



मेकॉन लिमिटेड (भारत सरकार का संस्थान)

MECON LIMITED (A GOVT. OF INDIA ENTERPRISES)



13वां एवं 15वां तल, नार्थ टॉवर, स्कोप मीनार, लक्ष्मी नगर व्यावसायिक केन्द्र, दिल्ली-110092 (भारत)
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स्वीकृति का फैक्स / FAX OF ACCEPTANCE (FOA)

FOA NO. 05/51/Q7NT/GAIL/001-ii-14/FOA-967

DATE: 31.07.2023

TO : M/S DECCAN ENERGY
PHONE : +91- 8328194970, 8179327750
EMAIL : deccanenergy05@gmail.com
ATTN : MR. Y RAVI SANKAR, PROPRIETOR
FROM : SR. GM (CONTRACTS), MECON LIMITED, DELHI

PLEASE REFER TO YOUR OFFER (NIC BID ID: 554234) AND ALL OTHER SUBSEQUENT CORRESPONDENCE AGAINST BIDDING DOCUMENT NO. 05/51/Q7NT/GAIL/001-II-14 DATED 25.04.2023 (TENDER ID: 2023 GAIL 152471) & COMM. CORR.#1 DATED 10.05.23 FOR ABOVEGROUND GI INSTALLATIONS INCLUDING LAST MILE CONNECTIVITY AT CONSUMER END AT JAMSHEDPUR GA (1 YEAR ARC) FOR CGD PROJECT AT SIX GA FOR GAIL (INDIA) LIMITED (.)

WE HEREBY PLEASED TO ISSUE THIS FAX OF ACCEPTANCE (FOA) FOR AWARD FOR APPROX. 30% OF SCOPE OF WORK OF TENDER AT AN ESTIMATED CONTRACT VALUE OF RS.2,15,12,174/- (INDIAN RUPEES TWO CRORE FIFTEEN LAKH TWELVE THOUSAND ONE HUNDRED SEVENTY 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-I(.)

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

PLEASE SUBMIT CONTRACT PERFORMANCE BANK GUARANTEE @ 10% OF ANNUALISED CONTRACT/ORDER VALUE [EXCLUDING GST] AS PER CL. NO.38 OF ITB OR AS PER BDS(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)

रकेश शर्मा / RAKESH SHARMA

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

CC: BY COURIER TO:

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70-7-16/5, TSR Nagar , Road No.02,
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SCHEDULE OF RATES : ABOVEGROUND GI INSTALLATIONS INCLUDING LAST MILE CONNECTIVITY AT CONSUMER END AT JAMSHEDPUR GA (1 YEAR ARC)

Tender No.: 05/51/Q7NT/GAIL/001-ii-14, Tender ID: 2023_GAIL_152471

Sl. No.	Item Description	Item Code	Units	M/s Deccan Energy, Kakinada		
				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 Rs.)	TOTAL AMOUNT Without Taxes (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 Rs.
1	PE PIPELINE	A00100				
2	Pipe Laying in any unprepared surface (Katcha surface) / Normal Surface / Hard surface (all type of hard Rock) using Open cut / Molding (without Casing) methodology.	A00101				
3	Receipt, Loading, unloading, storing, reloading, transportation, unloading, uncoiling, stringing and laying of PE100, SDR11/17.6 line pipes of all sizes including, proper stacking, identification, and supply of accessories of all sizes & thickness like PE Bends, Saddle, Couplers, Endcaps, Tee (Equal/ Reducing), Reducer, CS / GI to PE Fittings (i.e. Transition Fittings of sizes 20 mm to 32 mm), Warning Mat (300 mm width as per attached Technical specification and QAP), 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 associated works; Storage of material in contractor's store in safe manner, pre fabrication / fabrication, access for pre fabrication / fabrication area, all procured / supplied materials for construction, 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 within GA, transportation, unloading and stacking of free issue items at Contractor's store					
4	Carrying out all temporary, ancillary, auxiliary works required to make the laid PE pipeline system complete and ready for commissioning as per drawings, specifications and /or as per direction of Engineer-in-charge (EIC).					
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 including marking the same in topographical sheet, preparation of construction drawings showing survey details, and submit same to Owner for review / approval.					
7	Carrying out preliminary & final survey activities for crossings encountered in pipeline route and preparation of drawings with crossing methodology etc. wherever required and submission to Owner/Engineer-in-charge for review / approval.					
8	Preparation and getting approval of execution schedules, execution procedures, drawings/ sketches/ wherever required from Owner/Engineer-in-charge and/or from concerned authority, making trial pits to determine the underground utilities/ services etc., restoration of the abandoned trial pits to original condition to entire satisfaction of Owner/Engineer-in-charge and/or concerned authority.					
9	Stacking and installation of construction markers, clearing/grading of work area, fencing, grubbing, cutting of trees, etc within work area and full filling all the requirements of various statutory/ environment authorities to their entire satisfaction.					
10	Barricading the work area as per local authorities guidelines/norms and to the entire satisfaction of Owner/ Engineer -in- charge, installation of safety signs to the satisfaction of Owner/ Engineer -in-charge and / or as per local authorities guidelines/norms.					
11	Barricading the pipeline construction area prior to execution of the works as per drawing no. MEC/23QH/05/25/M/001/011 & MEC/23QH/05/25/M/001/10 enclosed with tender document and to the entire satisfaction of owner / engineer-in-charge.					
12	Laying using open trench without casing/Molding 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 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 (300 mm width as per attached Technical specification and QAP) 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, saddle etc 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 (8" depth X6" length X4" width) which may slightly vary in dimension and volumetric quantities of PCC and may increase up to 25% more as per site requirement, supply and installation of GI Sleeve (Heavy (C-Class) as per IS-1239), supply & filling of sand and installation of TF (along with supply).					
17	Flushing, 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.					

Sl. No.	Item Description	Item Code	Units	M/s Deccan Energy, Kakinada		
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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 within GA 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 worthiness of the complete pipelines system along with associated facilities till hand over to the OWNER/ EIC and to carry out rectification/ replacement works for any defect or failures reported by OWNER during defect liability period.					
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 and get it reviewed/ inspected by Owner/ Owner representative/ PMC.					
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 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.					
24	Submission of all documents required for contract closure as mentioned in the contract document as per guidelines of the Owner/PMC.					
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 time schedule at no extra cost to Owner. All the work shall be executed in accordance with the provision of contract and/or latest guidelines of the statutory authority, whichever is stringent.					
26	20 mm PE 100 pipe by Open Cut Method (Laying of 20mm includes ground connectivity (GC)/Service Line to all the customers enroute). Note: Flushing Testing, commissioning of 20mm and 32mm shall be done together.	A00102	Meter	405	320.77	1,29,911
27	20 mm PE 100 pipe by Moiling without casing Method (Laying of 20mm includes ground connectivity/Service Line to all the customers enroute). Note: Flushing Testing, commissioning of 20mm and 32mm shall be done together.	A00103	Meter	3,517	405.57	14,26,390
28	32 mm PE 100 pipe by Open Cut Method (Laying of 32mm shall accompany service line/GC with 20mm to the customers enroute). Note: Flushing Testing, commissioning of 32mm and 20mm shall be done together.	A00104	Meter	405	331.83	1,34,391
29	32 mm PE 100 pipe by Moiling without casing Method (Laying of 32mm shall accompany service line/GC with 20mm to the customers enroute). Note: Flushing Testing, commissioning of 32mm and 20mm shall be done together.	A00105	Meter	7,200	420.32	30,26,290
30	For laying of 20 mm/32 mm branch PE pipe after taking either online tapping from Gas charged run/ service pipeline of size up to 63 mm or online tapping from positive pressurised (up to 2 bar(g)) condition run/ service pipeline of size up to 63 mm using required size of Saddle: Excavation of all size & depth in all type of under ground soil strata including pebbles, cobbles, gravels, boulders, soft & hard rock etc. to make the pit for installation of Saddle, carrying out installation & fixing of required size of Saddle, Reducer/ Expander, etc., where run/ service PE pipeline is in charged/Pressurised condition. Installation/ Laying of 20 mm/32 mm PE pipe from Saddle to Transition fittings (CS / GI Pipe to PE Pipe) including supply and installation of GI Sleeve of required sizes (Heavy (C-Class) as per IS-1239), supply & filling of sand, supply & installation of Transition fittings of required sizes (CS / GI Pipe to PE Pipe) including blinding by end cap of pipe near TF shall be carried out as per activity description mentioned above for SOR Item No. A00102, A00103, A00104 & A00105 as applicable and payment shall be made accordingly for these activities. The scope of work against installation/ laying of 20 mm/ 32 mm pipe also includes works like making of PCC pedestal of grade (1:2:4) and size 300mm(Length)X 200mm(Width) X Height (H)), where H>=300mm & will be as per site condition. Note:- 1) The above Item rate is valid for online Tapping including hookup with run/ service/ branch PE Pipeline along with supply of Saddle, Reducer/ Expander, other PE fittings required specifically at tapping point only, when the existing network is already charged/Pressurised condition. Online tapping for Branch/ Service Line/Ground Connectivity to be given to customers shall be paid during connection of Houses (Individual) or Apartment/Society. 2) Flushing Testing, commissioning of 32mm and 20mm shall be done together or as per instruction of EIC and the payment shall be made as per SOR item rate A00102, A00103, A00104 & A00105 as applicable mentioned elsewhere in the SOR.	A00106	Nos	300	2,027.85	6,08,355

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31	For laying of 20 mm/32 mm branch PE pipe after taking either online tapping from Gas charged run/ service pipeline of size up to 63 mm or online tapping from positive pressurised [up to 2 bar(g)] condition run/ service pipeline of size up to 63 mm using required size of Equal/ Unequal Tee. Excavation of all size & depth in all type of under ground soil strata including pebbles, cobbles, gravels, boulders, soft & hard rock etc. to make the pit for installation of Equal/ Unequal Tee, carrying out installation & fitting of required size of Equal/ Unequal Tee, Reducer/ Expander, etc., where run/ service PE pipeline is in charged/Pressurised condition. <u>Installation/ Laying of 20 mm/32 mm PE pipe from Saddle to Transition fittings (CS / GI Pipe to PE Pipe) including supply and installation of GI Sleeve of required sizes (Heavy (C-Class) as per IS-1239), supply & filling of sand, supply & installation of Transition fittings of required sizes (CS / GI Pipe to PE Pipe) including blinding by end cap of pipe near TF shall be carried out as per activity description mentioned above for SOR Item No. A00102, A00103, A00104 & A00105 as applicable and payment shall be made accordingly for these activities. The scope of work against installation/ laying of 20 mm/ 32 mm pipe also includes works like making of PCC pedestal of grade (1:2:4) and size 300mm(Length)X 200mm(Width) X Height (H)), where H>=300mm & will be as per site condition.</u> Note:- 1) The above item rate is valid for online Tapping including hookup with run/ service/ branch PE Pipeline along with supply of Equal/ Unequal Tee, Reducer/ Expander, other PE fittings required specifically at tapping point only, when the existing network is already charged/Pressurised condition. Online tapping for Branch/ Service Line/Ground Connectivity to be given to customers shall be paid during connection of Houses (Individual) or Apartment/Society. 2) Flushing, Testing, commissioning of 32mm and 20mm shall be done together or as per instruction of EIC and the payment shall be made as per SOR item rate A00102, A00103, A00104 & A00105 as applicable mentioned elsewhere in the SOR	A00107	Nos	300	1,954.11	5,86,233
32	Note: i) The lengths of pipelines are tentative, it may increase or decrease as per site requirement or as per instruction of EIC. ii) For restoration of asphalt / concrete roads, the item for construction of asphalt top / concrete top / red stone / paver/RCC/CC shall be paid separately as per the rates quoted for the same elsewhere in the SOR. iii) The Scope of work will start from tapping saddle/Tee on existing/laid PE pipe of various sizes of existing network to Transition Fitting (PE to GI). The tapping saddle/Tee, Transition Fittings and other fittings shall be included in the measurement under relevant SOR. iv) Bidder has to familiarise himself the entire locations /region/ charge area within the GA and ascertain all type of eventuality/uncertainty before putting their bid					
33	PE pipe laying of sizes 20 mm/ 32 mm 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.	A00200				
34	Minimum pipe top cover of 375 mm is required and the line pressure shall not exceed 110mbar.					
35	Necessary mitigation measures such as RCC slab (150mm thick and 300mm width) at the top, of 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.					
36	Receipt, Loading, unloading, storing, reloading, transportation, unloading, Uncoiling, stringing and laying of PE100, SDR11/17.6 line pipes of all sizes including, proper stacking, identification, and supply of accessories of all sizes & thickness like PE Bends, Saddle, Couplers, Endcaps, Tee(Equal/ Reducing), Reducer, CS / GI to PE Fittings (i.e. Transition Fittings of sizes 20 mm to 32 mm), Warning Mat (300 mm width as per attached Technical specification and QAP) 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.					
37	Carrying out all temporary, ancillary, auxiliary works required to make the PE pipeline ready for commissioning as per drawing.					
38	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.					
39	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.					
40	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.					
41	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 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)					
42	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.					

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43	Installation / lowering the pipeline in trench to required depth, supply & placement of HDPE Yellow colour warning mat (300 mm width as per attached Technical specification and QAP) over the pipeline along the complete route as per standard drawing 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.					
44	The scope of work against laying of 20 mm /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).					
45	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.					
46	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.					
47	Maintaining the completed pipelines and installation for any defect or failures during defect liability period.					
48	Handing over the completed works to Owner for their operation/ use, reconciliation of material area wise and obtaining "no objection certificate" from Owner/ Consultant.					
49	On completion of gas charging of pipelines. Preparation and submission of As-built drawings, crossings details, termination, utility graphs and deviation statements.					
50	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.					
51	20 mm PE 100 pipe	A00201	Meter	450	538.30	2,42,236
52	32 mm PE 100 pipe	A00202	Meter	720	582.55	4,19,433
54	Civil Work/Cutting/ Breaking and Restoration	A00300				
55	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.					
56	Asphalting	A00301	Meter	18	324.46	5,840
57	Breaking/Cutting of Cement Concrete-Making provision for PE Pipe laying as per site requirement and as per instruction of EIC.	A00302	Meter	300	129.05	38,714
58	Cement Concrete restoration as per scope of work (Excluding Breaking/Cutting)	A00303	Meter	300	907.00	2,72,101
59	Breaking/Cutting of RCC Core- Making provision for PE Pipe laying as per site requirement and as per instruction of EIC.	A00304	Meter	225	202.79	45,627
60	RCC restoration as per scope of work (Excluding Breaking/Cutting)	A00305	Meter	450	1,106.10	4,97,745
61	Tiles/ Paver/ Blocks/ Curb Stones,Red sand stone	A00306	Meter	1,650	331.83	5,47,520
62	Brick Soling/ Stone Soling, etc	A00307	Meter	300	235.97	70,790
63	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.	A00308	Cubic Meter	3	10,323.60	30,971
64	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.					
65	Type I : Inside size 1500 mm x 1000 mm and upto 1500 mm deep	A00309	EACH	1	29,496.00	29,496
66	Type II : Inside size 1500 mm x 1000 mm and greater thano 1500 mm deep	A00310	EACH	1	36,870.00	36,870
67	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.					
68	Type I : Inside size 1500 mm x 1000 mm and upto 1500 mm deep	A00311	EACH	2	55,305.00	1,10,610
69	Type II : Inside size 1500 mm x 1000 mm and greater thano 1500 mm deep	A00312	EACH	1	70,053.00	70,053
70	Pipe Laying in any unprepared surface (Katcha surface) / Normal Surface / Hard surface(all type of hard Rock) using open cut with casing / Miling with Casing methodology.	A00400				
71	Laying of all PE pipe (PE 100 SDR11), Including supply of HDPE casing pipe, Saddle, Couplers, End caps etc. (As per Particular job specification.)					

