
58	90 mm PE 100 pipe	A00134	Meter	100	419.23	41,923
59	125 mm PE 100 pipe	A00135	Meter	100	505.10	50,510
60	Pipeline Laying Through Moling (without casing) for all type of Rocky strata	A00136				
61	20 mm PE 100 pipe	A00137	Meter	480	363.67	174,563
62	32 mm PE 100 pipe	A00138	Meter	960	363.67	349,125
63	Pipeline Laying Through HDD (without casing) for all type of Rocky strata	A00139				
64	32 mm PE 100 pipe	A00140	Meter	1,200	666.73	800,078
65	63 mm PE 100 pipe	A00141	Meter	800	707.14	565,712
66	90 mm PE 100 pipe	A00142	Meter	200	1,055.66	211,132
67	125 mm PE 100 pipe	A00143	Meter	200	1,419.33	283,866
68	Pipeline Laying through Open Cut (With casing) for all type of Rocky strata	A00144				
69	20 mm PE 100 pipe	A00145	Meter	200	399.03	79,806
70	32 mm PE 100 pipe	A00146	Meter	200	399.03	79,806
71	63 mm PE 100 pipe	A00147	Meter	40	636.43	25,457
72	90 mm PE 100 pipe	A00148	Meter	40	1,045.56	41,822
73	125 mm PE 100 pipe	A00149	Meter	40	1,717.34	68,694
74	Pipeline Laying Through Moling (with casing) for all type of Rocky strata	A00150				
75	20 mm PE 100 pipe	A00151	Meter	200	489.95	97,989
76	32 mm PE 100 pipe	A00152	Meter	200	489.95	97,989
77	Pipeline Laying Through HDD (with casing) for all type of Rocky strata	A00153				
78	32 mm PE 100 pipe	A00154	Meter	200	883.93	176,785
79	63 mm PE 100 pipe	A00155	Meter	40	1,904.23	76,169
80	90 mm PE 100 pipe	A00156	Meter	20	2,843.71	56,874
81	125 mm PE 100 pipe	A00157	Meter	20	3,828.66	76,573

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82	NOTE: i) The lengths of pipelines are tentative. ii) For restoration of asphalt / concrete roads, the item for construction of asphalt top / concrete top / Tiles/Stone slab/Paver Blocks/Curb Stones/RCC Top shall be paid separately as per the rates quoted for the same elsewhere in the SOR. iii) For SOR Item No. A00116 to A00129, A00144 to A00157 payment for length of PE pipe will be done as per casing pipe length. iv) Payment for items above under pipeline laying in all type of rocky strata shall be made only wherever hard rock is existing and supply and installation of padding materials (i.e. sand/soft soil) shall be done as per the direction of EIC. Bidders to quote accordingly.					
83	Civil Work/Cutting/ Breaking and Restoration	A00200				
84	Restoration of the roads, pavements, channels, footpaths, tiles, stones etc. to original condition including supply of the approved quality material required, as per local authorities norms, obtaining NOC from land owners/ third party inspection agencies/Consultant designated by GAIL and to the satisfaction of Engineer-in-charge.					
