



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)

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GSTIN : 07AACCM2118P174 वेबसाइट / Website : <http://meconlimited.co.in>

स्वीकृति का फॉर्म / FAX OF ACCEPTANCE (FOA)

FOA NO. 05/51/Q7NT/GAIL/001-ii-17/FOA-987

DATE: 09.10.2023

TO : M/s Mukand Poly Products, Guwahati
PHONE : 9859920647 / 9859920443
EMAIL : info.mukand@mukandgroup.in
ATTN : MR. MUKUND GUPTA, PARTNER
FROM : SR. GM (CONTRACTS), MECON LIMITED, DELHI

PLEASE REFER TO YOUR OFFER NO. MPP/2023-24/GAIL/006 DTD.19.06.23 (NIC BID ID: 566618) AND ALL OTHER SUBSEQUENT CORRESPONDENCE AGAINST BIDDING DOCUMENT NO. 05/51/Q7NT/GAIL/001-II-17 DATED 31.05.2023 (TENDER ID: 2023_GAIL_155615) & COMM. CORR.#1 DATED 08.06.23 FOR LAYING OF PE PIPELINE NETWORK INCLUDING ASSOCIATED WORKS FOR CUTTACK GA FOR CGD PROJECT AT SIX GEOGRAPHICAL AREAS (GAS) OF GAIL (INDIA) LIMITED (.)

WE HEREBY PLEASED TO ISSUE THIS FAX OF ACCEPTANCE (FOA) / NOTIFICATION OF AWARD FOR APPROX. 40% OF SCOPE OF WORK OF TENDER AT AN ESTIMATED CONTRACT VALUE OF RS. 1,70,43,218/- (INDIAN RUPEES ONE CRORE SEVENTY LAKH FORTY-THREE THOUSAND TWO HUNDRED EIGHTEEN 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 CONTRACT/ORDER VALUE [EXCLUDING GST] AS PER CL. NO.38 OF ITB OR AS PER BDS (ANNEX-IV TO SECTION-III OF VOLI OF TENDER) AND CONTRACT AGREEMENT AS PER CL. NO. 37 OF ITB OF TENDER DOCUMENT (.)

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

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

A DETAILED ORDER SHALL FOLLOW (.)

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

राकेश शर्मा / RAKESH SHARMA

वरि, महाप्रबंधक (अनुबंध) / SR. GM (CONTRACTS)
मेकॉन लिमिटेड, दिल्ली / MECON LIMITED, DELHI

CC: BY COURIER TO:
M/s Mukand Poly Products
Royal Arcade Part II, 3rd Floor,
B.Baruah Road, Ulubari, Guwahati-781007

प्रधान कार्यालय / Head Office :

कार्यालय / Office :

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	bangalore@meconlimited.co.in			

Annex-I to BA No. 05/Sl. 07NT/4AIL/001-II-17 / FOA-987
 dt. 09/10/2023

SCHEDULE OF RATES : LAYING OF PE PIPELINE NETWORK INCLUDING ASSOCIATED WORKS FOR CUTTACK GA
 Tender No.: 05/51/Q7NT/GAIL/001-II-17 (Tender ID: 2023_GAIL_155615)

Sl. No.	Item Description	Item Code / Make	Units	M/s Mukand Poly Products, Guwahati		
				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					
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.	A00100				
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 / uncoiling, aligning of the PE line pipe on the pipeline Right-of-Use / route, laying / installation of PE line pipe along with 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 mulling 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, PE 63/80 PN 6.0).	A00101				
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.					

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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/000/710 enclosed with tender document and to the entire satisfaction of owner / engineer- in -charge.					
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/ QISD- 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 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 ladders, 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).					