Sl. No.	Item Description	Item Code	Units	M/s Deccan Energy, Kakinada		
				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 Rs.)	TOTAL AMOUNT Without Taxes (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 Rs.
72	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.					
73	20 mm PE 100 pipe (in 50 mm dia. HDPE Casing Pipe) by open cut Method with casing	A00401	Meter	45	497.75	22,399
74	20 mm PE 100 pipe (in 50 mm dia. HDPE Casing Pipe) by Molling Method with casing	A00402	Meter	45	582.55	26,215
75	32 mm PE 100 pipe (in 75 mm dia. HDPE Casing Pipe) by open cut Method with casing	A00403	Meter	22	545.68	12,005
76	32 mm PE 100 pipe (in 75 mm dia. HDPE Casing Pipe) by Molling Method with casing	A00404	Meter	22	641.54	14,114
77	Supply of GI/ Concrete Sleeves (wherever required as a Special Case as per instructions of the Engineer-in-charge)	A00500				
78	Supply, installation of sleeve, insertion of pipe, sealing the annular area, 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.					
79	GI Sleeves /Concrete Sleeves					
80	2 1/2" NB, 1' Length	A00501	Nos.	3	213.85	642
81	4" NB, 1' Length	A00502	Nos.	3	376.07	1,128
82	2 1/2" NB, 3' Length	A00503	Nos.	2	516.18	1,032
83	4" NB, 3' Length	A00504	Nos.	2	921.75	1,844
84	MS Enamel Coated					
85	4" NB, 3' Length	A00505	Nos.	1	862.76	863
86	Concrete Sleeve (NP-2 Class)					
87	4" NB, 3' Length	A00506	Nos.	1	213.85	214
88	6" NB, 3' Length	A00507	Nos.	1	346.58	347
89	Note:-The decision regarding use of type of sleeves to be used at various locations shall be made by Engineer- In-Charge (EIC) / Owner					
90	Supply of Copper Jumper wire(wherever required to maintain the continuity of Pipeline to be laid)	A00600				
91	Supply, Installation, Jointing using Soldering/Pin Brazing/other technique to connect and Integrate the PE pipeline laid for traceability purpose					
92	1.2 MM Copper Jumper insulated wire(as per TS wherever required)	A00601	Meter	150	117.98	17,698
93	Fabrication & Installation of Markers	A00700				
94	RCC Route Markers					
95	Supply, fabrication and installation of RCC route markers including application of approved color and quality of primer and paint as per the standard drawing, 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. These works shall be carried out as per installation methodology approved by EIC based on site requirement	A00701	Nos.	135	442.44	59,729
96	Steel Pole Markers with Foundation					
97	Supply, fabrication and installation of Steel Pole markers including application of approved color and quality of primer and paint as per the standard drawings including all associated civil works such as excavation and construction in all types of soils, construction and pedestals and grouting with concrete, cleaning, stencil letter cutting of lettering, numbers, direction, etc. These works shall be carried out as per installation methodology approved by EIC based on site requirement.	A00702	Nos.	30	2,462.92	73,887
98	Warning Plate Markers					
99	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 standard drawings to be installed near regulator. These works shall be carried out as per installation methodology approved by EIC based on site requirement.	A00703	Nos.	1,350	457.19	6,17,204
100	Paver Block-Tiles Markers					
101	Supply, fabrication and installation of Pvaer Block-Tiles markers of standard size as per industry practice along the route on Paver Block/Tiles on foot Path/As per the instruction of EIC including application of approved color and quality of primer and paint, stencil letter cutting of lettering, numbers, direction, etc. Carrying out all associated works for fixing / grouting / anchoring the marker with surface. These works shall be carried out as per installation methodology approved by EIC based on site requirement.	A00704	Nos.	30	427.69	12,831
102	Crossing of Sewage Drains/Nala alongside of Independent houses where drains/Nalas are being encountered adjacent to houses	A00800				
103	The scope of work include supply of Medium duty GI Casing pipes of 2.5 inches, alongwith padding with sand stone and civil works associated for construction of cover slab as per drawing No. MEC/23VV/05/25/M/Bharatpur/Typ/001.	A00801	Nos.	150	2,949.60	4,42,440
104	PNG Connection to Domestic/ Commercial/ Industrial Consumers	B00100				
105	Installation of Carbon Steel (CS)/ GI Service Pipe	B00101				
106	Supply/Receipt, Loading, unloading, storing, reloading, transportation, unloading at work site and laying of either Owner supplied Powder coated GI pipes or Contractor supplied Powder coated GI pipes & carbon steel pipes of all sizes & thickness including supply of all associated compatible accessories of all sizes & thickness like Elbows, Tees, unions, sockets, reducers, GI plugs,Sleeves etc., installation of GI line (alongwith installation of required accessories as mentioned above) of all sizes & thickness, including fabrication with supply of all materials, consumables, labour and other incidental works. The scope of work also includes installation of Regulators (4/6 bar to 100/21 mbar and/or 100 mbar to 21 mbar) which shall be provided as free issue item. Installation of all sizes of isolation Valves (which are to be procured & supplied by contractor mentioned elsewhere as separate items in the SOR). Carrying out all temporary, ancillary, auxiliary works required to make the GI line complete and ready for commissioning as per drawings specifications. Handling, aligning, fabrication & installation of the GI Pipes in the work area alongwith required associated compatible accessories as mentioned above as per site condition ad as per instruction of EIC. Execution of all associated works; Supply of all materials, consumables,equipments, labour and other inputs; Storage of material in contractor's store in safe manner, pre-fabrication, access for construction/ fabrication work area. In the case of free issue items, the scope also includes, receiving and loading from Owner's designated store within GA, transportation, unloading and stacking of free issue items at Contractor's store in safe condition.					

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107	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:					
108	Preparation and getting approval of execution schedules, execution procedures, drawings/ sketches from Owner/Engineer-in-charge and/or from concerned authority.					
109	Finalisation of optimum route with consent of customer, from transition fitting to cooking oven/ appliance.					
110	Making temporary but stable platforms/ scaffolding/ rope ladders and all other safety measures including safety belts wherever required.					
111	Installation of GI Pipes, Fittings, including NPT threading, painting as specified.					
112	Drillings of holes through walls (Brick, RCC), Granite, Marble, Glass Cutting with proper heavy duty hammer drill machine tools and tackles, using proper sealant /grout material of colors to match the original replacement of damages during drilling, restoring the area to original condition.					
113	In case of Multistorey building where RCC Slab/Visor/Sunshade/Chhajja restrict riser installation then separate payment for cement concrete/ RCC core-cutting with heavy duty drill machine and their restoration shall be paid under SOR items 2.2(a), 2.2(b), 2.2(c) & 2.2(d) and as per instruction and direction of EIC					
114	Supply & Fixing of approved clamps, Dowell Plugs with screws, grout material, suitable thread sealant i.e. Teflon Tape/ lock tight, drilling of holes through tiles/ wood/ marble/ Granite etc. jointing of PE to above Ground service GI pipes, flushing, pneumatic testing, purging with Nitrogen (including supply of Nitrogen as inert gas by contractor) and commissioning or make ready for commissioning of the complete system as per specification and as per instruction of EIC					
115	Touchup Painting/ Painting of outer surface of GI pipe of all sizes along with fittings after proper surface finish by one coat of approved primer paint and two coats of approved synthetic enamel paint complete as per specification & direction of EIC. Restoring the wall surface to original condition to the entire satisfaction of EIC and getting NOC from end user/Consumer/ concerned authorities/ Authorised competent person of the Society.					
116	All above activities to be carried out as per specification to the complete satisfaction of consumer & as desired by Engineer-in-charge.					
117	Handing over the completed works to GAIL for operation/ use, reconciliation of material area wise and obtaining "no objection certificate" from GAIL / GAIL Representative at Site/ CPMC.					
118	Any other activity not mentioned/ covered, explicitly above, but otherwise required for satisfactory completion/ safety/ statutory/ maintenance of works shall also be covered under scope of work and has to be completed by contractor within specified schedule time.					
119	½" All floors (Including connectivity from TF to regulator):- with supply of GI Pipes by Contractor	B00102	Meter	4,500	339.20	15,26,418
120	½" All floors (Including connectivity from TF to regulator):- with supply of GI Pipes by Owner on Free Issue Basis.	B00103	Meter	15,000	228.59	34,28,910
121	¾" All Floors (Including Installation of Risers)- with supply of GI Pipes by Contractor	B00104	Meter	3,000	365.01	10,95,039
122	¾" All Floors (Including Installation of Risers) with supply of GI Pipes by Owner on Free Issue Basis	B00105	Meter	9,600	228.59	21,94,502
123	1" Dia All Floors (For Riser Installations & For Commercial Connections)- with supply of GI Pipes by Contractor (Rates are inclusive of installation by threading, however incase of pipe joining by welding as per direction of EIC, payment for Welding, NDT will be made separately)	B00106	Meter	150	505.12	75,768
124	1" Dia All Floors (For Riser Installations & For Commercial Connections)- with supply of GI Pipes by Owner on Free Issue Basis (Rates are inclusive of installation by threading, however incase of pipe joining by welding as per direction of EIC, payment for Welding, NDT will be made separately)	B00107	Meter	90	272.84	24,555
125	Supply & laying/ installation including fabrication of Contractor supplied Carbon steel piping system of all sizes & thickness including fabrication & installation of required compatible isolation ball valves fittings, flanges, gaskets, valves, NRV, Strainer, couplings, etc of all sizes, thickness & ANSI pressure rating including Pressure Gauge (PG) etc. as per instruction of EIC. Supply of all type of manpower, machineries, materials, consumables, and other incidental works to carry out & complete the works at site as per instruction of EIC. Flushing, Pneumatic testing, purging with nitrogen (including supply of Nitrogen as inert gas by contractor) and commissioning or make ready for commissioning as per specification and as per instruction of EIC.	B00108	Meter	30	479.31	14,379
126	Supply, laying/ installation & visual testing including fabrication of Contractor supplied Carbon steel piping system of all sizes & thickness including fabrication, installation & visual testing of required compatible fittings, flanges, gaskets, valves, NRV, Strainer, couplings, etc of all sizes, thickness & ANSI pressure rating including Pressure Gauge (PG) etc. as per instruction of EIC. Supply of all type of manpower, machineries, materials, consumables, and other incidental works to carry out & complete the works at site as per instruction of EIC. Flushing, Pneumatic testing, purging with nitrogen (including supply of Nitrogen as inert gas by contractor) and commissioning or make ready for commissioning as per specification and as per instruction of EIC. Any other activity not mentioned/ covered, explicitly above, but otherwise required for satisfactory completion/ safety/ statutory/ maintenance of works shall also be covered under scope of work and has to be completed by contractor within specified schedule time. - 2" Dia All Floors (For Commercial & Industrial Connections)- (Payment for Welding, NDT- Radiography will be made separately mentioned elsewhere in the SOR)	B00109	Meter	30	626.79	18,804
127	Carrying out Welding of GI/CS Pipes as per latest applicable code & standard for above SOR items B00106, B00107, B00108 & B00109 as per site requirement and instruction of EIC	B00110	Inch-Dia	225	258.09	58,070
128	Carrying out NDT/Radiography of welded joints of CS/GI Pipes as per latest applicable code & standard for above SOR items B00106, B00107, B00108 & B00109 as per site requirement and instruction of EIC	B00111	Inch-Dia	225	22.12	4,977
129	Supply of Nitrogen as inert gas for preservation at positive pressure and/or other works as per site requirement and instruction of EIC (wherever supply of Nitrogen is not covered under the scope of Bidder mentioned elsewhere in the SOR).	B00112	Cubic Meter	75	110.61	8,296