85	Asphalting	A00201	Meter	100	222.24	22,224
86	Breaking/Cutting of Cement Concrete-Making provision for PE Pipe laying as per site requirement and as per instruction of EIC.	A00202	Meter	1,200	88.39	106,071
87	Cement Concrete restoration as per scope of work (Excluding Breaking/Cutting)	A00203	Meter	1,200	621.27	745,528
88	Breaking/Cutting of RCC Core- Making provision for PE Pipe laying as per site requirement and as per instruction of EIC.	A00204	Meter	1,200	138.90	166,683
89	RCC restoration as per scope of work (Excluding Breaking/Cutting)	A00205	Meter	1,200	757.65	909,180
90	Tiles/ Paver/ Blocks/ Curb Stones, Red sand stone	A00206	Meter	4,800	227.30	1,091,016
91	Brick Soling/ Stone Soling, etc	A00207	Meter	1,200	161.63	193,958
92	Providing, hoisting and placing of 75 mm thick precast reinforced cement concrete slab of M-20 grade over pipeline as mechanical protection including the cost of required centering, shuttering, reinforcement complete as per tender drawing and direction of the EIC. Note:- Size (Length x Width) of the precast slab will be decided as per site condition and as per instruction of EIC. Precast slab will be placed in multiple number and various location as per site condition and as per instruction of EIC.	A00208	Cubic Meter	12	7,071.40	84,857
93	Valve Pit Chamber (Brick Masonry) Constructing valve pit chamber in brick masonry with cement mortar 1:4 (1 cement : 4 coarse sand) over 150 mm thick RCC Foundation along with 75 mm thick levelling course in 1:4:8 mix including 16 mm thick plastering with cement mortar 1:3 (1 cement : 3 coarse sand) and PCC pedestal for Valve support (if required) complete as per specification, drawings and direction of EIC. Valve Pit Chamber shall be covered with 150 mm thick RCC top slab of M-25 grade with manhole cover (medium duty) along with frame as per IS 1726. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 45 grade cement, reinforcement, CI manhole cover, PVC coated rungs, inserts including excavation and backfilling, masonry works, plastering, etc. with all bye works and sundry works.	A00209				
94	Type I : Inside size 1500 mm x 1000 mm and upto 1500 mm deep	A00210	Each	2	20,204.00	40,408
95	Type II : Inside size 1500 mm x 1000 mm and greater than 1500 mm deep	A00211	Each	2	25,255.00	50,510

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96	Valve Pit Chamber (RCC) Constructing valve pit chamber in RCC of grade M-25 over 75 mm thick levelling course in 1:4:8 mix including 16 mm thick plastering with cement mortar 1:3 (1 cement : 3 coarse sand) and PCC pedestal for Valve support (if required) complete as per specification, drawings and direction of EIC. Valve Pit Chamber shall be covered with 150 mm thick RCC top slab of M-25 grade with manhole cover (medium duty) along with frame as per IS 1726. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 45 grade cement, reinforcement, CI manhole cover, PVC coated rungs, inserts including excavation and backfilling, masonry works, plastering, etc. with all bye works and sundry works.	A00212				
97	Type I: Inside size 1500 mm x 1000 mm and upto 1500 mm deep	A00213	Each	2	37,882.50	75,765
98	Type II: Inside size 1500 mm x 1000 mm and greater than 1500 mm deep	A00214	Each	1	47,984.50	47,985
99	Note: The tender drawing enclosed is only for reference purpose and contractor shall be required to prepare drawings (in line with reference tender drawing) for specific sizes of Valve pits and the same shall be approved by EIC.					
100	pipe laying inside Private Property i.e. Multistory buildings / apartments with no movement of Heavy Vehicles, surrounded with Boundary wall where pipe top cover could not be achieved 600 mm.	A00300				
101	Minimum pipe top cover of 375 mm is required and the line pressure shall not exceed 110mbar.					
102	Necessary mitigation measures such as RCC slab (150mm thick and 300mm width) at the top, the RCC slab of the roof of basement shall be treated as bottom. There shall be sand filling across three sides of the line pipe of 100mm each shall be required to be taken by contractor in consultation with EIC as per latest PNGRB Guidelines. No additional payment shall be admissible against the same.					
103	Receipt, Loading, unloading, storing, reloading, transportation, unloading, stringing and laying of 20mm, 32mm & 63mm PE pipe (PE 100 SDR11) including proper stacking, identification, and supply of accessories of below mentioned sizes & all thickness like PE Bends, Couplers, Endcaps, Tee, Reducer, CS / GI to PE Fittings (i.e. Transition Fittings of sizes 20 mm to 63 mm), Warning Mat etc. Handling, Stringing / uncoiling, aligning of the PE line pipe on the pipeline Right-of-Use / route, laying / installation of PE line pipe alongwith required accessories as mentioned above as per specification wherever required depending on site condition including execution of all works; Storage of material in contractor's store, fabrication, access for construction procurement and supply of all materials, consumables, equipments, labour and other inputs. In the case of free issue items, the scope also includes receiving and loading from Owner's designated store, transportation, unloading and stacking of free issue items at Contractor's store.					