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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 dally 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.					
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	258.72	51,744
28	32 mm PE 100 pipe	A00104	Meter	400	258.72	1,03,488
29	63 mm PE 100 pipe	A00105	Meter	100	301.84	30,184
30	90 mm PE 100 pipe	A00106	Meter	100	377.30	37,730
31	125 mm PE 100 pipe	A00107	Meter	100	458.15	45,815
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	328.79	2,63,032
34	32 mm PE 100 pipe	A00110	Meter	800	328.79	2,63,032
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	555.17	35,53,088
37	63 mm PE 100 pipe	A00113	Meter	3,200	592.90	18,97,280
38	90 mm PE 100 pipe	A00114	Meter	400	883.96	3,53,584
39	125 mm PE 100 pipe	A00115	Meter	600	1,191.19	7,14,714
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				

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41	20 mm PE 100 pipe	A00117	Meter	200	377.30	75,460
42	32 mm PE 100 pipe	A00118	Meter	200	377.30	75,460
43	63 mm PE 100 pipe	A00119	Meter	40	614.46	24,578
44	90 mm PE 100 pipe	A00120	Meter	40	1,024.10	40,964
45	125 mm PE 100 pipe	A00121	Meter	40	1,708.63	68,345
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	458.15	54,978
48	32 mm PE 100 pipe	A00124	Meter	120	458.15	54,978
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	120	759.99	91,199
51	63 mm PE 100 pipe	A00127	Meter	40	1,654.73	66,189
52	90 mm PE 100 pipe	A00128	Meter	20	2,495.57	49,911
53	125 mm PE 100 pipe	A00129	Meter	20	3,428.04	68,561
54	Pipeline Laying through Open Cut (Without casing) for all type of Rocky strata	A00130				
55	20 mm PE 100 pipe	A00131	Meter	120	307.23	36,868
56	32 mm PE 100 pipe	A00132	Meter	120	307.23	36,868
57	63 mm PE 100 pipe	A00133	Meter	100	355.74	35,574
58	90 mm PE 100 pipe	A00134	Meter	100	447.37	44,737
59	125 mm PE 100 pipe	A00135	Meter	100	539.00	53,900
60	Pipeline Laying Through Moling (without casing) for all type of Rocky strata	A00136				
61	20 mm PE 100 pipe	A00137	Meter	480	368.08	1,86,278
62	32 mm PE 100 pipe	A00138	Meter	960	368.08	3,72,557
63	Pipeline Laying Through HDD (without casing) for all type of Rocky strata	A00139				
64	32 mm PE 100 pipe	A00140	Meter	1,200	711.48	8,53,776
65	63 mm PE 100 pipe	A00141	Meter	800	754.60	6,03,680
66	90 mm PE 100 pipe	A00142	Meter	200	1,126.51	2,25,302
67	125 mm PE 100 pipe	A00143	Meter	200	1,514.59	3,02,918
68	Pipeline Laying through Open Cut (With casing) for all type of Rocky strata	A00144				
69	20 mm PE 100 pipe	A00145	Meter	200	425.81	85,162
70	32 mm PE 100 pipe	A00146	Meter	200	425.81	85,162
71	63 mm PE 100 pipe	A00147	Meter	40	679.14	27,166

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72	90 mm PE 100 pipe	A00148	Meter	40	1,115.73	44,629
73	125 mm PE 100 pipe	A00149	Meter	40	1,832.60	73,304
74	Pipeline Laying Through Molding (with casing) for all type of Rocky strata	A00150				
75	20 mm PE 100 pipe	A00151	Meter	200	522.83	1,04,566
76	32 mm PE 100 pipe	A00152	Meter	200	522.83	1,04,566
77	Pipeline Laying Through HDD (with casing) for all type of Rocky strata	A00153				
78	32 mm PE 100 pipe	A00154	Meter	200	943.25	1,88,650
79	63 mm PE 100 pipe	A00155	Meter	40	2,032.03	81,281
80	90 mm PE 100 pipe	A00156	Meter	20	3,034.57	60,691
81	125 mm PE 100 pipe	A00157	Meter	20	4,085.62	81,712
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	Asphalling	A00201	Meter	100	237.16	23,716
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	94.33	1,13,190
87	Cement Concrete restoration as per scope of work. (Excluding Breaking/Cutting)	A00203	Meter	1,200	662.97	7,95,564
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	148.23	1,77,870
89	RCC restoration as per scope of work. (Excluding Breaking/Cutting)	A00205	Meter	1,200	808.50	9,70,200
90	Tiles/ Paver/ Blocks/ Curb Stones, Red sand stone	A00206	Meter	4,800	242.55	11,64,240
91	Brick Soling/ Stone Soling, etc	A00207	Meter	1,200	172.48	2,06,976
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	7,546.00	90,552