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130	Note:- i) Refer Particular Job Specification for supply items. ii) The quantity measurement shall be from the outlet of the Transition Fitting (TF) upto the Meter. All intermediate CS fittings & valves, GI fittings & valves (excluding Flexible Hose / Anaconda, meter and regulator) shall be considered while measuring length of CS/GI Pipes. iii) Supply of isolation Ball Valves, shall be paid as a separate SOR item. iv) Supply of CS fittings & Valves for 1 1/2" & 2" CS piping [SOR ITEM B00108 & B00109] shall be paid as a separate SOR item. v) In case of SOR items B00103, B00105 & B00107 above (under SOR item No.- B00101), owner shall supply Plain or Powder Coated GI Pipes (as free issue) remaining scope of supplies of fittings etc. including all associated works shall be as per item nos.-a, c & e (under SOR item No.- B00101)					
131	Cutting/ Breaking and Restoration	B00200				
132	In case of Multistorey building where RCC Slab/Visor/Sunshade/Chhaja restrict riser installation then separate payment for core-cutting with heavy duty drill machine shall be paid under below SOR item and as per instruction and direction of EIC					
133	Breaking/Cutting of Cement Concrete-Making provision for GI Pipe laying	B00201	Inch	450	5.16	2,323
134	Cement Concrete restoration as per scope of work (Excluding Breaking/Cutting)	B00202	Inch	450	25.81	11,614
135	Breaking/Cutting of RCC Core- Making provision for GI Pipe laying	B00203	Inch	300	7.37	2,212
136	RCC restoration as per scope of work (Excluding Breaking/Cutting)	B00204	Inch	300	33.18	9,955
137	Supply of Valves and fittings for Carrying out connection((For Commercial & Industrial Connections)	B00300				
138	Supply of valves and fittings as per Technical Specification and as directed by EIC					
139	Isolation CS Ball Valve 1 1/2" (1.5") NB, SWE/FE, ANSI pressure class rating 150# / 800# [as per Piping Material Specification (PMS) & Datasheet]	B00301	Nos.	3	674.72	2,024
140	Isolation CS Ball Valve 2" NB, BWE/FE, ANSI pressure class rating 150# (as per PMS & Datasheet)	B00302	Nos.	3	899.63	2,699
141	WNRF Flange -1 1/2" (1.5") NB, (as per PMS)	B00303	Nos.	2	331.83	664
142	WNRF Flange -2" NB, ANSI pressure class rating 150# / 800# (as per PMS)	B00304	Nos.	9	567.80	5,110
143	Elbow -1 1/2" (1.5") NB, SWE (as per PMS)	B00305	Nos.	9	626.79	5,641
144	Elbow -2" NB, BWE, ANSI pressure class rating 150# (as per PMS)	B00306	Nos.	9	884.88	7,964
145	Tee -Equal -1.5"x1.5"x1.5" NB, SWE, (as per PMS)	B00307	Nos.	4	737.40	2,950
146	Tee -Equal -2"x2"x2" NB, BWE, ANSI pressure class rating 150# (as per PMS)	B00308	Nos.	4	1,106.10	4,424
147	NRV 1.5" NB, SWE/FE, ANSI pressure class rating 150# / 800# (as per PMS & Datasheet)	B00309	Nos.	4	958.62	3,834
148	NRV 2" NB, BWE/FE, ANSI pressure class rating 150# (as per PMS & Datasheet)	B00310	Nos.	4	1,474.80	5,899
149	Strainer 1.5" NB, SWE/FE, (as per PMS & Datasheet)	B00311	Nos.	4	737.40	2,950
150	Strainer 2" NB, BWE/FE, ANSI pressure class rating 150# (as per PMS & Datasheet)	B00312	Nos.	4	1,032.36	4,129
151	SS 304 Spiral wound Gasket 1" NB as per specification/ relevant ASME code.	B00313	Nos.	9	36.87	332
152	SS 304 Spiral wound Gasket 1.5" NB as per specification/ relevant ASME code.	B00314	Nos.	9	47.93	431
153	SS 304 Spiral wound Gasket 2" NB as per specification/ relevant ASME code.	B00315	Nos.	15	66.37	995
154	Reducer 2" X1.5" NB, BWE x SWE, as per PMS	B00316	Nos.	4	103.24	413
155	Reducer 1.5" X1" NB, SWE, as per PMS	B00317	Nos.	4	70.05	280
156	Reducer 2" X1" NB, BWE x SWE, as per PMS	B00318	Nos.	4	92.18	369
157	Full coupling of 1.5" NB as per PMS	B00319	Nos.	4	184.35	737
158	Half coupling of 1.5" NB as per PMS	B00320	Nos.	4	110.61	442
159	Full coupling of 1" NB as per PMS	B00321	Nos.	4	132.73	531
160	Half coupling of 1" NB as per PMS	B00322	Nos.	4	66.37	265
161	Stud & Nut for connection of 1.5" NB SWRF Flanges of ANSI pressure class rating 150# / 800# (as per PMS & relevant code)	B00323	Nos.	25	73.74	1,844
162	Stud & Nut for connection of 2" NB WNRF Flanges of ANSI pressure class rating 150# (as per PMS & relevant code)	B00324	Nos.	52	110.61	5,752
163	Supply of Pressure Gauge for maximum operating pressure 6 bar(g) as per specification of approved make	B00325	Nos.	2	3,687.00	7,374
164	Note:- Before procurement of all above supply items by contractor, quantities to be finalised by contractor and approved by the GAIL/PMC.					
165	Supply, Installation, Testing & Commissioning of Copper Service Pipes	B00400				
166	Supply and installation of copper tubing and installation of Appliance Ball valves as per Technical specification and alongwith associated accessories/fittings including brass fittings at the outlet of the meter and at the entry of appliance valve as per satisfaction and instruction of EIC. The copper tube and fittings shall be procured from approved vendors who have supplied these items for similar application earlier and with prior approved of Owner / PMC.					
167	Copper tube shall be installed from the downstream of meter upto the isolation/ appliance valve before the customers' appliance as per requirement and to the satisfaction of EIC. The Contractor to provide all equipment, tools & tackles and associated material required necessary to execute the work in an efficient manner by cutting, cleaning, flux application, soldering and lacquering. The work includes supply of all tools, tackles and consumables including clamps for fixing the tubes and restoration of the work area to the satisfaction of the customer.					
168	12.0 mm OD x 0.6 mm wall thickness	B00401	Meter	375	390.82	1,46,558
169	Supply, Installation, Testing & Commissioning of Multi Layer Composite (MLC) Pipes	B00500				
170	Supply and installation of MLC Pipe as per ISO17484-1 latest standard and installation of Appliance Ball valves as per technical specification alongwith associated accessories/fittings including brass fittings at the outlet of the meter and at the entry of appliance valve as per satisfaction and instruction of EIC. The MLC Pipe and fittings shall be procured from approved vendors or from those vendors, who have supplied these items for similar application earlier and with prior approved of Owner / PMC.					
171	MLC Pipe shall be installed from the downstream of meter upto the isolation/ appliance valve before the customer's appliance as per requirement and to the satisfaction of EIC. The Contractor to provide all equipment, tools & tackles and associated material required necessary to execute the work in an efficient manner by cutting, cleaning, Bending, Fixing with clamp etc. The work includes supply of all tools, tackles and consumables including clamps for fixing the MLC pipe and restoration of the work area to the satisfaction of the customer.					
172	16.0 mm OD	B00501	Meter	195	221.22	43,138

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173	Note: i) Supply of Appliance Ball Valves shall be paid as a separate SOR Item. ii) SOR item No. B00400 & B00500 shall be carried out including supply of materials, only after getting instruction / approval from EIC.					
174	Installation of Regulator, Meter, Flexible Hose & Conversion of Domestic Appliance:	B00600				
175	Installation & fixing of meters & regulators (100 m bar to 21 m bar, wherever required) with associated inlet connections/ fittings, valves, approved meter brackets and other supports by proper scaffolding/ grouting, Restoration of the work area to its original condition to the entire satisfaction of EIC. (Meter and Regulator will be provided as as free issue items)	B00601	Nos.	3,000	184.35	5,53,050
176	Conversion of Domestic Appliances Carrying out the complete works starts from outlet of meters which includes installation of GI pipe, Appliance valve etc & other supports by proper grouting, Restoring the area to original complete as per specification. The work also includes installation and supply of Steel reinforced Flexible Hose as per IS 9573 (with Type as per latest PNGRB guidelines) (Gas tube from end of Isolation Valve upto burner/stove) and conversion of all the burners of the LPG stove (one stove per household) including supply of all types of burner nozzles/jets and associated controls etc.	B00602	Nos.	3,000	221.22	6,63,660
177	Complete works as per specification for carrying out cleaning and performing minor maintenance, greasing etc. of appliance, testing/ showing performance to the customer, signing of Joint Meter Records (JMR) and issue of guideline / instructing to customer regarding operation & safety norms during use as per specifications. The issued instruction & guideline should be the entire satisfaction of customer.					
178	Supply of Valves for Carrying out connection (For Domestic Connections)	B00700				
179	Supply of Isolation & Appliance Ball Valves as per Technical Specification and as directed by EIC					
180	Isolation Ball Valve 1/2 " max. 6 bar (g)	B00701	Nos.	3,000	228.59	6,85,782
181	Isolation Ball Valve 3/4 " max. 6 bar (g)	B00702	Nos.	1,500	361.33	5,41,989
182	Isolation Ball Valve 1 " max. 6 bar (g)	B00703	Nos.	30	449.61	13,494
183	Appliance Ball Valve 1/2 " max. 35 mili Bar (g)	B00704	Nos.	3,000	191.72	5,75,172
184	Regulator Boxes: Supply & Installation including painting of approved make regulator boxes and installing them firmly by grouting using approved bracket /clamps as per standard drawing & as per specifications and cleaning the area complete to the satisfaction of EIC.	B00800	Nos	3	862.76	2,588
185	Note:- Services of Safety Officer must be provided by the contractor during execution of Works as mentioned in various sub SOR items under SOR items A00100 & B00100. Safety Officer will report to EIC and liable to follow his instruction time to time during their deputation at work site. The cost of deputation of Safety Officer at works site is included in above sub SOR items rate under SOR items A00100 & B00100. In case of non deployment of Safety Officer during execution of works at site and/or as per instruction of EIC, penalty will be levied to contractor as per rate/ amount mentioned in Annexure-10 to SCC enclosed with the tender document and the same will be deducted from their RA Bill.					
186	Registration of Domestic PNG Connections	C00100				
187	Assistance in carrying out the work of Domestic PNG registration as per directions/instructions of the Marketing In charge of GAIL (I) Limited / Authorized representative including but not limited to following: 1) Enrolment & Registration of Domestic PNG Customers as per the given target. 2) Collection of filled up form along with Cheque/Demand Draft of Security Deposit amount and documents All other activities as may be required to complete the work in all respect is defined in the Scope of work to be read along with the Special Conditions of Contract and as per instructions of MIC. Carrying out the marketing activities for Domestic PNG connection as detailed in Scope of work, complete in all respects, as per directions/instructions of the Marketing In Charge including but not limited to the following: Distribution of leaflets & FAQ, Installation of banners, to be provided by client, at prime location, Awareness cum Registration Camp, Audio / Visual Presentations, Organizing Road Shows, etc.	C00101	Nos.	900	110.61	99,549
188	Providing the Services of Resources as per site requirement	D00100				
189	Providing the services of Plumber(Manday= 8 Working Hours)	D00101	Manday	2	589.92	1,180
190	Providing the services of Helper(Manday= 8 Working Hours)	D00102	Manday	2	479.31	959
191	Providing the Services of Welder(Manday= 8 Working Hours)	D00103	Manday	2	1,290.45	2,591
192	Providing the Services of Electrician(Manday= 8 Working Hours)	D00104	Manday	2	737.40	1,475
193	Providing the Services of Conversion Technician(Manday= 8 Working Hours)	D00105	Manday	2	626.79	1,254
194	Providing the Services of Grinder(Manday= 8 Working Hours)	D00106	Manday	2	851.70	1,703
195	Note for all above SOR Items Nos. A00100 to D00106 :- i) Quantities mentioned against all above SOR items are estimated & tentative and may vary up to any extent as per site condition and/or as per instruction of EIC. ii) If certain documents, drawings, datasheets, specifications etc. are not included in the bid, the same will be made available to the successful bidder. While formulating the bid, bidders are requested to quote such items based on practices followed by the similar nature of industries. However procurement & installation of such items will be done as per site requirement after due approval of EIC. iii) Quantities mentioned against all above SOR items are estimated & tentative and may required to be executed either in Ranchi GA or in Jamshedpur GA or in both the GAs, in any ratio, as per site requirement and/or as per instruction of EIC. In this regard, decision of EIC shall be final and binding to the contractor. Hence, bidder is requested to familiarize themselves with both the GAs mentioned above while formulating their bid.					
	Total Excluding GST					2,15,12,174
	Total Including 18% GST					2,53,84,365



मेकॉन लिमिटेड (भारत सरकार का संस्थान)

MECON LIMITED (A GOVT. OF INDIA ENTERPRISES)



13वां एवं 15वां तल, नार्थ टॉवर, स्कोप मीनार, लक्ष्मी नगर व्यावसायिक केन्द्र, दिल्ली-110092 (भारत)
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स्वीकृति का फैक्स / FAX OF ACCEPTANCE (FOA)

FOA NO. 05/51/Q7NT/GAIL/001-ii-14/FOA-966

DATE: 31.07.2023

TO : M/S DEV AND COMPANY
PHONE : +91- 011-41504119, 9810397698
EMAIL : devandcompany.delhi@gmail.com
ATTN : MR. NEERAJ AGGARWAL, PROPRIETOR
FROM : SR. GM (CONTRACTS), MECON LIMITED, DELHI

PLEASE REFER TO YOUR OFFER (NIC BID ID: 554167) AND ALL OTHER SUBSEQUENT CORRESPONDENCE AGAINST BIDDING DOCUMENT NO. 05/51/Q7NT/GAIL/001-II-14 DATED 25.04.2023 (TENDER ID: 2023 GAIL 152471) & COMM. CORR.#1 DATED 10.05.23 FOR ABOVEGROUND GI INSTALLATIONS INCLUDING LAST MILE CONNECTIVITY AT CONSUMER END AT JAMSHEDPUR GA (1 YEAR ARC) FOR CGD PROJECT AT SIX GA FOR GAIL (INDIA) LIMITED (.)

WE HEREBY PLEASED TO ISSUE THIS FAX OF ACCEPTANCE (FOA) FOR AWARD FOR APPROX. 30% OF SCOPE OF WORK OF TENDER AT AN ESTIMATED CONTRACT VALUE OF RS.2,15,28,360/- (INDIAN RUPEES TWO CRORE FIFTEEN LAKH TWENTY EIGHT THOUSAND THREE HUNDRED SIXTY ONLY) EXCL. GST. GST SHALL BE PAYABLE EXTRA AS PER TENDER PROVISIONS. (PRESENT RATE OF GST@18%).

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

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

PLEASE SUBMIT CONTRACT PERFORMANCE BANK GUARANTEE @ 10% OF ANNUALISED CONTRACT/ORDER VALUE [EXCLUDING GST] AS PER CL. NO.38 OF ITB OR AS PER BDS (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 Dev and Company

B-48 Ground Floor, Devli Road, Khanpur, New Delhi- 110062

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SCHEDULE OF RATES : ABOVEGROUND GI INSTALLATIONS INCLUDING LAST MILE CONNECTIVITY AT CONSUMER END AT JAMSHEDPUR GA (1 YEAR

Tender No.: 05/51/Q7NT/GAIL/001-II-14, Tender ID: 2023_GAIL_152471

Sl. No.	Item Description	Item Code	Units	M/s Dev and Company, 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 Rs.)	TOTAL AMOUNT Without Taxes (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 Rs.
1	PE PIPELINE	A00100				
2	Pipe Laying in any unprepared surface (Katcha surface) / Normal Surface / Hard surface(all type of hard Rock) using Open cut / Molding -(without Casing) methodology.	A00101				
3	Receipt, Loading, unloading, storing, reloading, transportation, unloading, Uncoiling, stringing and laying of PE100, SDR11/17.6 line pipes of all sizes including, proper stacking, identification, and supply of accessories of all sizes & thickness like PE Bends, Saddle, Couplers, Endcaps, Tee(Equal/ Reducing), Reducer, CS / GI to PE Fittings (i.e. Transition Fittings of sizes 20 mm to 32 mm), Warning Mat (300 mm width as per attached Technical specification and QAP), 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 associated works; Storage of material in contractor's store in safe manner, pre fabrication / fabrication, access for pre fabrication / fabrication area, all procured / supplied materials for construction, 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 within GA, transportation, unloading and stacking of free issue items at Contractor's store					
4	Carrying out all temporary, ancillary, auxiliary works required to make the laid PE pipeline system complete and ready for commissioning as per drawings, specifications and /or as per direction of Engineer-in-charge (EIC).					
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 including marking the same in topographical sheet, preparation of construction drawings showing survey details, and submit same to Owner for review / approval.					
7	Carrying out preliminary & final survey activities for crossings encountered in pipeline route and preparation of drawings with crossing methodology etc. wherever required and submission to Owner/Engineer-in-charge for review / approval.					
8	Preparation and getting approval of execution schedules, execution procedures, drawings/ sketches/ wherever required from Owner/Engineer-in-charge and/or from concerned authority, making trial pits to determine the underground utilities/ services etc., restoration of the abandoned trial pits to original condition to entire satisfaction of Owner/Engineer-in-charge and/or concerned authority.					
9	Stacking and installation of construction markers, clearing/grading of work area, fencing, grubbing, cutting of trees, etc within work area and full filling all the requirements of various statutory/ environment authorities to their entire satisfaction.					
10	Barricading the work area as per local authorities guidelines/norms and to the entire satisfaction of Owner/ Engineer -in- charge, installation of safety signs to the satisfaction of Owner/ Engineer -in- charge and / or as per local authorities guidelines/norms.					
11	Barricading the pipeline construction area prior to execution of the works as per drawing no. MEC/23QH/05/25/M/001/011 & MEC/23QH/05/25/M/001/10 enclosed with tender document and to the entire satisfaction of owner / engineer- in -charge.					
12	Laying using open trench without casing/Molding 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 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.					