104	Carrying out all temporary, ancillary, auxiliary works required to make the PE pipeline ready for commissioning as per drawing.					
105	Surveying of route and detours required at the time of execution, preparation of construction drawings showing survey details, and submit same to Owner for review / approval.					
106	Preparation and getting approval of schedules, execution procedures, drawings/ sketches/ wherever required, making trial pits to determine the underground utilities/ services etc., restoration of the abandoned trial pits to original condition.					
107	Barricading the pipeline construction area prior to execution of the works as per drawing no. MEC/23QH/05/25/M/000/011 & MEC/23QH/05/25/M/000/10 enclosed with tender document and to the entire satisfaction of owner / engineer-in-charge.					

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108	Laying using open trench without casing includes survey of under ground utilities (through trial pits), execution of work as per specification including Trenching to all depths by excavation in all types of soils including soft/ rocky strata (Rock Cutting to be paid separately as per SOR no 1.120) and different type of pavement / footpath / roads etc. including rock breaking, chiselling or otherwise cutting etc. as required and storing excavated soil, reusable materials at designated area as directed by Engineer in charge and to a width to accommodate the pipeline as per the relevant standard/ specification etc. [The minimum depth of the top of pipeline shall be 1.0 m measured from top of pipeline to the top of undisturbed surface of the soil or as per Specification/ OISD- 226 & PNGRB latest guidelines whichever is higher]. Dewatering of trenches / pits if required as per site condition. Repairing of all damaged utilities if any, and payment of any compensation (if claimed by owner / other utility agencies)					
109	Uncoupling / stringing & aligning of PE pipes, clamping, jointing of the pipe ends / fittings / valves by qualified personnel using approved electro-fusion techniques as per specification.					
110	Installation / lowering the pipeline in trench to required depth, supply & placement of HDPE Yellow colour warning mat (refer PJS Item.- 4.2) over the pipeline along the complete route as per drawing no. MEC/U999/05/11/C/ and backfilling to its original condition with excavated earth / borrowed select soil / sand duly approved by EIC & its compaction & crowning. At certain specific area of ROU, trench shall be backfilled & compacted and shall be made ready for motorable. All tiles / slabs / curb stones etc removed during excavation shall be placed properly and no separate payment shall be admissible against this activity. Restoration shall be carried as per separate SOR item mentioned elsewhere in the SOR or to be done by Owner / concerned authorities.					
111	The scope of work against laying of 20/32 mm pipe also includes works like making of PCC pedestal of grade (1:2:4) and size (300mm(L)X200mm(W) XHeight (H)), (H>=300mm & will be as per site condition)), supply and installation of GI Sleeve (Heavy (C-Class) as per IS-1239), filling of sand and installation of TF (along with supply).					
112	Pneumatic testing, purging with nitrogen and commissioning as per specification and approved procedures providing all tools and tackles, nitrogen, instruments, manpower and other related accessories and as per the instructions of the Engineer-in-charge.					
113	Final clean-up of right-of-use or area disturbed by contractor during their construction activities for laying of pipeline works and disposal of debris and surplus material to designated disposal areas and backfilling of trench and compaction of the same as per satisfaction of Owner and / or as directed by Engineer-In-charge.					
114	Maintaining the completed pipelines and installation for any defect or failures during defect liability period (i.e. 12 months from date of completion of work).					
115	Handing over the completed works to Owner for their operation/ use, reconciliation of material area wise and obtaining "no objection certificate" from Owner/ Consultant.					