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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	21,560.00	43,120
95	Type II : Inside size 1500 mm x 1000 mm and greater than 1500 mm deep	A00211	Each	2	26,950.00	53,900
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	40,425.00	80,850
98	Type II : Inside size 1500 mm x 1000 mm and greater than 1500 mm deep	A00214	Each	1	51,205.00	51,205
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. Multistorey 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.					

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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.					
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, chiseling 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- 228 & 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 PJS item - 4.2) over the pipeline along the complete route as per drawing no. MEC/J999/05/11/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.					

Sl. No.	Item Description	Item Code / Make	Units	M/s Mukand Poly Products, Guwahati		
				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
111	The scope of work against laying of 2032 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	385.39	1,54,154
119	32 mm PE 100 pipe	A00302	Meter	960	401.56	3,85,493
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.	100	156.31	15,631
124	4" NB, 1' Length	A00402	Nos.	4	274.89	1,100
125	MS Enamel Coated					
126	4" NB, 3' Length	A00403	Sq. Metre	4	630.63	2,523
127	Concrete Sleeve (NP-2 Class)					
128	4" NB, 3' Length	A00404	Sq. Metre	4	156.31	625
129	6" NB, 3' Length	A00405	Sq. Metre	4	253.33	1,013

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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.	8	3,719.10	29,753
134	PE Valve 63 mm dia	A00502	Nos.	2	8,214.36	16,429
135	PE Valve 90 mm dia	A00503	Nos.	1	12,774.30	12,774
136	PE Valve 125mm dia	A00504	Nos.	1	17,641.47	17,641
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	4,096.40	16,386
140	PE Valve(Long stem) 63 mm dia	A00602	Nos.	2	9,055.20	18,110
141	PE Valve(Long Stem) 90 mm dia	A00603	Nos.	1	14,067.90	14,068
142	PE Valve(Long stem) 125mm dia	A00604	Nos.	1	19,404.00	19,404
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	323.40	1,61,700
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	1,800.26	1,80,026
148	Warning Plate Markers					
149	Supply, fabrication and installation of plate markers, including application of approved color and quality of primer and paint, stencil lettering, numbers, direction, etc. as per the attached drawing in technical volume to be installed near regulator.	A00803	Nos	200	334.18	66,836
150	Paver Block Tiles Markers					
151	Supply, fabrication and installation of Pvaer 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	40	312.62	12,505

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152	Construction of RCC structure for protection of service line for drain/mallah 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	4	11,076.45	44,306
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.	16	7,007.00	1,12,112
156	GPR Survey - Length more than 100 meter	A01002	RM	1,000	70.07	70,070
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	781.55	7,816
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	-	-
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				

Sl. No.	Item Description	Item Code / Make	Units	M/s Mukand Poly Products, Guwahati		
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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	307.23	2,458
167	POC 1:2:4 1 Cement : 2 Coarse sand : 4 stone aggregate 20mm nominal size.	C00200	Cubic Meter	4	4,080.23	16,321
168	POC 1:4:8 1 Cement : 4 Coarse sand : 8 stone aggregate 40mm nominal size.	C00300	Cubic Meter	2	3,287.90	6,576
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	11,076.45	44,306
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, stanching, 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 curbing, scaffolding, etc., as per specifications and drawings with all bye-works and direction of the Engineer-in-charge.	C00501	Cubic Meter	8	4,204.20	33,634
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)					