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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 Rs.)	TOTAL AMOUNT Without Taxes (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 Rs.
14	Installation / lowering the pipeline in trench to required depth as per PJS, Technical Specification & drawings, supply & placement of HDPE Yellow colour warning mat (300 mm width as per attached Technical specification and QAP) 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, saddle etc 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 (8" depth X6" length X4" width) which may slightly vary in dimension and volumetric quantities of PCC and may increase up to 25% more as per site requirement., supply and installation of GI Sleeve (Heavy (C-Class) as per IS-1239), supply & filling of sand and installation of TF (along with supply)					
17	Flushing, 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 within GA 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 worthiness of the complete pipelines system along with associated facilities till hand over to the OWNER/ EIC and to carry out rectification/ replacement works for any defect or failures reported by OWNER during defect liability period.					
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 and get it reviewed/ inspected by Owner/ Owner representative/ PMC.					
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 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.					
24	Submission of all documents required for contract closure as mentioned in the contract document as per guidelines of the Owner/PMC.					
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 time schedule at no extra cost to Owner. All the work shall be executed in accordance with the provision of contract and/or latest guidelines of the statutory authority, whichever is stringent.					
26	20 mm PE 100 pipe by Open Cut Method (Laying of 20mm includes ground connectivity (GC)/Service Line to all the customers enroute). Note: Flushing, Testing, commissioning of 20mm and 32mm shall be done together.	A00102	Meter	405	320.77	1,29,911
27	20 mm PE 100 pipe by Moiling without casing Method (Laying of 20mm includes ground connectivity/Service Line to all the customers enroute). Note: Flushing, Testing, commissioning of 20mm and 32mm shall be done together.	A00103	Meter	3,518	405.57	14,26,795
28	32 mm PE 100 pipe by Open Cut Method (Laying of 32mm shall accompany service line/GC with 20mm to the customers enroute). Note: Flushing, Testing, commissioning of 32mm and 20mm shall be done together.	A00104	Meter	405	331.83	1,34,391
29	32 mm PE 100 pipe by Moiling without casing Method (Laying of 32mm shall accompany service line/GC with 20mm to the customers enroute). Note: Flushing, Testing, commissioning of 32mm and 20mm shall be done together.	A00105	Meter	7,200	420.32	30,26,290

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30	For laying of 20 mm/32 mm branch PE pipe after taking either online tapping from Gas charged run/ service pipeline of size up to 63 mm or online tapping from positive pressurised [up to 2 bar(g)] condition run/ service pipeline of size up to 63 mm using required size of Saddle: Excavation of all size & depth in all type of under ground soil strata including pebbles, cobbles, gravels, boulders, soft & hard rock etc. to make the pit for installation of Saddle, carrying out installation & fixting of required size of Saddle, Reducer/ Expander, etc., where run/ service PE pipeline is in charged/Pressurised condition. <i>Installation/ Laying of 20 mm/32 mm PE pipe from Saddle to Transition fittings (CS / GI Pipe to PE Pipe) including supply and installation of GI Sleeve of required sizes (Heavy (C-Class) as per IS-1239), supply & filling of sand, supply & installation of Transition fittings of required sizes (CS / GI Pipe to PE Pipe) including blinding by end cap of pipe near TF shall be carried out as per activity description mentioned above for SOR Item No. A00102, A00103, A00104 & A00105 as applicable and payment shall be made accordingly for these activities. The scope of work against installation/ laying of 20 mm/ 32 mm pipe also includes works like making of PCC pedestal of grade (1:2:4) and size 300mm(Length)X 200mm(Width) X Height (H), where H>=300mm & will be as per site condition.</i> Note:- 1) The above Item rate is valid for online Tapping including hookup with run/ service/ branch PE Pipeline along with supply of Saddle, Reducer/ Expander, other PE fittings required specifically at tapping point only, when the existing network is already charged/Pressurised condition. Online tapping for Branch/ Service Line/Ground Connectivity to be given to customers shall be paid during connection of Houses (Individual) or Apartment/Society. 2) Flushing, Testing, commissioning of 32mm and 20mm shall be done together or as per instruction of EIC and the payment shall be made as per SOR item rate A00102, A00103, A00104 & A00105 as applicable, mentioned elsewhere in the SOR.	A00106	Nos	300	2,027.85	6,08,355
31	For laying of 20 mm/32 mm branch PE pipe after taking either online tapping from Gas charged run/ service pipeline of size up to 63 mm or online tapping from positive pressurised [up to 2 bar(g)] condition run/ service pipeline of size up to 63 mm using required size of Equal/ Unequal Tee: Excavation of all size & depth in all type of under ground soil strata including pebbles, cobbles, gravels, boulders, soft & hard rock etc. to make the pit for installation of Equal/ Unequal Tee, carrying out installation & fixting of required size of Equal/ Unequal Tee, Reducer/ Expander, etc., where run/ service PE pipeline is in charged/Pressurised condition. <i>Installation/ Laying of 20 mm/32 mm PE pipe from Saddle to Transition fittings (CS / GI Pipe to PE Pipe) including supply and installation of GI Sleeve of required sizes (Heavy (C-Class) as per IS-1239), supply & filling of sand, supply & installation of Transition fittings of required sizes (CS / GI Pipe to PE Pipe) including blinding by end cap of pipe near TF shall be carried out as per activity description mentioned above for SOR Item No. A00102, A00103, A00104 & A00105 as applicable and payment shall be made accordingly for these activities. The scope of work against installation/ laying of 20 mm/ 32 mm pipe also includes works like making of PCC pedestal of grade (1:2:4) and size 300mm(Length)X 200mm(Width) X Height (H), where H>=300mm & will be as per site condition.</i> Note:- 1) The above Item rate is valid for online Tapping including hookup with run/ service/ branch PE Pipeline along with supply of Equal/ Unequal Tee, Reducer/ Expander, other PE fittings required specifically at tapping point only, when the existing network is already charged/Pressurised condition. Online tapping for Branch/ Service Line/Ground Connectivity to be given to customers shall be paid during connection of Houses (Individual) or Apartment/Society. 2) Flushing, Testing, commissioning of 32mm and 20mm shall be done together or as per instruction of EIC and the payment shall be made as per SOR item rate A00102, A00103, A00104 & A00105 as applicable, mentioned elsewhere in the SOR.	A00107	Nos	300	1,954.11	5,86,233
32	Note: i) The lengths of pipelines are tentative, it may increase or decrease as per site requirement or as per instruction of EIC. ii) For restoration of asphalt / concrete roads, the item for construction of asphalt top / concrete top / red stone / paver/RCC/CC shall be paid separately as per the rates quoted for the same elsewhere in the SOR. iii) The Scope of work will start from tapping saddle/Tee on existing/laid PE pipe of various sizes of existing network to Transition Fitting (PE to GI). The tapping saddle/Tee, Transition Fittings and other fittings shall be included in the measurement under relevant SOR. iv) Bidder has to familiarise themselves the entire locations /region/ charge area within the GA and ascertain all type of eventuality/uncertainty before quoting their bid.					
33	PE pipe laying of sizes 20 mm/ 32 mm 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.	A00200				
34	Minimum pipe top cover of 375 mm is required and the line pressure shall not exceed 110mbar.					

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35	Necessary mitigation measures such as RCC slab (150mm thick and 300mm width) at the top, of 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.					
36	Receipt, Loading, unloading, storing, reloading, transportation, unloading, Uncoiling, stringing and laying of PE100, SDR11/17.6 line pipes of all sizes including, proper stacking, identification, and supply of accessories of all sizes & thickness like PE Bends, Saddle, Couplers, Endcaps, Tee(Equal/ Reducing), Reducer, CS / GI to PE Fittings (i.e. Transition Fittings of sizes 20 mm to 32 mm), Warning Mat (300 mm width as per attached Technical specification and QAP) 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					
37	Carrying out all temporary, ancillary, auxiliary works required to make the PE pipeline ready for commissioning as per drawing.					
38	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.					
39	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.					
40	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.					
41	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 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)					
42	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.					
43	Installation / lowering the pipeline in trench to required depth, supply & placement of HDPE Yellow colour warning mat (300 mm width as per attached Technical specification and QAP) over the pipeline along the complete route as per standard drawing 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.					
44	The scope of work against laying of 20 mm /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).					
45	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.					
46	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.					
47	Maintaining the completed pipelines and installation for any defect or failures during defect liability period.					
48	Handing over the completed works to Owner for their operation/ use, reconciliation of material area wise and obtaining "no objection certificate" from Owner/ Consultant.					
49	On completion of gas charging of pipelines. Preparation and submission of As-built drawings, crossings details, termination, utility graphs and deviation statements.					

Sl. No.	Item Description	Item Code	Units	M/s Dev and Company, Delhi		
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50	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.					
51	20 mm PE 100 pipe	A00201	Meter	450	538.30	2,42,236
52	32 mm PE 100 pipe	A00202	Meter	720	582.55	4,19,433
54	Civil Work/Cutting/ Breaking and Restoration	A00300				
55	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.					
56	Asphalting	A00301	Meter	18	324.46	5,840
57	Breaking/Cutting of Cement Concrete-Making provision for PE Pipe laying as per site requirement and as per instruction of EIC.	A00302	Meter	300	129.05	38,714
58	Cement Concrete restoration as per scope of work (Excluding Breaking/Cutting)	A00303	Meter	300	907.00	2,72,101
59	Breaking/Cutting of RCC Core- Making provision for PE Pipe laying as per site requirement and as per instruction of EIC.	A00304	Meter	225	202.79	45,627
60	RCC restoration as per scope of work (Excluding Breaking/Cutting)	A00305	Meter	450	1,106.10	4,97,745
61	Tiles/ Paver/ Blocks/ Curb Stones, Red sand stone	A00306	Meter	1,650	331.83	5,47,520
62	Brick Soling/ Stone Soling, etc.	A00307	Meter	300	235.97	70,790
63	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.	A00308	Cubic Meter	3	10,323.60	30,971
64	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.					
65	Type I : Inside size 1500 mm x 1000 mm and upto 1500 mm deep	A00309	EACH	1	29,496.00	29,496
66	Type II : Inside size 1500 mm x 1000 mm and greater than 1500 mm deep	A00310	EACH	1	36,870.00	36,870
67	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.					
68	Type I : Inside size 1500 mm x 1000 mm and upto 1500 mm deep	A00311	EACH	2	55,305.00	1,10,610
69	Type II : Inside size 1500 mm x 1000 mm and greater than 1500 mm deep	A00312	EACH	1	70,053.00	70,053
70	Pipe Laying in any unprepared surface (Katcha surface) / Normal Surface / Hard surface (all type of hard Rock) using open cut with casing / Miling with Casing methodology.	A00400				
71	Laying of all PE pipe (PE 100 SDR11), Including supply of HDPE casing pipe, Saddle, Couplers, End caps etc. (As per Particular job specification.)					
72	Survey of under ground utilities, execution of the work as per specification, including excavation of pits miling 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.					
73	20 mm PE 100 pipe (in 50 mm dia. HDPE Casing Pipe) by open cut Method with casing	A00401	Meter	45	497.75	22,399
74	20 mm PE 100 pipe (in 50 mm dia. HDPE Casing Pipe) by Miling Method with casing	A00402	Meter	45	582.55	26,215
75	32 mm PE 100 pipe (in 75 mm dia. HDPE Casing Pipe)by open cut Method with casing	A00403	Meter	23	545.68	12,551
76	32 mm PE 100 pipe (in 75 mm dia. HDPE Casing Pipe)by Miling Method with casing	A00404	Meter	23	641.54	14,755
77	Supply of GI/ Concrete Sleeves (wherever required as a Special Case as per instructions of the Engineer-in-charge)	A00500				

Sl. No.	Item Description	Item Code	Units	M/s Dev and Company, 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 Rs.)	TOTAL AMOUNT Without Taxes (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 Rs.
78	Supply, installation of sleeve, insertion of pipe, sealing the annular area, 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.					
79	GI Sleeves /Concrete Sleeves					
80	2 1/2" NB, 1' Length	A00501	Nos.	4	213.85	855
81	4" NB, 1' Length	A00502	Nos.	4	376.07	1,504
82	2 1/2" NB, 3' Length	A00503	Nos.	2	516.18	1,032
83	4" NB, 3' Length	A00504	Nos.	2	921.75	1,844
84	MS Enamel Coated					
85	4" NB, 3' Length	A00505	Nos.	1	862.76	863
86	Concrete Sleeve (NP-2 Class)					
87	4" NB, 3' Length	A00506	Nos.	1	213.85	214
88	6" NB, 3' Length	A00507	Nos.	1	346.58	347
89	Note:-The decision regarding use of type of sleeves to be used at various locations shall be made by Engineer- In-Charge (EIC) / Owner					
90	Supply of Copper Jumper wire(wherever required to maintain the continuity of Pipeline to be laid)	A00600				
91	Supply, Installation, Jointing using Soldering/Pin Brazing/other technique to connect and Integrate the PE pipeline laid for traceability purpose					
92	1.2 MM Copper Jumper insulated wire(as per TS wherever required)	A00601	Meter	150	117.98	17,698
93	Fabrication & Installation of Markers	A00700				
94	RCC Route Markers					
95	Supply, fabrication and installation of RCC route markers including application of approved color and quality of primer and paint as per the standard drawing, 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. These works shall be carried out as per installation methodology approved by EIC based on site requirement.	A00701	Nos.	135	442.44	59,729
96	Steel Pole Markers with Foundation					
97	Supply, fabrication and installation of Steel Pole markers including application of approved color and quality of primer and paint as per the standard drawings including all associated civil works such as excavation and construction in all types of soils, construction and pedestals and grouting with concrete, cleaning, stencil letter cutting of lettering, numbers, direction, etc. These works shall be carried out as per installation methodology approved by EIC based on site requirement.	A00702	Nos.	30	2,462.92	73,887
98	Warning Plate Markers					
99	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 standard drawings to be installed near regulator. These works shall be carried out as per installation methodology approved by EIC based on site requirement.	A00703	Nos.	1,350	457.19	6,17,204
100	Paver Block-Tiles Markers					
101	Supply, fabrication and installation of Pvaer Block-Tiles markers of standard size as per industry practice along the route on Paver Block/Tiles on foot Path/As per the instruction of EIC including application of approved color and quality of primer and paint, stencil letter cutting of lettering, numbers, direction, etc. Carrying out all associated works for fixing / grouting / anchoring the marker with surface. These works shall be carried out as per installation methodology approved by EIC based on site requirement.	A00704	Nos.	30	427.69	12,831
102	Crossing of Sewage Drains/Nala alongside of Independent houses where drains/Nalas are being encountered adjacent to houses	A00800				
103	The scope of work include supply of Medium duty GI Casing pipes of 2.5 inches, alongwith padding with sand stone and civil works associated for construction of cover slab as per drawing No. MEC/23VV/05/25/M/Bharatpur/Typ/001.	A00801	Nos.	150	2,949.60	4,42,440
104	PNG Connection to Domestic/ Commercial/ Industrial Consumers	B00100				
105	Installation of Carbon Steel (CS)/ GI Service Pipe	B00101				