116	On completion of gas charging of pipelines. Preparation and submission of As-built drawings, crossings details, termination, utility graphs and deviation statements.					
117	Any other activities not mentioned / covered explicitly above, but otherwise required for satisfactory completion / operation / safety / statutory / maintenance of the works shall also be covered under the scope of work and has to be completed by the Contractor within specified schedule at no extra cost to Owner. All the work shall be executed in accordance with the provision of contract.					
118	20 mm PE 100 pipe	A00301	Meter	400	361.15	144,459
119	32 mm PE 100 pipe	A00302	Meter	960	376.30	361,248

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120	Supply of GI/ MS/ Concrete Sleeves (wherever required as a Special Case as per instructions of the Engineer-in-charge)	A00400				
121	Supply, installation of sleeve, insertion of pipe, sealing the annulars, firm fixing of Sleeves with concrete mix. Breaking through any obstructions and their subsequent restoration, as per specifications and instructions of the Engineer-in-charge. GI/MS Pipes shall be Heavy (C-Class) as per IS-1239					
122	GI Sleeves / Concrete Sleeves					
123	2 1/2" NB, 1' Length	A00401	Nos.	100	146.48	14,648
124	4" NB, 1' Length	A00402	Nos.	4	257.60	1,030
125	MS Enamel Coated					
126	4" NB, 3' Length	A00403	Sq. Metre	4	590.97	2,364
127	Concrete Sleeve (NP-2 Class)					
128	4" NB, 3' Length	A00404	Sq. Metre	4	146.48	586
129	6" NB, 3' Length	A00405	Sq. Metre	4	237.40	950
130	Note: The decision regarding use of type of sleeves to be used at various locations shall be made by Engineer In-Charge / Owner	A00500				
131	Installation of valve (Normal stem) in pit including supply of valves					
132	Supply of isolation valves (as per data sheet) and installation of valves in the valve pits as per typical drawing and specification enclosed and instructions of Engineer-in-charge. Payment of valve pits shall be paid separately as per SOR.					
133	PE Valve 32 mm dia	A00501	Nos.	8	3,485.19	27,882
134	PE Valve 63 mm dia	A00502	Nos.	2	7,697.72	15,395
135	PE Valve 90 mm dia	A00503	Nos.	1	11,970.87	11,971
136	PE Valve 125mm dia	A00504	Nos.	1	16,531.92	16,532
137	Installation of valve (Long stem) in pit including supply of valves	A00600				
138	Supply of isolation valves (as per data sheet) and installation of valves in the valve pits as per typical drawing and specification enclosed and instructions of Engineer-in-charge. Payment of valve pits shall be paid separately as per SOR.					
139	PE Valve (Long stem) 32 mm dia	A00601	Nos.	4	3,838.76	15,355
140	PE Valve (Long stem) 63 mm dia	A00602	Nos.	2	8,485.68	16,971
141	PE Valve (Long Stem) 90 mm dia	A00603	Nos.	1	13,183.11	13,183
142	PE Valve (Long stem) 125mm dia	A00604	Nos.	1	18,183.60	18,184
143	Fabrication & Installation of Markers	A00800				
144	RCC Route Markers					
145	Supply, fabrication and installation of RCC route markers as per the attached drawing in technical volume, along the route including all associated civil works such as excavation and construction in all types of soils, construction and pedestals and grouting with concrete.	A00801	Nos.	500	303.06	151,530
146	Pole Markers with Foundation					
147	Supply, fabrication and installation of plate markers as per the attached drawings in technical volume including all associated civil works such as excavation and construction in all types of soils, construction and pedestals and grouting with concrete, cleaning, stencil let.	A00802	Nos.	100	1,687.03	168,703

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148	Warning Plate Markers					
149	Supply, fabrication and installation of plate markers, including application of approved color and quality of primer and paint, stencil letter cutting of lettering, numbers, direction, etc. as per the attached drawing in technical volume to be installed near regulator.	A0803	Nos	200	313.16	62,632
150	Paver Block-Tiles Markers					
151	Supply, fabrication and installation of Paver Block-Tiles markers, including application of approved color and quality of primer and paint, stencil letter cutting of lettering, numbers, direction, etc. as per the attached drawings to be installed on Paver Block/Tiles on foot Path/As per the instruction of EIC.	A0804	Nos	40	292.96	11,718