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179	Brick Layer for width of PE pipeline trench as per drawing (75 mm thk.)	C00601	Square Meter	8	188.65	1,509
180	Concrete for width of PE pipeline trench as per drawing (80 mm thk.)	C00602	Square Meter	8	285.67	2,285
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	1,617.00	6,468
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	1,131.90	4,528
186	Dismantling of RCC & cutting of reinforcement (Thickness above 3")	C00802	Cubic Meter	4	1,967.35	7,869
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	2,376.99	38,032
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	-	-
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.					

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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	10.24	2,048
200	For 90 mm Pipeline	E00103	Meter	200	9.16	1,833
201	For 63 mm Pipeline	E00104	Meter	200	7.55	1,509
202	For 32 mm Pipeline	E00105	Meter	400	6.47	2,587
203	For 20 mm Pipeline	E00106	Meter	400	5.93	2,372
204	For every additional period of one month or part thereof Limited to 6 month	E00201				
205	For 125 mm Pipeline	E00202	Meter	200	5.39	1,078
206	For 90 mm Pipeline	E00203	Meter	200	4.85	970
207	For 63 mm Pipeline	E00204	Meter	200	4.31	862
208	For 32 mm Pipeline	E00205	Meter	400	3.77	1,509
209	For 20 mm Pipeline	E00206	Meter	400	3.23	1,294
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 lappings 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 owning agencies like NHAI, AA, 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	14,412.86	57,651
	Total Excluding GST					1,70,43,218
	Total Including 18% GST					2,01,10,997



मेकॉन लिमिटेड (भारत सरकार का संस्थान) MECON LIMITED (A GOVT. OF INDIA ENTERPRISES)



13वां एवं 15वां तल, नार्थ टॉवर, स्कोप मीनार, लक्ष्मी नगर व्यवसायिक केन्द्र, दिल्ली-110092, (भारत)
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GSTIN : 07AASCMT219B1Z4 वेबसाइट / Website : <http://meconlimited.co.in>

स्वीकृति का फैक्स / FAX OF ACCEPTANCE (FOA)

FOA NO. 05/51/Q7NT/GAIL/001-ii-17/FOA-986

DATE: 09.10.2023

TO : M/S SHIV SHAKTI CONSTRUCTION, DELHI
PHONE : 011-42508200, 9810835939
EMAIL : shivshaktirohini85@gmail.com
ATTN : MS. PRABHA SHARMA, PROPRIETOR
FROM : SR. GM (CONTRACTS), MECON LIMITED, DELHI

PLEASE REFER TO YOUR OFFER NIL DATED 08.06.2023 (NIC BID ID: 566706) AND ALL OTHER SUBSEQUENT CORRESPONDENCE AGAINST BIDDING DOCUMENT NO. 05/51/Q7NT/GAIL/001-II-17 DATED 31.05.2023 (TENDER ID: 2023_GAIL_155615) & COMM. CORR.#1 DATED 08.06.23 FOR LAYING OF PE PIPELINE NETWORK INCLUDING ASSOCIATED WORKS FOR CUTTACK GA FOR CGD PROJECT AT SIX GEOGRAPHICAL AREAS (GAS) OF GAIL (INDIA) LIMITED (.)

WE HEREBY PLEASED TO ISSUE THIS FAX OF ACCEPTANCE (FOA) FOR AWARD OF APPROX. 60% OF SCOPE OF WORK OF TENDER AT AN ESTIMATED CONTRACT VALUE OF RS. 2,55,67,034/- (INDIAN RUPEES TWO CRORE FIFTY FIVE LAKH SIXTY SEVEN THOUSAND THIRTY-FOUR 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 CONTRACT/ORDER VALUE [EXCLUDING GST] AS PER CL. NO.38 OF ITB OR AS PER BDS (ANNEX-IV TO SECTION-III OF VOLI OF TENDER) AND CONTRACT AGREEMENT AS PER CL. NO. 37 OF ITB OF TENDER DOCUMENT (.)