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106	Supply/Receipt, Loading, unloading, storing, reloading, transportation, unloading at work site and laying of either Owner supplied Powder coated GI pipes or Contractor supplied Powder coated GI pipes & carbon steel pipes of all sizes & thickness including supply of all associated compatible accessories of all sizes & thickness like Elbows, Tees, unions, sockets, reducers, GI plugs, Sleeves etc., installation of GI line (alongwith installation of required accessories as mentioned above) of all sizes & thickness, including fabrication with supply of all materials, consumables, labour and other incidental works. The scope of work also includes installation of Regulators (4/6 bar to 100/21 mbar and/or 100 mbar to 21 mbar) which shall be provided as free issue item. Installation of all sizes of isolation Valves (which are to be procured & supplied by contractor mentioned elsewhere as separate items in the SOR). Carrying out all temporary, ancillary, auxiliary works required to make the GI line complete and ready for commissioning as per drawings specifications. Handling, aligning, fabrication & installation of the GI Pipes in the work area alongwith required associated compatible accessories as mentioned above as per site condition ad as per instruction of EIC. Execution of all associated works; Supply of all materials, consumables, equipments, labour and other inputs; Storage of material in contractor's store in safe manner, pre-fabrication, access for construction/ fabrication work area. In the case of free issue items, the scope also includes, receiving and loading from Owner's designated store within GA, transportation, unloading and stacking of free issue items at Contractor's store in safe condition.					
107	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:					
108	Preparation and getting approval of execution schedules, execution procedures, drawings/ sketches from Owner/Engineer-in-charge and/or from concerned authority.					
109	Finalisation of optimum route with consent of customer, from transition fitting to cooking oven/ appliance.					
110	Making temporay but stable platforms/ scaffolding/ rope ladders and all other safety measures including safety belts wherever required.					
111	Installation of GI Pipes, Fittings, including NPT threading, painting as specified.					
112	Drillings of holes through walls (Brick, RCC) , Granite, Marble, Glass Cutting with proper heavy duty hammer drill machine tools and tacklees, using proper sealant /orout materialied colors to					
113	In case of Multistorey building where RCC Slab/Visor/Sunshade/Chhajja restrict riser installation then separate payment for cement concrete/ RCC core-cutting with heavy duty drill machine and their restoration shall be paid under SOR items 2.2(a), 2.2(b), 2.2(c) & 2.2(d) and as per instruction and direction of EIC					
114	Supply & Fixing of approved clamps, Dowell Plugs with screws, grout material, suitable thread sealant i.e. Teflon Tape/ lock tight, drilling of holes through tiles/ wood/ marble/ Granite etc. jointing of PE to above Ground service GI pipes, flushing, pneumatic testing, purging with Nitrogen (including supply of Notrogen as inert gas by contractor) and commissioning or make ready for commissioning of the complete system as per specification and as per Instruction of EIC.					
115	Touchup Painting/Painting of outer surface of GI pipe of all sizes along with fittings after proper surface finish by one coat of approved primer paint and two coats of approved synthetic enamel paint complete as per specification & direction of EIC. Restoring the wall surface to original condition to the entire satisfaction of EIC and getting NOC from end user/Consumer/ concerned authorities/ Authorised competent person of the Society.					
116	All above activities to be carried out as per specification to the complete satisfaction of consumer & as desired by Engineer-in-charge.					
117	Handing over the completed works to GAIL for operation/ use, reconciliation of material area wise and obtaining "no objection certificate" from GAIL / GAIL Representative at Site/ CPMC.					
118	Any other activity not mentioned/ covered, explicitly above, but otherwise required for satisfactory completion/ safety/ statutory/ maintenance of works shall also be covered under					
119	1/2" All floors (Including connectivity from TF to regulator.)- with supply of GI Pipes by Contractor	B00102	Meter	4,500	339.20	15,26,418
120	1/2" All floors (Including connectivity from TF to regulator.)- with supply of GI Pipes by Owner on Free Issue Basis.	B00103	Meter	15,000	228.59	34,28,910
121	3/4" All Floors (Including Installation of Risers)- with supply of GI Pipes by Contractor	B00104	Meter	3,000	365.01	10,95,039
122	3/4" All Floors (Including Installation of Risers) with supply of GI Pipes by Owner on Free Issue Basis	B00105	Meter	9,600	228.59	21,94,502
123	1" Dia All Floors ((for Riser Installtions & For Commercial Connections)- with supply of GI Pipes by Contractor (Rates are inclusive of installation by threading, however incase of pipe joining by welding as per direction of EIC, payment for Welding, NDT will be made separately)	B00106	Meter	150	505.12	75,768
124	1" Dia All Floors ((for Riser Installtions & For Commercial Connections)- with supply of GI Pipes by Owner on Free Issue Basis (Rates are inclusive of installation by threading, however incase of pipe joining by welding as per direction of EIC, payment for Welding, NDT will be made separately)	B00107	Meter	90	272.84	24,555

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125	Supply & laying/ installation including fabrication of Contractor supplied Carbon steel piping system of all sizes & thickness including fabrication & installation of required compatible isolation ball valves fittings, flanges, gaskets, valves, NRV, Strainer, couplings, etc of all sizes, thickness & ANSI pressure rating including Pressure Gauge (PG) etc. as per instruction of EIC. Supply of all type of manpower, macinaries, materials , consumables, and other incidental works to carry out & complete the works at site as per instruction of EIC. Flushing, Pneumatic testing, purging with nitrogen (including supply of Notrogen as inert gas by contractor) and commissioning or make ready for commissioning as per specification and as per Instruction of EIC. Any other activity not mentioned/ covered, explicitly above, but otherwise required for satisfactory completion/ safety/ statutory/ maintenance of works shall also be covered under scope of work and has to be completed by contractor within specified schedule time. - 11/2" (1.5") Dia All Floors (For Commercial Connections)- (Payment for Welding, NDT-Radiography will be made separately mentioned elsewhere in the SOR)	B00108	Meter	30	479.31	14,379
126	Supply, laying/ installation & visual testing including fabrication of Contractor supplied Carbon steel piping system of all sizes & thickness including fabrication, installation & visual testing of required compatible fittings, flanges, gaskets, valves, NRV, Strainer, couplings, etc of all sizes, thickness & ANSI pressure rating including Pressure Gauge (PG) etc. as per instruction of EIC. Supply of all type of manpower, macinaries, materials , consumables, and other incidental works to carry out & complete the works at site as per instruction of EIC. Flushing, Pneumatic testing, purging with nitrogen (including supply of Notrogen as inert gas by contractor) and commissioning or make ready for commissioning as per specification and as per Instruction of EIC. Any other activity not mentioned/ covered, explicitly above, but otherwise required for satisfactory completion/ safety/ statutory/ maintenance of works shall also be covered under scope of work and has to be completed by contractor within specified schedule time. - 2" Dia All Floors (For Commercial & Industrial Connections)- (Payment for Welding, NDT-Radiography will be made separately mentioned elsewhere in the SOR)	B00109	Meter	30	626.79	18,804
127	Carrying out Welding of GI/CS Pipes as per latest applicable code & standard for above SOR items B00106, B00107, B00108 & B00109 as per site requirement and instruction of EIC	B00110	Inch-Dia	225	258.09	58,070
128	Carrying out NDT/Radiography of welded joints of CS/GI Pipes as per latest applicable code & standard for above SOR items B00106, B00107, B00108 & B00109 as per site requirement and instruction of EIC	B00111	Inch-Dia	225	22.12	4,977
129	Supply of Nitrogen as inert gas for preservation at positive pressure and/or other works as per site requirement and instruction of EIC (wherever supply of Nitrogen is not covered under the scope of Bidder mentioned elsewhere in the SOR).	B00112	Cubic Meter	75	110.61	8,296
130	Note:- i) Refer Particular Job Specification for supply items. ii) The quantity measurement shall be from the outlet of the Transition Fitting (TF) upto the Meter. All intermediate CS fittings & valves, GI fittings & valves (excluding Flexible Hose / Anaconda, meter and regulator) shall be considered while measuring length of CS/GI Pipes. iii) Supply of isolation Ball Valves, shall be paid as a separate SOR Item. iv) Supply of CS fittings & Valves for 1 1/2" & 2" CS piping [SOR ITEM B00108 & B00109] shall be paid as a separate SOR Item. v) In case of SOR items B00103, B00105 & B00107 above (under SOR item No.- B00101), owner shall supply Plain or Powder Coated GI Pipes (as free issue) remaining scope of supplies of fittings etc. including all associated works shall be as per item nos.-a, c & e (under SOR item No.- B00101)					
131	Cutting/ Breaking and Restoration	B00200				
132	In case of Multistorey building where RCC Slab/Visor/Sunshade/Chhaja restrict riser installation then separate payment for core-cutting with heavy duty drill machine shall be paid under below SOR item and as per instruction and direction of EIC					
133	Breaking/Cutting of Cement Concrete-Making provision for GI Pipe laying	B00201	Inch	450	5.16	2,323
134	Cement Concrete restoration as per scope of work (Excluding Breaking/Cutting)	B00202	Inch	450	25.81	11,614
135	Breaking/Cutting of RCC Core- Making provision for GI Pipe laying	B00203	Inch	300	7.37	2,212
136	RCC restoration as per scope of work (Excluding Breaking/Cutting)	B00204	Inch	300	33.18	9,955
137	Supply of Valves and fittings for Carrying out connection((For Commercial & Industrial Connections)	B00300				
138	Supply of valves and fittings as per Technical Specification and as directed by EIC					
139	Isolation CS Ball Valve 1 1/2 " (1.5") NB, SWE/FE, ANSI pressure class rating 150# / 800# [as per Piping Material Specification (PMS) & Datasheet]	B00301	Nos.	4	674.72	2,699
140	Isolation CS Ball Valve 2" NB, BWE/FE, ANSI pressure class rating 150# (as per PMS & Datasheet)	B00302	Nos.	4	899.63	3,599
141	WNRF Falnge -1 1/2 " (1.5") NB, (as per PMS)	B00303	Nos.	2	331.83	664
142	WNRF Falnge -2" NB, ANSI pressure class rating 150# / 800# (as per PMS)	B00304	Nos.	9	567.80	5,110
143	Elbow -1 1/2 " (1.5") NB, SWE (as per PMS)	B00305	Nos.	9	626.79	5,641
144	Elbow -2" NB, BWE, ANSI pressure class rating 150# (as per PMS)	B00306	Nos.	9	884.88	7,964
145	Tee -Equal -1.5"x1.5"x1.5" NB, SWE, (as per PMS)	B00307	Nos.	5	737.40	3,687

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146	Tee -Equal -2"x2"x2" NB, BWE, ANSI pressure class rating 150# (as per PMS)	B00308	Nos.	5	1,106.10	5,531
147	NRV 1.5" NB, SWE/FE, ANSI pressure class rating 150#/ 800# (as per PMS & Datasheet)	B00309	Nos.	5	958.62	4,793
148	NRV 2" NB, BWE/FE, ANSI pressure class rating 150# (as per PMS & Datasheet)	B00310	Nos.	5	1,474.80	7,374
149	Strainer 1.5"NB, SWE/FE, (as per PMS & Datasheet)	B00311	Nos.	5	737.40	3,687
150	Strainer 2"NB, BWE/FE, ANSI pressure class rating 150# (as per PMS & Datasheet)	B00312	Nos.	5	1,032.36	5,162
151	SS 304 Spiral wound Gasket 1" NB as per specification/ relevant ASME code.	B00313	Nos.	9	36.87	332
152	SS 304 Spiral wound Gasket 1.5" NB as per specification/ relevant ASME code.	B00314	Nos.	9	47.93	431
153	SS 304 Spiral wound Gasket 2" NB as per specification/ relevant ASME code.	B00315	Nos.	15	66.37	995
154	Reducer 2"x1.5" NB, BWE x SWE, as per PMS	B00316	Nos.	5	103.24	516
155	Reducer 1.5"x1" NB, SWE, as per PMS	B00317	Nos.	5	70.05	350
156	Reducer 2"x1" NB, BWE x SWE, as per PMS	B00318	Nos.	5	92.18	461
157	Full coupling of 1.5" NB as per PMS	B00319	Nos.	5	184.35	922
158	Half coupling of 1.5" NB as per PMS	B00320	Nos.	5	110.61	553
159	Full coupling of 1" NB as per PMS	B00321	Nos.	5	132.73	664
160	Half coupling of 1" NB as per PMS	B00322	Nos.	5	66.37	332
161	Stud & Nut for connection of 1.5" NB SWRF Flanges of ANSI pressure class rating 150#/ 800# (as per PMS & relevant code)	B00323	Nos.	26	73.74	1,917
162	Stud & Nut for connection of 2" NB WNRF Flanges of ANSI pressure class rating 150# (as per PMS & relevant code)	B00324	Nos.	53	110.61	5,862
163	Supply of Pressure Gauge for maximum operating pressure 6 bar(g) as per specification of approved make	B00325	Nos.	2	3,687.00	7,374
164	Note:- Before procurement of all above supply items by contractor, quantities to be finalised by					
165	Supply, Installation, Testing & Commissioning of Copper Service Pipes	B00400				
166	Supply and installation of copper tubing and installation of Appliance Ball valves as per Technical specification and alongwith associated accessories/fittings including brass fittings at the outlet of the meter and at the entry of appliance valve as per satisfaction and instruction of EIC. The copper tube and fittings shall be procured from approved vendors who have supplied these items for similar application earlier and with prior approved of Owner / PMC.					
167	Copper tube shall be installed from the downstream of meter upto the isolation/ appliance valve before the customers' appliance as per requirement and to the satisfaction of EIC. The Contractor to provide all equipment, tools & tackles and associated material required necessary to execute the work in an efficient manner by cutting, cleaning, flux application, soldering and lacquering. The work includes supply of all tools, tackles and consumables including clamps for fixing the tubes and restoration of the work area to the satisfaction of the customer.					
168	12.0 mm OD x 0.6 mm wall thickness	B00401	Meter	375	390.82	1,46,558
169	Supply, Installation, Testing & Commissioning of Multi Layer Composite (MLC) Pipes	B00500				
170	Supply and installation of MLC Pipe as per ISO17484-1 latest standard and installation of Appliance Ball valves as per technical specification alongwith associated accessories/fittings including brass fittings at the outlet of the meter and at the entry of appliance valve as per satisfaction and instruction of EIC. The MLC Pipe and fittings shall be procured from approved vendors or from those vendors, who have supplied these items for similar application earlier and with prior approved of Owner / PMC.					
171	MLC Pipe shall be installed from the downstream of meter upto the isolation/ appliance valve before the customer's appliance as per requirement and to the satisfaction of EIC. The Contractor to provide all equipment, tools & tackles and associated material required necessary to execute the work in an efficient manner by cutting, cleaning, Bending, Fixing with clamp etc. The work includes supply of all tools, tackles and consumables including clamps for fixing the MLC pipe and restoration of the work area to the satisfaction of the customer.					
172	16.0 mm OD	B00501	Meter	195	221.22	43,138
173	Note: i) Supply of Appliance Ball Valves shall be paid as a separate SOR item. ii) SOR item No. B00400 & B00500 shall be carried out including supply of materials, only after getting instruction / approval from EIC.					
174	Installation of Regulator, Meter, Flexible Hose & Conversion of Domestic Appliance:	B00600				
175	Installation & fixing of meters & regulators (10 m bar to 21 m bar, wherever required) with associated inlet connections/ fittings, valves, approved meter brackets and other supports by proper scaffolding/ grouting, Restoration of the work area to its original condition to the entire satisfaction of EIC. (Meter and Regulator will be provided as as free issue items)	B00601	Nos.	3,000	184.35	5,53,050
176	Conversion of Domestic Appliances Carrying out the complete works starts from outlet of meters which includes installation of GI pipe, Appliance valve etc & other supports by proper grouting, Restoring the area to original complete as per specification. The work also includes installation and supply of Steel reinforced Flexible Hose as per IS 9573 (with Type as per latest PNGRB guidelines) (Gas tube from end of Isolation Valve upto burner/stove) and conversion of all the burners of the LPG stove (one stove per household) including supply of all types of burner nozzles/jets and associated controls etc.	B00602	Nos.	3,000	221.22	6,63,660