152	Construction of RCC structure for protection of service line for drain/hallah Crossings	A0900				
153	Construction of Non suspended slabs/pavement slabs including pedestal/ramp etc.using reinforced cement concrete of M-25 grade (Concrete shall be design mix/nominal mix with 20 mm & down size graded crushed stone aggregates) to protect the PE pipe laid. All necessary form work, finishing the top surface rough/smooth as required in any position, shape, level and thickness etc. shall be as specified and directed by EIC. The rates shall include grouting of pockets, supply of all material, tools, reinforcement steel etc.	A0901	Cubic Meter	4	10,379.81	41,519
154	GPR Survey (Scope includes submission of GPR survey report before/after obtaining permission for excavation from land owning agencies with complete satisfaction of the land owning agency & Owner)	A0100				
155	GPR Survey - Length up to 100 meter	A01001	Nos.	16	6,566.30	105,061
156	GPR Survey - Length more than 100 meter	A01002	RM	1,000	65.66	65,663
157	Note :-In case GPR survey length exceeds 100m, for quantity beyond 100m, amount in addition to SOR item no.- A01001, shall be payable based on per meter rate quoted against SOR item No. A01002					
158	Additional Backfilling of Sand in excavated trench/Pit as per site requirement	A01200				
159	Filling of M-Sand/Soft soil as per the site requirement and as per the instructions of EIC (except the sand padding as mentioned SOR item No. A00101).	A01201	Cu-Meter	10	732.40	7,324
160	DRS/DCU/DRS cum DCU works	B00100				
161	Installation of DRS/DCU/DRS cum DCU	B00101				
162	Receiving and taking over, handling, loading, transportation and unloading of DRS/DCU/DRS cum DCU from Owner's designated stockyards to site, installation at foundation (including supply of all structural items) and hooking up with PE pipe including all works as required to complete the job as per the drawings and specification, scope of work mentioned in tender document. The scope includes supply of transition fittings and other PE and CS fittings as per requirements and various associated works (including steel welding) to commission DRS/DCU/DRS cum DCU.					
	Note: 1) Amount towards civil work shall be payable as per related SOR items. 2) Rate to include cost of all labour, tools, tackles, equipment, hire charges. 3) Bolts, nuts, washer, U-clamps, gaskets etc. if required during installation shall be procured and supplied by the Contractor within the rate quoted. These items shall not be separately measured and paid.					
163	DCU/DRS cum DCU. (Maximum weight of single DCU/DRS cum DCU shall be about 6.0 T)	B00102	Nos.	0	-	-

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164	Note: i) The quantities mentioned are indicative only. ii) For all the supply items mentioned above, procurement shall be made as per specification after due approval of engineer-in-charge.					
165	CIVIL WORKS	C00100				
166	Earth Work Earth in excavation and filling to the grades and levels shown in the approved drawings in all kinds of conditions including for Road embankments, using approved quality good earth from designated borrow area, for all heights and depths including clearing and stripping (min. 150 mm) of the area marked for filling, taking spot levels, consolidating the exposed natural soil surface, excavating the earth from borrow area loading, transporting & unloading, spreading in layers not exceeding 150 mm thickness, breaking clods, watering (if reqd.), ramming and compacting by manual/mechanical means to give minimum 92% of modified Proctor's density of earth, testing & dressing including disposal of all unserviceable material all complete as per specifications and directions of Engineer-in-charge. (Rate to include cost of all labour, tools, tackles, equipment, hire charges, cost of borrow earth by way of royalties, right of way, cess etc., as applicable with all bye works and sundry works).	C00101	Cubic Meter	8	287.91	2,303
167	PCC 1:2:4 1 Cement : 2 Coarse sand : 4 stone aggregate 20mm nominal size.	C00200	Cubic Meter	4	3,823.61	15,294
168	PCC 1:4:8 1 Cement : 4 Coarse sand : 8 stone aggregate 40mm nominal size.	C00300	Cubic Meter	2	3,081.11	6,162
169	(Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials, shuttering, earthwork in excavation and backfilling using approved earth in all conditions etc. with all bye works and sundry works.)					