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

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

A DETAILED ORDER SHALL FOLLOW (.)

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


राकेश शर्मा / RAKESH SHARMA

वरि. महाप्रबंधक (अनुबंध) / SR. GM (CONTRACTS)
मेकॉन लिमिटेड, दिल्ली / MECON LIMITED, DELHI

CC: BY COURIER TO:
M/s Shiv Shakti Construction
F-1/22, 1st Floor, Sector-11,
Rohini, New Delhi-11008



प्रधान कार्यालय / Head Office :

कार्यालय / Office :

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SCHEDULE OF RATES : LAYING OF PE PIPELINE NETWORK INCLUDING ASSOCIATED WORKS FOR CUTTACK GA
Tender No.: 05/51/07NT/GAIL/001-II-17 (Tender ID: 2023_GAIL_155615)

Sl. No.	Item Description	Item Code / Make	Units	M/s Shiv Shakti Construction, 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
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 / uncoiling, aligning of the PE line pipe on the pipeline Right-of-Use / route, laying / installation of PE line pipe along with 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 underground 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 PE pipe (in 180 mm dia. HDPE Casing Pipe, PE 63/80 PN6.0). 4. For 125 mm PE pipe (in 250 mm dia. HDPE Casing Pipe, PE 63/80 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 delours 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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						M/s Shiv Shakti Construction, Delhi
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 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 areas 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 G-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, crosshings 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.					

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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	300	256.72	77,616
28	32 mm PE 100 pipe	A00104	Meter	600	256.72	1,55,232
29	63 mm PE 100 pipe	A00105	Meter	180	301.84	45,276
30	90 mm PE 100 pipe	A00106	Meter	150	377.30	56,595
31	125 mm PE 100 pipe	A00107	Meter	150	458.15	68,723
32	Pipeline Laying Through Molding (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	328.79	3,94,548
34	32 mm PE 100 pipe	A00110	Meter	1,200	328.79	3,94,548
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	555.17	5,32,932
37	63 mm PE 100 pipe	A00113	Meter	4,800	592.90	2,84,920
38	90 mm PE 100 pipe	A00114	Meter	600	883.96	5,30,376
39	125 mm PE 100 pipe	A00115	Meter	900	1,191.19	10,72,071
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	377.30	1,13,190
42	32 mm PE 100 pipe	A00118	Meter	300	377.30	1,13,190
43	63 mm PE 100 pipe	A00119	Meter	60	614.46	36,868
44	90 mm PE 100 pipe	A00120	Meter	60	1,024.10	61,446
45	125 mm PE 100 pipe	A00121	Meter	60	1,708.63	1,02,518
46	Pipeline Laying Through Molding (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	458.15	82,467
48	32 mm PE 100 pipe	A00124	Meter	180	458.15	82,467
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	759.99	1,36,798