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177	Complete works as per specification for carrying out cleaning and performing minor maintenance, greasing etc. of appliance, testing/ showing performance to the customer, signing of Joint Meter Records (JMR) and issue of guideline / instructing to customer regarding operation & safety norms during use as per specifications. The issued instruction & guideline should be the entire satisfaction of customer.					
178	Supply of Valves for Carrying out connection (For Domestic Connections)	B00700				
179	Supply of Isolation & Appliance Ball Valves as per Technical Specification and as directed by EIC					
180	Isolation Ball Valve 1/2 " max. 6 bar (g)	B00701	Nos.	3,000	228.59	6,85,782
181	Isolation Ball Valve 3/4 " max. 6 bar (g)	B00702	Nos.	1,500	361.33	5,41,989
182	Isolation Ball Valve 1 " max. 6 bar (g)	B00703	Nos.	30	449.81	13,494
183	Appliance Ball Valve 1/2 " max. 35 mili Bar (g)	B00704	Nos.	3,000	191.72	5,75,172
184	Regulator Boxes: Supply & Installation including painting of approved make regulator boxes and installing them firmly by grouting using approved bracket /clamps as per standard drawing & as per specifications and cleaning the area complete to the satisfaction of EIC.	B00800	Nos	4	862.76	3,451
185	Note:- Services of Safety Officer must be provided by the contractor during execution of Works as mentioned in various sub SOR items under SOR items A00100 & B00100 . Safety Officer will report to EIC and liable to follow his instruction time to time during their deputation at work site. The cost of deputation of Safety Officer at works site is included in above sub SOR items rate under SOR items A00100 & B00100. Incase of non deployment of Safety Officer during execution of works at site and/or as per instruction of EIC, penalty will be levied to contractor as per rate/ amount mentioned in Annexure-10 to SCC enclosed with the tender document and the same will be deducted from their RA Bill.					
186	Registration of Domestic PNG Connections	C00100				
187	Assistance in carrying out the work of Domestic PNG registration as per directions/instructions of the Marketing In charge of GAIL (I) Limited / Authorized representative including but not limited to following: 1) Enrolment & Registration of Domestic PNG Customers as per the given target. 2) Collection of filled up form along with Cheque/Demand Draft of Security Deposit amount and documents All other activities as may be required to complete the work in all respect is defined in the Scope of work to be read along with the Special Conditions of Contract and as per instructions of MIC. Carrying out the marketing activities for Domestic PNG connection as detailed in Scope of work, complete in all respects, as per directions/instructions of the Marketing In Charge including but not limited to the following: Distribution of leaflets & FAQ, Installation of banners, to be provided by client, at prime location, Awareness cum Registration Camp, Audio / Visual Presentations, Organizing Road Shows, etc.	C00101	Nos.	900	110.61	99,549
188	Providing the Services of Resources as per site requirement	D00100				
189	Providing the services of Plumber(Manday= 8 Working Hours)	D00101	Manday	3	589.92	1,770
190	Providing the services of Helper(Manday= 8 Working Hours)	D00102	Manday	3	479.31	1,438
191	Providing the Services of Welder(Manday= 8 Working Hours)	D00103	Manday	3	1,290.45	3,871
192	Providing the Services of Eletrician(Manday= 8 Working Hours)	D00104	Manday	3	737.40	2,212
193	Providing the Services of Conversion Technician(Manday= 8 Working Hours)	D00105	Manday	3	626.79	1,880
194	Providing the Services of Grinder(Manday= 8 Working Hours)	D00106	Manday	3	851.70	2,555
195	Note for all above SOR Items Nos. A00100 to D00106 :- i) Quantities mentioned against all above SOR items are estimated & tentative and may vary up to any extent as per site condition and/or as per instruction of EIC. ii) If certain documents, drawings, datasheets, specifications etc. are not included in the bid, the same will be made available to the successfull bidder. While formulating the bid, bidders are requested to quote such items based on practices followed by the similar nature of industries. However procurement & installation of such items will be done as per site requirement after due approval of EIC. iii) Quantities mentioned against all above SOR items are estimated & tentative and may required to be executed either in Ranchi GA or in Jamshedpur GA or in both the GAs, in any ratio, as per site requirement and/or as per instruction of EIC. In this regard, decision of EIC shall be final and binding to the contractor. Hence, bidder is requested to familiarize themselves with both the GAs mentioned above while formulating their bid.					
	Total Excluding GST					2,15,28,360
	Total Including 18% GST					2,54,03,465



मेकॉन लिमिटेड (भारत सरकार का संस्थान)

MECON LIMITED (A GOVT. OF INDIA ENTERPRISES)



13वां एवं 15वां तल, नार्थ टॉवर, स्कोप मीनार, लक्ष्मी नगर व्यावसायिक केन्द्र, दिल्ली-110092 (भारत)
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स्वीकृति का फैक्स / FAX OF ACCEPTANCE (FOA)

FOA NO. 05/51/Q7NT/GAIL/001-ii-14/FOA-965

DATE: 31.07.2023

TO : M/S SHUBHAM CONSTRUCTION
PHONE : +91-0261-2790250, 9825117315
EMAIL : nileshshubham@yahoo.co.in
ATTN : MR. NILESH LEKHADIYA, PROPRIETOR
FROM : SR. GM (CONTRACTS), MECON LIMITED, DELHI

PLEASE REFER TO YOUR OFFER (NIC BID ID: 553851) AND ALL OTHER SUBSEQUENT CORRESPONDENCE AGAINST BIDDING DOCUMENT NO. 05/51/Q7NT/GAIL/001-II-14 DATED 25.04.2023 (TENDER ID: 2023 GAIL 152471) & COMM. CORR.#1 DATED 10.05.23 FOR ABOVEGROUND GI INSTALLATIONS INCLUDING LAST MILE CONNECTIVITY AT CONSUMER END AT JAMSHEDPUR GA (1 YEAR ARC) FOR CGD PROJECT AT SIX GA FOR GAIL (INDIA) LIMITED (.)

WE HEREBY PLEASED TO ISSUE THIS FAX OF ACCEPTANCE (FOA) FOR AWARD FOR APPROX. 40% OF SCOPE OF WORK OF TENDER AT AN ESTIMATED CONTRACT VALUE OF RS.2,86,18,999/- (INDIAN RUPEES TWO CRORE EIGHTY-SIX LAKH EIGHTEEN THOUSAND NINE HUNDRED NINETY NINE ONLY) EXCL. GST. GST SHALL BE PAYABLE EXTRA AS PER TENDER PROVISIONS. (PRESENT RATE OF GST@18%).

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

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

PLEASE SUBMIT CONTRACT PERFORMANCE BANK GUARANTEE @ 10% OF ANNUALISED CONTRACT/ORDER VALUE [EXCLUDING GST] AS PER CL. NO.38 OF ITB OR AS PER BDS (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 Shubham Construction

L/6 Western View Apartment,

Opp. Bhulka Bhavan School, Adajan Road, Surat-395009, Gujarat

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SCHEDULE OF RATES : ABOVEGROUND GI INSTALLATIONS INCLUDING LAST MILE CONNECTIVITY AT CONSUMER END AT JAMSHEDPUR GA (1 YEAR ARC)
Tender No.: 05/51/Q7NT/GAIL/001-II-14, Tender ID: 2023_GAIL_152471

17821 Pages = 00

Sl. No.	Item Description	Item Code	Units	M/s Shubham Construction, Surat		
				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 Rs.)	TOTAL AMOUNT Without Taxes (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 Rs.
1	PE PIPELINE	A00100				
2	Pipe Laying in any unprepared surface (Katcha surface) / Normal Surface / Hard surface(all type of hard Rock) using Open cut / Molding -(without Casing) methodology.	A00101				
3	Receipt, Loading, unloading, storing, reloading, transportation, unloading, Uncoiling, stringing and laying of PE100, SDR11/17.6 line pipes of all sizes including, proper stacking, identification, and supply of accessories of all sizes & thickness like PE Bends, Saddle, Couplers, Endcaps, Tee(Equal/ Reducing), Reducer, CS / GI to PE Fittings (i.e. Transition Fittings of sizes 20 mm to 32 mm), Warning Mat (300 mm width as per attached Technical specification and QAP), 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 associated works; Storage of material in contractor's store in safe manner, pre fabrication / fabrication, access for pre fabrication / fabrication area, all procured / supplied materials for construction, 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 within GA, transportation, unloading and stacking of free issue items at Contractor's store					
4	Carrying out all temporary, ancillary, auxiliary works required to make the laid PE pipeline system complete and ready for commissioning as per drawings, specifications and /or as per direction of Engineer-in-charge (EIC).					
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 including marking the same in topographical sheet, preparation of construction drawings showing survey details, and submit same to Owner for review / approval.					
7	Carrying out preliminary & final survey activities for crossings encountered in pipeline route and preparation of drawings with crossing methodology etc. wherever required and submission to Owner/Engineer-in-charge for review / approval.					
8	Preparation and getting approval of execution schedules, execution procedures, drawings/ sketches/ wherever required from Owner/Engineer-in-charge and/or from concerned authority, making trial pits to determine the underground utilities/ services etc., restoration of the abandoned trial pits to original condition to entire satisfaction of Owner/Engineer-in-charge and/or concerned authority.					
9	Stacking and installation of construction markers, clearing/grading of work area, fencing, grubbing, cutting of trees, etc within work area and full filling all the requirements of various statutory/ environment authorities to their entire satisfaction.					
10	Barricading the work area as per local authorities guidelines/norms and to the entire satisfaction of Owner/ Engineer -in- charge, installation of safety signs to the satisfaction of Owner/ Engineer -in- charge and / or as per local authorities guidelines/norms.					
11	Barricading the pipeline construction area prior to execution of the works as per drawing no. MEC/23QH/05/25/M/001/011 & MEC/23QH/05/25/M/001/10 enclosed with tender document and to the entire satisfaction of owner / engineer- in -charge.					
12	Laying using open trench without casing/Moiling 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 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 (300 mm width as per attached Technical specification and QAP) 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, saddle etc 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 (8" depth X6" length X4" width) which may slightly vary in dimension and volumetric quantities of PCC and may increase up to 25% more as per site requirement., supply and installation of GI Sleeve (Heavy (C-Class) as per IS-1239), supply & filling of sand and installation of TF (along with supply).					
17	Flushing, 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.					

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Sl. No.	Item Description	Item Code	Units	M/s Shubham Construction, Surat		
				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 Rs.)	TOTAL AMOUNT Without Taxes (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 Rs.
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 within GA 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 worthiness of the complete pipelines system along with associated facilities till hand over to the OWNER/ EIC and to carry out rectification/ replacement works for any defect or failures reported by OWNER during defect liability period.					
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 and get it reviewed/ inspected by Owner/ Owner representative/ PMC.					
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 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.					
24	Submission of all documents required for contract closure as mentioned in the contract document as per guidelines of the Owner/PMC.					
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 time schedule at no extra cost to Owner. All the work shall be executed in accordance with the provision of contract and/or latest guidelines of the statutory authority, whichever is stringent.					
26	20 mm PE 100 pipe by Open Cut Method (Laying of 20mm includes ground connectivity (GC)/Service Line to all the customers enroute). Note: Flushing, Testing, commissioning of 20mm and 32mm shall be done together.	A00102	Meter	540	320.77	1,73,215
27	20 mm PE 100 pipe by Moiling without casing Method (Laying of 20mm includes ground connectivity/Service Line to all the customers enroute). Note: Flushing, Testing, commissioning of 20mm and 32mm shall be done together.	A00103	Meter	4,690	405.57	19,02,123
28	32 mm PE 100 pipe by Open Cut Method (Laying of 32mm shall accompany service line/GC with 20mm to the customers enroute). Note: Flushing, Testing, commissioning of 32mm and 20mm shall be done together..	A00104	Meter	540	331.83	1,79,188
29	32 mm PE 100 pipe by Moiling without casing Method (Laying of 32mm shall accompany service line/GC with 20mm to the customers enroute). Note: Flushing, Testing, commissioning of 32mm and 20mm shall be done together.	A00105	Meter	9,600	420.32	40,35,053
30	For laying of 20 mm/32 mm branch PE pipe after taking either online tapping from Gas charged run/ service pipeline of size up to 63 mm or online tapping from positive pressurised (up to 2 bar(g)) condition run/ service pipeline of size up to 63 mm using required size of Saddle: Excavation of all size & depth in all type of under ground soil strata including pebbles, cobbles, gravels, boulders, soft & hard rock etc. to make the pit for installation of Saddle, carrying out installation & fixtting of required size of Saddle, Reducer/ Expander, etc., where run/ service PE pipeline is in charged/Pressurised condition. Installation/ Laying of 20 mm/32 mm PE pipe from Saddle to Transition fittings (CS / GI Pipe to PE Pipe) including supply and installation of GI Sleeve of required sizes (Heavy (C-Class) as per IS-1239), supply & filling of sand, supply & installation of Transition fittings of required sizes (CS / GI Pipe to PE Pipe) including blinding by end cap of pipe near TF shall be carried out as per activity description mentioned above for SOR Item No. A00102, A00103, A00104 & A00105 as applicable and payment shall be made accordingly for these activities. The scope of work against installation/ laying of 20 mm/ 32 mm pipe also includes works like making of PCC pedestal of grade (1:2:4) and size 300mm(Length)X 200mm(Width) X Height (H)), where H>=300mm & will be as per site condition. Note:- 1) The above Item rate is valid for online Tapping including hookup with run/ service/ branch PE Pipeline along with supply of Saddle, Reducer/ Expander, other PE fittings required specifically at tapping point only, when the existing network is already charged/Pressurised condition. Online tapping for Branch/ Service Line/Ground Connectivity to be given to customers shall be paid during connection of Houses (Individual) or Apartment/Society. 2) Flushing, Testing, commissioning of 32mm and 20mm shall be done together or as per instruction of EIC and the payment shall be made as per SOR item rate A00102, A00103, A00104 & A00105 as applicable, mentioned elsewhere in the SOR	A00106	Nos	400	2,027.85	8,11,140