170	Reinforced Cement Concrete	C00400				
171	Providing and laying reinforced cement of grade M-25 with 20mm and down grade crushed stone aggregate in all types of structures like foundations, pedestals, pipe supports, sleepers, column, equipment foundation, cable trench including construction joints, bitumen painting on surface in contact with soil, supplying and fixing reinforcing steel, shuttering, inserts, finishes etc. at all depths and heights complete as per drawings, specifications and direction of the Engineer-in-charge.	C00401	Cubic Meter	4	10,379.81	41,519
172	Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 43 grade cement including sulphate resistant cement for sub-structures, R/F steel, Inserts, bolts, conduits, bitumen, other minor construction materials, shuttering, staging, earthwork in excavation and backfilling using serviceable earth in all conditions, shorting bailing and pumping out water, testing of concrete, curing etc. with all bye works and sundry works.					
173	Brick Work	C00500				
174	Providing brick work with brick class designation M-7.5 of IS:1077 in cm:1:4 (1 cement : 4 sand) in steps, walls, retaining walls and load bearing structures drains, or any shape with all lead, depths & height including curring, scaffolding, etc., as per specifications and drawings with all bye-works and direction of the Engineer-in-charge.	C00501	Cubic Meter	8	3,939.78	31,518
175	(Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 43 grade cement, bricks, finishes, bitumen, other minor construction materials, shuttering, staging, masonry work, plastering, painting etc. with all bye-works and sundry works).					
176	Note: The quantities of individual item can varied as per site requirement. The payment will be made as per actual certified measurement at site.					

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177	Laying of Brick layer/ Concrete	C00600				
178	Providing single layer of Brick / Concrete / or Impact resistant tape to entire width of trench above Warning Mat placed in trench over the laid pipeline as per OISD 226, standard drawing, specification and instruction of Owner. (Rate to include cost of all labour, tools, tackles, equipment, hire charges & supply of all materials, etc)					
179	Brick Layer for width of PE pipeline trench as per drawing (75 mm thk.)	C00601	Square Meter	8	176.79	1,414
180	Concrete for width of PE pipeline trench as per drawing (80 mm thk.)	C00602	Square Meter	8	267.70	2,142
181	Demolition of PCC work below plinth level	C00700				
182	Demolishing plain cement concrete (PCC) work (taking all necessary safety precautions) for all depths below plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning, etc. , disposal of unserviceable material outside the boundary limits keeping the owner indemnified of any liabilities from statutory/ local bodies, all complete work as specified and directed	C00701	Cubic Meter	4	1,515.30	6,061
183	Excavation for foundation works	C00800				
184	Excavation as per plan, upto 3 meters and upto any lead in all conditions, backfilling using serviceable earth and disposal of surplus and unserviceable earth. Soil to be levelled and neatly dressed complete in all respect as per scope of work, technical specification and directions of EIC.					
185	Upto 3.0 Mtrs	C00801	Cubic Meter	4	1,060.71	4,243
186	Dismantling of RCC & cutting of reinforcement (Thickness above 3")	C00802	Cubic Meter	4	1,843.62	7,374
187	Structural Works	D00100				
188	Providing and fixing Fencing Structure	D00101				
189	Supplying, fabricating & fixing GI wire fencing fabricated from GI wire conforming to IS: and 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 pockets & pouring with PCC (1:2:4) in of block for fixing of posts etc including Y type angle and barbed wire (900 mm) complete as per enclosed drawing, technical specifications, scope of works and directions of the Engineer-In-Charge.					