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51	63 mm PE 100 pipe	A00127	Meter	60	1,654.73	99,284
52	90 mm PE 100 pipe	A00128	Meter	30	2,495.57	74,867
53	125 mm PE 100 pipe	A00129	Meter	30	3,423.04	1,02,841
54	Pipeline Laying through Open Cut (Without casing) for all type of Rocky strata	A00130				
55	20 mm PE 100 pipe	A00131	Meter	180	307.23	55,301
56	32 mm PE 100 pipe	A00132	Meter	180	307.23	55,301
57	63 mm PE 100 pipe	A00133	Meter	150	355.74	53,361
58	90 mm PE 100 pipe	A00134	Meter	150	447.37	67,106
59	125 mm PE 100 pipe	A00135	Meter	150	539.00	80,850
60	Pipeline Laying Through Molding (without casing) for all type of Rocky strata	A00136				
61	20 mm PE 100 pipe	A00137	Meter	720	388.08	2,79,418
62	32 mm PE 100 pipe	A00138	Meter	1,440	388.08	5,58,835
63	Pipeline Laying Through HDD (without casing) for all type of Rocky strata	A00139				
64	32 mm PE 100 pipe	A00140	Meter	1,800	711.48	12,80,664
65	63 mm PE 100 pipe	A00141	Meter	1,200	754.60	9,05,920
66	90 mm PE 100 pipe	A00142	Meter	300	1,126.51	3,37,953
67	125 mm PE 100 pipe	A00143	Meter	300	1,514.59	4,54,377
68	Pipeline Laying Through Open Cut (With casing) for all type of Rocky strata	A00144				
69	20 mm PE 100 pipe	A00145	Meter	300	425.81	1,27,743
70	32 mm PE 100 pipe	A00146	Meter	300	425.81	1,27,743
71	63 mm PE 100 pipe	A00147	Meter	60	679.14	40,748
72	90 mm PE 100 pipe	A00148	Meter	60	1,115.73	66,944
73	125 mm PE 100 pipe	A00149	Meter	60	1,832.80	1,09,956
74	Pipeline Laying Through Molding (with casing) for all type of Rocky strata	A00150				
75	20 mm PE 100 pipe	A00151	Meter	300	522.83	1,56,849
76	32 mm PE 100 pipe	A00152	Meter	300	522.83	1,56,849
77	Pipeline Laying Through HDD (with casing) for all type of Rocky strata	A00153				
78	32 mm PE 100 pipe	A00154	Meter	300	943.25	2,82,975
79	63 mm PE 100 pipe	A00155	Meter	60	2,032.03	1,21,922
80	90 mm PE 100 pipe	A00156	Meter	30	3,034.57	91,037
81	125 mm PE 100 pipe	A00157	Meter	30	4,085.62	1,22,569

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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 / 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, lllas, 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	237.16	35,574
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	94.33	1,69,785
87	Cement Concrete restoration as per scope of work (Excluding Breaking/Cutting)	A00203	Meter		1,800	662.97	11,93,346
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	148.23	2,66,805
89	RCC restoration as per scope of work (Excluding Breaking/Cutting)	A00205	Meter		1,800	808.50	14,55,300
90	Tiles/Paver/ Blocks/ Curb Stones, Red sand stone	A00206	Meter		7,200	242.55	17,46,350
91	Brick Soling/ Stone Soling, etc	A00207	Meter		1,800	172.48	3,10,464
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 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	7,546.00	1,35,828
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 RCC 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	21,560.00	86,240
95	Type II : Inside size 1500 mm x 1000 mm and greater than 1500 mm deep	A00211	Each		2	26,950.00	53,900

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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 fungs, 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	40,425.00	80,850
98	Type II : Inside size 1500 mm x 1000 mm and greater than 1500 mm deep	A00214	Each	1	51,205.00	51,205
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. Multistorey 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/000011 & MEC/23QH/05/25/M/00070 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	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 PJS Item - 4.2) over the pipeline along the complete route as per drawing no. MECU999/GS/H1/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) X Height (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	385.39	2,31,231
119	32 mm PE 100 pipe	A00302	Meter	1,440	401.56	5,78,239
120	Supply of GI/ MS/ Concrete Sleeves (wherever required as a Special Case as per instructions of the Engineer-in-charge)	A00400				