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31	For laying of 20 mm/32 mm branch PE pipe after taking either online tapping from Gas charged run/ service pipeline of size up to 63 mm or online tapping from positive pressurised [up to 2 bar(g)] condition run/ service pipeline of size up to 63 mm using required size of Equal/ Unequal Tee: Excavation of all size & depth in all type of under ground soil strata including pebbles, cobbles, gravels, boulders, soft & hard rock etc. to make the pit for installation of Equal/ Unequal Tee, carrying out installation & fixturing of required size of Equal/ Unequal Tee, Reducer/ Expander, etc., where run/ service PE pipeline is in charged/Pressurised condition. Installation/ Laying of 20 mm/32 mm PE pipe from Saddle to Transition fittings (CS / GI Pipe to PE Pipe) including supply and installation of GI Sleeve of required sizes (Heavy (C-Class) as per IS-1239), supply & filling of sand, supply & installation of Transition fittings of required sizes (CS / GI Pipe to PE Pipe) including blinding by end cap of pipe near TF shall be carried out as per activity description mentioned above for SOR item No. A00102, A00103, A00104 & A00105 as applicable and payment shall be made accordingly for these activities. The scope of work against installation/ laying of 20 mm/ 32 mm pipe also includes works like making of PCC pedestal of grade (1:2:4) and size 300mm(Length)X 200mm(Width) X Height (H)), where H>=300mm & will be as per site condition. Note:- 1) The above item rate is valid for online Tapping including hookup with run/ service/ branch PE Pipeline along with supply of Equal/ Unequal Tee, Reducer/ Expander, other PE fittings required specifically at tapping point only, when the existing network is already charged/Pressurised condition. Online tapping for Branch/ Service Line/Ground Connectivity to be given to customers shall be paid during connection of Houses (Individual) or Apartment/Society. 2) Flushing, Testing, commissioning of 32mm and 20mm shall be done together or as per instruction of EIC and the payment shall be made as per SOR item rate A00102, A00103, A00104 & A00105 as applicable, mentioned elsewhere in the SOR.	A00107	Nos	400	1,954.11	7,81,644
32	Note: i) The lengths of pipelines are tentative, it may increase or decrease as per site requirement or as per instruction of EIC. ii) For restoration of asphalt / concrete roads, the item for construction of asphalt top / concrete top / red stone / paver/RCC/CC shall be paid separately as per the rates quoted for the same elsewhere in the SOR. iii) The Scope of work will start from tapping saddle/Tee on existing/laid PE pipe of various sizes of existing network to Transition Fitting (PE to GI). The tapping saddle/Tee, Transition Fittings and other fittings shall be included in the measurement under relevant SOR. iv) Bidder has to familiarise themselves the entire locations /region/ charge area within the GA and ascertain all type of eventuality/uncertainty before quoting their bid.					
33	PE pipe laying of sizes 20 mm/ 32 mm 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.	A00200				
34	Minimum pipe top cover of 375 mm is required and the line pressure shall not exceed 110mbar.					
35	Necessary mitigation measures such as RCC slab (150mm thick and 300mm width) at the top, of 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.					
36	Receipt, Loading, unloading, storing, reloading, transportation, unloading, Uncoiling, stringing and laying of PE100, SDR11/17.6 line pipes of all sizes including, proper stacking, identification, and supply of accessories of all sizes & thickness like PE Bends, Saddle, Couplers, Endcaps, Tee(Equal/ Reducing), Reducer, CS / GI to PE Fittings (i.e. Transition Fittings of sizes 20 mm to 32 mm), Warning Mat (300 mm width as per attached Technical specification and QAP) 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.					
37	Carrying out all temporary, ancillary, auxiliary works required to make the PE pipeline ready for commissioning as per drawing.					
38	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.					
39	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.					
40	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.					
41	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 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).					
42	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.					

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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 Rs.)	TOTAL AMOUNT Without Taxes (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 Rs.
43	Installation / lowering the pipeline in trench to required depth, supply & placement of HDPE Yellow colour warning mat (300 mm width as per attached Technical specification and QAP) over the pipeline along the complete route as per standard drawing 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.					
44	The scope of work against laying of 20 mm /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).					
45	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.					
46	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.					
47	Maintaining the completed pipelines and installation for any defect or failures during defect liability period.					
48	Handing over the completed works to Owner for their operation/ use, reconciliation of material area wise and obtaining "no objection certificate" from Owner/ Consultant.					
49	On completion of gas charging of pipelines. Preparation and submission of As-built drawings, crossings details, termination, utility graphs and deviation statements.					
50	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.					
51	20 mm PE 100 pipe	A00201	Meter	600	538.30	3,22,981
52	32 mm PE 100 pipe	A00202	Meter	960	582.55	5,59,244
54	Civil Work/Cutting/ Breaking and Restoration	A00300				
55	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.					
56	Asphalting	A00301	Meter	24	324.46	7,787
57	Breaking/Cutting of Cement Concrete-Making provision for PE Pipe laying as per site requirement and as per instruction of EIC.	A00302	Meter	400	129.05	51,618
58	Cement Concrete restoration as per scope of work (Excluding Breaking/Cutting)	A00303	Meter	400	907.00	3,62,801
59	Breaking/Cutting of RCC Core- Making provision for PE Pipe laying as per site requirement and as per instruction of EIC.	A00304	Meter	300	202.79	60,836
60	RCC restoration as per scope of work (Excluding Breaking/Cutting)	A00305	Meter	600	1,106.10	6,63,660
61	Tiles/ Paver/ Blocks/ Curb Stones, Red sand stone	A00306	Meter	2,200	331.83	7,30,026
62	Brick Soling/ Stone Soling, etc	A00307	Meter	400	235.97	94,387
63	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.	A00308	Cubic Meter	4	10,323.60	41,294
64	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.					
65	Type I : Inside size 1500 mm x 1000 mm and upto 1500 mm deep	A00309	EACH	1	29,496.00	29,496
66	Type II : Inside size 1500 mm x 1000 mm and greater than 1500 mm deep	A00310	EACH	1	36,870.00	36,870
67	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.					
68	Type I : Inside size 1500 mm x 1000 mm and upto 1500 mm deep	A00311	EACH	2	55,305.00	1,10,610
69	Type II : Inside size 1500 mm x 1000 mm and greater than 1500 mm deep	A00312	EACH	1	70,053.00	70,053

Sl. No.	Item Description	Item Code	Units	M/s Shubham Construction, Surat		
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70	Pipe Laying in any unprepared surface (Katcha surface) / Normal Surface / Hard surface (all type of hard Rock) using open cut with casing / Molding with Casing methodology	A00400				
71	Laying of all PE pipe (PE 100 SDR11), including supply of HDPE casing pipe, Saddle, Couplers, End caps etc. (As per Particular job specification.)					
72	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.					
73	20 mm PE 100 pipe (in 50 mm dia. HDPE Casing Pipe) by open cut Method with casing	A00401	Meter	60	497.75	29,865
74	20 mm PE 100 pipe (in 50 mm dia. HDPE Casing Pipe) by Molding Method with casing	A00402	Meter	60	582.55	34,953
75	32 mm PE 100 pipe (in 75 mm dia. HDPE Casing Pipe)by open cut Method with casing	A00403	Meter	30	545.68	16,370
76	32 mm PE 100 pipe (in 75 mm dia. HDPE Casing Pipe)by Molding Method with casing	A00404	Meter	30	641.54	19,246
77	Supply of GI/ Concrete Sleeves (wherever required as a Special Case as per instructions of the Engineer-in-charge)	A00500				
78	Supply, installation of sleeve, insertion of pipe, sealing the annular area, 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.					
79	GI Sleeves /Concrete Sleeves					
80	2 1/2" NB, 1' Length	A00501	Nos.	5	213.85	1,069
81	4" NB, 1' Length	A00502	Nos.	5	376.07	1,880
82	2 1/2" NB, 3' Length	A00503	Nos.	2	516.18	1,032
83	4" NB, 3' Length	A00504	Nos.	2	921.75	1,844
84	MS Enamel Coated					
85	4" NB, 3' Length	A00505	Nos.	1	862.76	863
86	Concrete Sleeve (NP-2 Class)					
87	4" NB, 3' Length	A00506	Nos.	1	213.85	214
88	6" NB, 3' Length	A00507	Nos.	1	346.58	347
89	Note:-The decision regarding use of type of sleeves to be used at various locations shall be made by Engineer- In-Charge (EIC) / Owner					
90	Supply of Copper Jumper wire(wherever required to maintain the continuity of Pipeline to be laid)	A00600				
91	Supply, Installation, Jointing using Soldering/Pin Brazing/other technique to connect and Integrate the PE pipeline laid for traceability purpose					
92	1.2 MM Copper Jumper insulated wire(as per TS wherever required)	A00601	Meter	200	117.98	23,597
93	Fabrication & Installation of Markers	A00700				
94	RCC Route Markers					
95	Supply, fabrication and installation of RCC route markers including application of approved color and quality of primer and paint as per the standard drawing, 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. These works shall be carried out as per installation methodology approved by EIC based on site requirement.	A00701	Nos.	180	442.44	79,639
96	Steel Pole Markers with Foundation					
97	Supply, fabrication and installation of Steel Pole markers including application of approved color and quality of primer and paint as per the standard drawings including all associated civil works such as excavation and construction in all types of soils, construction and pedestals and grouting with concrete, cleaning, stencil letter cutting of lettering, numbers, direction, etc. These works shall be carried out as per installation methodology approved by EIC based on site requirement.	A00702	Nos.	40	2,462.92	98,517
98	Warning Plate Markers					
99	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 standard drawings to be installed near regulator. These works shall be carried out as per installation methodology approved by EIC based on site requirement.	A00703	Nos.	1,800	457.19	8,22,938
100	Paver Block-Tiles Markers					
101	Supply, fabrication and installation of Pvaer Block-Tiles markers of standard size as per industry practice along the route on Paver Block/Tiles on foot Path/As per the instruction of EIC including application of approved color and quality of primer and paint, stencil letter cutting of lettering, numbers, direction, etc. Carrying out all associated works for fixing / grouting / anchoring the marker with surface. These works shall be carried out as per installation methodology approved by EIC based on site requirement.	A00704	Nos.	40	427.69	17,108
102	Crossing of Sewage Drains/Nala alongside of Independent houses where drains/Nalas are being encountered adjacent to houses	A00800				
103	The scope of work include supply of Medium duty GI Casing pipes of 2.5 inches, alongwith padding with sand stone and civil works associated for construction of cover slab as per drawing No. MEC/23VV/05/25/M/Bharatpur/Typ/001.	A00801	Nos.	200	2,949.60	5,89,920
104	PNG Connection to Domestic/ Commercial/ Industrial Consumers	B00100				
105	Installation of Carbon Steel (CS)/ GI Service Pipe	B00101				

85

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106	Supply/Receipt, Loading, unloading, storing, reloading, transportation, unloading at work site and laying of either Owner supplied Powder coated GI pipes or Contractor supplied Powder coated GI pipes & carbon steel pipes of all sizes & thickness including supply of all associated compatible accessories of all sizes & thickness like Elbows, Tees, unions, sockets, reducers, GI plugs, Sleeves etc., installation of GI line (alongwith installation of required accessories as mentioned above) of all sizes & thickness, including fabrication with supply of all materials, consumables, labour and other incidental works. The scope of work also includes installation of Regulators (4/6 bar to 100/21 mbar and/or 100 mbar to 21 mbar) which shall be provided as free issue item. Installation of all sizes of isolation Valves (which are to be procured & supplied by contractor mentioned elsewhere as separate items in the SOR). Carrying out all temporary, ancillary, auxiliary works required to make the GI line complete and ready for commissioning as per drawings specifications. Handling, aligning, fabrication & installation of the GI Pipes in the work area alongwith required associated compatible accessories as mentioned above as per site condition and as per instruction of EIC. Execution of all associated works; Supply of all materials, consumables, equipments, labour and other inputs; Storage of material in contractor's store in safe manner, pre-fabrication, access for construction/ fabrication work area. In the case of free issue items, the scope also includes, receiving and loading from Owner's designated store within GA, transportation, unloading and stacking of free issue items at Contractor's store in safe condition.					
107	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:					
108	Preparation and getting approval of execution schedules, execution procedures, drawings/ sketches from Owner/Engineer-in-charge and/or from concerned authority.					
109	Finalisation of optimum route with consent of customer, from transition fitting to cooking oven/ appliance.					
110	Making temporary but stable platforms/ scaffolding/ rope ladders and all other safety measures including safety belts wherever required.					
111	Installation of GI Pipes, Fittings, including NPT threading, painting as specified.					
112	Drillings of holes through walls (Brick, RCC), Granite, Marble, Glass Cutting with proper heavy duty hammer drill machine tools and tackle, using proper sealant /grout material/ed colors to match the original replacement of damages during drilling, restoring the area to original condition.					
113	In case of Multistorey building where RCC Slab/Visor/Sunshade/Chhajja restrict riser installation then separate payment for cement concrete/ RCC core-cutting with heavy duty drill machine and their restoration shall be paid under SOR items 2.2(a), 2.2(b), 2.2(c) & 2.2(d) and as per instruction and direction of EIC					
114	Supply & Fixing of approved clamps, Dowell Plugs with screws, grout material, suitable thread sealant i.e. Teflon Tape/ lock tight, drilling of holes through tiles/ wood/ marble/ Granite etc. jointing of PE to above Ground service GI pipes, flushing, pneumatic testing, purging with Nitrogen (including supply of Nitrogen as inert gas by contractor) and commissioning or make ready for commissioning of the complete system as per specification and as per instruction of EIC.					
115	Touchup Painting/Painting of outer surface of GI pipe of all sizes along with fittings after proper surface finish by one coat of approved primer paint and two coats of approved synthetic enamel paint complete as per specification & direction of EIC. Restoring the wall surface to original condition to the entire satisfaction of EIC and getting NOC from end user/Consumer/ concerned authorities/ Authorised competent person of the Society.					
116	All above activities to be carried out as per specification to the complete satisfaction of consumer & as desired by Engineer-in-charge.					
117	Handing over the completed works to GAIL for operation/ use, reconciliation of material area wise and obtaining "no objection certificate" from GAIL / GAIL Representative at Site/ CPMC.					
118	Any other activity not mentioned/ covered, explicitly above, but otherwise required for satisfactory completion/ safety/ statutory/ maintenance of works shall also be covered under scope of work and has to be completed by contractor within specified schedule time.					
119	1/2" All floors (Including connectivity from TF to regulator):- with supply of GI Pipes by Contractor	B00102	Meter	6,000	339.20	20,35,224
120	1/2" All floors (Including connectivity from TF to regulator):- with supply of GI Pipes by Owner on Free Issue Basis.	B00103	Meter	20,000	228.59	45,71,880
121	3/4" All Floors (Including Installation of Risers):- with supply of GI Pipes by Contractor	B00104	Meter	4,000	365.01	14,60,052
122	3/4" All Floors (Including Installation of Risers) with supply of GI Pipes by Owner on Free Issue Basis	B00105	Meter	12,800	228.59	29,26,003
123	1" Dia All Floors ((for Riser Installations & For Commercial Connections):- with supply of GI Pipes by Contractor (Rates are inclusive of installation by threading, however incase of pipe joining by welding as per direction of EIC, payment for Welding, NDT will be made separately)	B00106	Meter	200	505.12	1,01,024
124	1" Dia All Floors ((for Riser Installations & For Commercial Connections):- with supply of GI Pipes by Owner on Free Issue Basis (Rates are inclusive of installation by threading, however incase of pipe joining by welding as per direction of EIC, payment for Welding, NDT will be made separately)	B00107	Meter	120	272.84	32,741
125	Supply & laying/ installation including fabrication of Contractor supplied Carbon steel piping system of all sizes & thickness including fabrication & installation of required compatible isolation ball valves fittings, flanges, gaskets, valves, NRV, Strainer, couplings, etc of all sizes, thickness & ANSI pressure rating including Pressure Gauge (PG) etc. as per instruction of EIC. Supply of all type of manpower, machineries, materials, consumables, and other incidental works to carry out & complete the works at site as per instruction of EIC. Flushing, Pneumatic testing, purging with nitrogen (including supply of Nitrogen as inert gas by contractor) and commissioning or make ready for commissioning as per specification and as per instruction of EIC. Any other activity not mentioned/ covered, explicitly above, but otherwise required for satisfactory completion/ safety/ statutory/ maintenance of works shall also be covered under scope of work and has to be completed by contractor within specified schedule time. - 11/2" (1.5") Dia All Floors (For Commercial Connections)- (Payment for Welding, NDT-Radiography will be made separately mentioned elsewhere in the SOR)	B00108	Meter	40	479.31	19,172