190	Fencing height 2.1m alongwith barbed wire of height atleast 900 mm on Y type angle.	D00102	RM	16	2,227.49	35,640
191	Providing and fixing Fencing Gates	C00201				
192	Supplying, fabricating & fixing fencing gates 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, painting with enamel paint in approved shade including supply of all raw materials, bolts, electrodes, transportation etc complete as per enclosed sketch, technical specifications and directions of the Engineer-In-Charge.					
193	4m Wide x 2.1m High	D00202	Nos.	0	-	-
194	3m Wide x 2.1m High	D00203	Nos.	0	-	-
195	1m Wide x 2.1m High	D00204	Nos.	0	-	-

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				Quantity	Unit Rate (Inclusive of all applicable taxes & duties & other levies (if any) payable by the Contractor under the Contract, or for any other cause except final GST) in Rupees	TOTAL AMOUNT (Inclusive of all applicable taxes & duties & other levies (if any) payable by the Contractor under the Contract, or for any other cause except final GST) in Rupees
196	Preservation of Pipeline	E00100				
197	Preservation of pipeline sections and associated facilities (in event of delay in 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.					
198	By filling and pressurizing with nitrogen to a pressure of 2 bar(g) for a period of one month or part thereof.	E00101				
199	For 125 mm Pipeline	E00102	Meter	200	3.60	1,919
200	For 90 mm Pipeline	E00103	Meter	200	8.59	1,717
201	For 63 mm Pipeline	E00104	Meter	200	7.07	1,414
202	For 32 mm Pipeline	E00105	Meter	400	6.06	2,424
203	For 20 mm Pipeline	E00106	Meter	400	5.56	2,222
204	For every additional period of one month or part thereof limited to 6 month	E00201				
205	For 125 mm Pipeline	E00202	Meter	200	5.05	1,010
206	For 90 mm Pipeline	E00203	Meter	200	4.55	909
207	For 63 mm Pipeline	E00204	Meter	200	4.04	808
208	For 32 mm Pipeline	E00205	Meter	400	3.54	1,414
209	For 20 mm Pipeline	E00206	Meter	400	3.03	1,212
210	Notes: i) The above length is not for a single section but for no. of sections. ii) All accessories ie; End caps and two nos tapings of 3/4 inches, PG to be considered per section and rate for the same shall be quoted by bidder under this item. iii) If month is partially complete, payment shall be made on prorata basis. iv) Scope includes pressure holding for a period of 6 months or as per EIC and jointing of PE pipe (if required) due to damage by any means and further filling of nitrogen for pressure holding.					
211	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. (ii) The bidder must indicate currency(ies) against each quoted item of the SOR. (iii) The total amount shall also be given by the bidder in the quoted currency(ies). (iv) Some of the may / may not be execute as per site requirements.					
212	Liaisoning with Land Owning Agencies for Permission Submission of applications as per approved drawing provided by owner / owner's representative (Initial Route survey, preparation of drawing, measuring and providing details of surface type shall be in scope of contractor), obtaining and submission of demand note, coordination, Liaisoning, obtaining written permission from land owing agencies like NHAI, AAI, Indian Railways and any other government agencies who maintains the public lands and agencies owing Private lands etc. (all fee paid to authorities excluding demand charges or Bank Guarantees shall be reimbursed against documentary evidence). This rates are not applicable for Private lands i.e. Apartments etc. Permissions required from various authorities like NHAI / Railways / Irrigation (Canal) etc. falling enroute shall be inclusive in the item rate.	F00100	KM	4	13,506.37	54,025
	Total Excluding GST					15,971,297
	Total Including 18% GST					18,846,131