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						M/s Shiv Shakti Construction, Delhi
121	Supply, installation of sleeve, insertion of pipe, sealing the annulus, 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	156.31	23,447
124	4" NB, 1' Length	A00402	Nos.	6	274.89	1,649
125	MS Enamel Coated					
126	4" NB, 3' Length	A00403	Sq. Metre	6	630.63	3,784
127	Concrete Sleeve (NP-2 Class)					
128	4" NB, 3' Length	A00404	Sq. Metre	6	156.31	938
129	6" NB, 3' Length	A00405	Sq. Metre	6	253.33	1,520
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	3,719.10	44,629
134	PE Valve 63 mm dia	A00502	Nos.	4	8,214.36	32,857
135	PE Valve 90 mm dia	A00503	Nos.	1	12,774.30	12,774
136	PE Valve 125mm dia	A00504	Nos.	1	17,641.47	17,641
137	Installation of valve(Long stem) in pit including supply of valves	A00500				
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	4,096.40	24,578
140	PE Valve(Long stem) 63 mm dia	A00602	Nos.	2	9,055.20	18,110
141	PE Valve(Long stem) 90 mm dia	A00603	Nos.	1	14,067.90	14,068
142	PE Valve(Long stem) 125mm dia	A00604	Nos.	1	19,404.00	19,404
143	Fabrication & installation of Markers	A00800				
144	ROC Route Markers					
145	Supply, fabrication and installation of ROC 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	323.40	2,42,550
146	Pole Markers with Foundation					

Sl. No.	Item Description	Item Code / Make	Units	M/s Shiv Shakti Construction, Delhi		
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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	1,800.26	2,70,039
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	334.18	1,00,254
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	312.52	18,757
152	Construction of RCC structure for protection of service line for drain/hallah 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	11,076.45	66,459
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	7,007.00	1,68,168
156	GPR Survey - Length more than 100 meter	A01002	RM	1,500	70.07	1,05,105
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	15	781.55	11,723
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.	1	30,340.31	30,340

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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		12	307.23	3,687
167	POC 1:2:4 1 Cement : 2 Coarse sand : 4 stone aggregate 20mm nominal size.	C00200	Cubic Meter		6	4,080.23	24,481
168	POC 1:4:8 1 Cement : 4 Coarse sand : 8 stone aggregate 40mm nominal size.	C00300	Cubic Meter		3	3,287.90	9,864
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	11,076.45	66,459
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, slenging, 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 curing, scaffolding, etc., as per specifications and drawings with all bye-works and direction of the Engineer-in-charge.	C00501	Cubic Meter		12	4,204.20	50,450
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					

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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	12	189.55	2,264
180	Concrete for width of PE pipeline trench as per drawing (80 mm thk.)	C00602	Square Meter	12	285.57	3,428
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	1,517.00	9,702
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	6	1,131.90	6,791
186	Dismantling of RCC & cutting of reinforcement (Thickness above 3")	C00802	Cubic Meter	6	1,967.35	11,804
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 pokets & pouring with PCC (1:2:4) in of block for fixing of posts etc including Y type angle and barbed wire (800 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	2,376.99	57,048
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	41,600.02	41,600
194	3m Wide x 2.1m High	D00203	Nos.	1	23,766.90	23,770
195	1m Wide x 2.1m High	D00204	Nos.	1	10,699.15	10,699
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.					

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						M/s Shiv Shakti Construction, Delhi
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	10.24	3,072
200	For 90 mm Pipeline	E00103	Meter	300	9.16	2,749
201	For 63 mm Pipeline	E00104	Meter	300	7.55	2,264
202	For 32 mm Pipeline	E00105	Meter	600	6.47	3,881
203	For 20 mm Pipeline	E00106	Meter	600	5.93	3,557
204	For every additional period of one month or part thereof Limited to 6 month	E00201				
205	For 125 mm Pipeline	E00202	Meter	300	5.39	1,617
206	For 90 mm Pipeline	E00203	Meter	300	4.85	1,455
207	For 63 mm Pipeline	E00204	Meter	300	4.31	1,294
208	For 32 mm Pipeline	E00205	Meter	600	3.77	2,264
209	For 20 mm Pipeline	E00206	Meter	600	3.23	1,940
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. tapplings 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, AAJ, 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	14,412.86	86,477
	Total Excluding GST					2,55,67,034
	Total Including 18% GST					3,01,69,100