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126	Supply, laying/ installation & visual testing including fabrication of Contractor supplied Carbon steel piping system of all sizes & thickness including fabrication, installation & visual testing of required compatible fittings, flanges, gaskets, valves, NRV, Strainer, couplings, etc of all sizes, thickness & ANSI pressure rating including Pressure Gauge (PG) etc. as per instruction of EIC. Supply of all type of manpower, machineries, materials, consumables, and other incidental works to carry out & complete the works at site as per instruction of EIC. Flushing, Pneumatic testing, purging with nitrogen (including supply of Nitrogen as inert gas by contractor) and commissioning or make ready for commissioning as per specification and as per Instruction of EIC. Any other activity not mentioned/ covered, explicitly above, but otherwise required for satisfactory completion/ safety/ statutory/ maintenance of works shall also be covered under scope of work and has to be completed by contractor within specified schedule time. - 2" Dia All Floors (For Commercial & Industrial Connections)- (Payment for Welding, NDT-Radiography will be made separately mentioned elsewhere in the SOR)	B00109	Meter	40	626.79	25,072
127	Carrying out Welding of GI/CS Pipes as per latest applicable code & standard for above SOR items B00106, B00107, B00108 & B00109 as per site requirement and instruction of EIC	B00110	Inch-Dia	300	258.09	77,427
128	Carrying out NDT/Radiography of welded joints of CS/GI Pipes as per latest applicable code & standard for above SOR items B00106, B00107, B00108 & B00109 as per site requirement and instruction of EIC	B00111	Inch-Dia	300	22.12	6,637
129	Supply of Nitrogen as inert gas for preservation at positive pressure and/or other works as per site requirement and instruction of EIC (wherever supply of Nitrogen is not covered under the scope of Bidder mentioned elsewhere in the SOR).	B00112	Cubic Meter	100	110.61	11,061
130	Note:- i) Refer Particular Job Specification for supply items. ii) The quantity measurement shall be from the outlet of the Transition Fitting (TF) upto the Meter. All intermediate CS fittings & valves, GI fittings & valves (excluding Flexible Hose / Anaconda, meter and regulator) shall be considered while measuring length of CS/GI Pipes. iii) Supply of isolation Ball Valves, shall be paid as a separate SOR Item. iv) Supply of CS fittings & Valves for 1 1/2" & 2" CS piping [SOR ITEM B00108 & B00109] shall be paid as a separate SOR Item. v) In case of SOR items B00103, B00105 & B00107 above (under SOR item No.- B00101), owner shall supply Plain or Powder Coated GI Pipes (as free issue) remaining scope of supplies of fittings etc. including all associated works shall be as per item nos -a, c & e (under SOR item No. - B00101)					
131	Cutting/ Breaking and Restoration	B00200				
132	In case of Multistorey building where RCC Slab/Visor/Sunshade/Chhajja restrict riser installation then separate payment for core-cutting with heavy duty drill machine shall be paid under below SOR item and as per instruction and direction of EIC					
133	Breaking/Cutting of Cement Concrete-Making provision for GI Pipe laying	B00201	Inch	600	5.16	3,097
134	Cement Concrete restoration as per scope of work. (Excluding Breaking/Cutting)	B00202	Inch	600	25.81	15,485
135	Breaking/Cutting of RCC Core- Making provision for GI Pipe laying	B00203	Inch	400	7.37	2,950
136	RCC restoration as per scope of work. (Excluding Breaking/Cutting)	B00204	Inch	400	33.18	13,273
137	Supply of Valves and fittings for Carrying out connection/(For Commercial & Industrial Connections)	B00300				
138	Supply of valves and fittings as per Technical Specification and as directed by EIC					
139	Isolation CS Ball Valve 1 1/2" (1.5") NB, SWE/FE, ANSI pressure class rating 150# / 800# [as per Piping Material Specification (PMS) & Datasheet]	B00301	Nos.	5	674.72	3,374
140	Isolation CS Ball Valve 2" NB, BWE/FE, ANSI pressure class rating 150# (as per PMS & Datasheet)	B00302	Nos.	5	899.63	4,498
141	WNRF Flange -1 1/2" (1.5") NB, (as per PMS)	B00303	Nos.	3	331.83	995
142	WNRF Flange -2" NB, ANSI pressure class rating 150# / 800# (as per PMS)	B00304	Nos.	12	567.80	6,814
143	Elbow -1 1/2" (1.5") NB, SWE (as per PMS)	B00305	Nos.	12	626.79	7,521
144	Elbow -2" NB, BWE, ANSI pressure class rating 150# (as per PMS)	B00306	Nos.	12	884.88	10,619
145	Tee -Equal -1.5"x1.5"x1.5" NB, SWE, (as per PMS)	B00307	Nos.	6	737.40	4,424
146	Tee -Equal -2"x2"x2" NB, BWE, ANSI pressure class rating 150# (as per PMS)	B00308	Nos.	6	1,106.10	6,637
147	NRV 1.5" NB, SWE/FE, ANSI pressure class rating 150# / 800# (as per PMS & Datasheet)	B00309	Nos.	6	958.62	5,752
148	NRV 2" NB, BWE/FE, ANSI pressure class rating 150# (as per PMS & Datasheet)	B00310	Nos.	6	1,474.80	8,849
149	Strainer 1.5"NB, SWE/FE, (as per PMS & Datasheet)	B00311	Nos.	6	737.40	4,424
150	Strainer 2" NB, BWE/FE, ANSI pressure class rating 150# (as per PMS & Datasheet)	B00312	Nos.	6	1,032.36	6,194
151	SS 304 Spiral wound Gasket 1" NB as per specification/ relevant ASME code.	B00313	Nos.	12	36.87	442
152	SS 304 Spiral wound Gasket 1.5" NB as per specification/ relevant ASME code.	B00314	Nos.	12	47.93	575
153	SS 304 Spiral wound Gasket 2" NB as per specification/ relevant ASME code.	B00315	Nos.	20	66.37	1,327
154	Reducer 2"x1.5" NB, BWE x SWE, as per PMS	B00316	Nos.	6	103.24	619
155	Reducer 1.5"x1" NB, SWE, as per PMS	B00317	Nos.	6	70.05	420
156	Reducer 2"x1" NB, BWE x SWE, as per PMS	B00318	Nos.	6	92.18	553
157	Full coupling of 1.5" NB as per PMS	B00319	Nos.	6	184.35	1,106
158	Half coupling of 1.5" NB as per PMS	B00320	Nos.	6	110.61	664
159	Full coupling of 1" NB as per PMS	B00321	Nos.	6	132.73	796
160	Half coupling of 1" NB as per PMS	B00322	Nos.	6	66.37	398
161	Stud & Nut for connection of 1.5" NB SWRF Flanges of ANSI pressure class rating 150# / 800# (as per PMS & relevant code)	B00323	Nos.	34	73.74	2,507
162	Stud & Nut for connection of 2" NB WNRF Flanges of ANSI pressure class rating 150# (as per PMS & relevant code)	B00324	Nos.	70	110.61	7,743
163	Supply of Pressure Gauge for maximum operating pressure 6 bar(g) as per specification of approved make	B00325	Nos.	4	3,687.00	14,748
164	Note:- Before procurement of all above supply items by contractor, quantities to be finalised by contractor and					
165	Supply, Installation, Testing & Commissioning of Copper Service Pipes	B00400				

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166	Supply and installation of copper tubing and installation of Appliance Ball valves as per Technical specification and along with associated accessories/fittings including brass fittings at the outlet of the meter and at the entry of appliance valve as per satisfaction and instruction of EIC. The copper tube and fittings shall be procured from approved vendors who have supplied these items for similar application earlier and with prior approved of Owner / PMC.					
167	Copper tube shall be installed from the downstream of meter upto the isolation/ appliance valve before the customers' appliance as per requirement and to the satisfaction of EIC. The Contractor to provide all equipment, tools & tackles and associated material required necessary to execute the work in an efficient manner by cutting, cleaning, flux application, soldering and lacquering. The work includes supply of all tools, tackles and consumables including clamps for fixing the tubes and restoration of the work area to the satisfaction of the customer.					
168	12.0 mm OD x 0.6 mm wall thickness	B00401	Meter	500	390.82	1,95,411
169	Supply, Installation, Testing & Commissioning of Multi Layer Composite (MLC) Pipes	B00500				
170	Supply and installation of MLC Pipe as per ISO17484-1 latest standard and installation of Appliance Ball valves as per technical specification along with associated accessories/fittings including brass fittings at the outlet of the meter and at the entry of appliance valve as per satisfaction and instruction of EIC. The MLC Pipe and fittings shall be procured from approved vendors or from those vendors, who have supplied these items for similar application earlier and with prior approved of Owner / PMC.					
171	MLC Pipe shall be installed from the downstream of meter upto the isolation/ appliance valve before the customer's appliance as per requirement and to the satisfaction of EIC. The Contractor to provide all equipment, tools & tackles and associated material required necessary to execute the work in an efficient manner by cutting, cleaning, Bending, Fixing with clamp etc. The work includes supply of all tools, tackles and consumables including clamps for fixing the MLC pipe and restoration of the work area to the satisfaction of the customer.					
172	16.0 mm OD	B00501	Meter	260	221.22	57,517
173	Note: i) Supply of Appliance Ball Valves shall be paid as a separate SOR Item. ii) SOR item No. B00400 & B00500 shall be carried out including supply of materials, only after getting instruction / approval from EIC.					
174	Installation of Regulator, Meter, Flexible Hose & Conversion of Domestic Appliance:	B00600				
175	Installation & fixing of meters & regulators (100 m bar to 21 m bar, wherever required) with associated inlet connections/ fittings, valves, approved meter brackets and other supports by proper scaffolding/ grouting. Restoration of the work area to its original condition to the entire satisfaction of EIC. (Meter and Regulator will be provided as as free issue items)	B00601	Nos.	4,000	184.35	7,37,400
176	Conversion of Domestic Appliances Carrying out the complete works starts from outlet of meters which includes installation of GI pipe, Appliance valve etc & other supports by proper grouting, Restoring the area to original complete as per specification. The work also includes installation and supply of Steel reinforced Flexible Hose as per IS 9573 (with Type as per latest PNGRB guidelines) (Gas tube from end of Isolation Valve upto burner/stove) and conversion of all the burners of the LPG stove (one stove per household) including supply of all types of burner nozzles/jets and associated controls etc.	B00602	Nos.	4,000	221.22	8,84,880
177	Complete works as per specification for carrying out cleaning and performing minor maintenance, greasing etc. of appliance, testing/ showing performance to the customer, signing of Joint Meter Records (JMR) and issue of guideline / instructing to customer regarding operation & safety norms during use as per specifications. The issued instruction & guideline should be the entire satisfaction of customer.					
178	Supply of Valves for Carrying out connection (For Domestic Connections)	B00700				
179	Supply of Isolation & Appliance Ball Valves as per Technical Specification and as directed by EIC					
180	Isolation Ball Valve 1/2 " max. 6 bar (g)	B00701	Nos.	4,000	228.59	9,14,376
181	Isolation Ball Valve 3/4 " max. 6 bar (g)	B00702	Nos.	2,000	361.33	7,22,652
182	Isolation Ball Valve 1 " max. 6 bar (g)	B00703	Nos.	40	449.81	17,993
183	Appliance Ball Valve 1/2 " max. 35 mm Bar (g)	B00704	Nos.	4,000	191.72	7,66,896
184	Regulator Boxes: Supply & Installation including painting of approved make regulator boxes and installing them firmly by grouting using approved bracket/clamps as per standard drawing & as per specifications and cleaning the area complete to the satisfaction of EIC.	B00800	Nos.	5	862.76	4,314
185	Note:- Services of Safety Officer must be provided by the contractor during execution of Works as mentioned in various sub SOR items under SOR items A00100 & B00100. Safety Officer will report to EIC and liable to follow his instruction time to time during their deputation at work site. The cost of deputation of Safety Officer at works site is included in above sub SOR items rate under SOR items A00100 & B00100. In case of non deployment of Safety Officer during execution of works at site and/or as per instruction of EIC, penalty will be levied to contractor as per rate/ amount mentioned in Annexure-10 to SCC enclosed with the tender document and the same will be deducted from their RA Bill.					
186	Registration of Domestic PNG Connections	C00100				
187	Assistance in carrying out the work of Domestic PNG registration as per directions/instructions of the Marketing In charge of GAIL (I) Limited / Authorized representative including but not limited to following: 1) Enrolment & Registration of Domestic PNG Customers as per the given target. 2) Collection of filled up form along with Cheque/Demand Draft of Security Deposit amount and documents All other activities as may be required to complete the work in all respect is defined in the Scope of work to be read along with the Special Conditions of Contract and as per instructions of MIC. Carrying out the marketing activities for Domestic PNG connection as detailed in Scope of work, complete in all respects, as per directions/instructions of the Marketing In Charge including but not limited to the following: Distribution of leaflets & FAQ, Installation of banners, to be provided by client, at prime location, Awareness cum Registration Camp, Audio / Visual Presentations, Organizing Road Shows etc.	C00101	Nos.	1,200	110.61	1,32,732
188	Providing the Services of Resources as per site requirement	D00100				
189	Providing the services of Plumber(Manday= 8 Working Hours)	D00101	Manday	4	589.92	2,360

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190	Providing the services of Helper(Manday= 8 Working Hours)	D00102	Manday	4	479.31	1,917
191	Providing the Services of Welder(Manday= 8 Working Hours)	D00103	Manday	4	1,290.45	5,162
192	Providing the Services of Electrician(Manday= 8 Working Hours)	D00104	Manday	4	737.40	2,950
193	Providing the Services of Conversion Technician(Manday= 8 Working Hours)	D00105	Manday	4	626.79	2,507
194	Providing the Services of Grinder(Manday= 8 Working Hours)	D00106	Manday	4	851.70	3,407
195	Note for all above SOR Items Nos. A00100 to D00106 :- i) Quantities mentioned against all above SOR items are estimated & tentative and may vary up to any extent as per site condition and/or as per instruction of EIC. ii) If certain documents, drawings, datasheets, specifications etc. are not included in the bid, the same will be made available to the successful bidder. While formulating the bid, bidders are requested to quote such items based on practices followed by the similar nature of industries. However procurement & installation of such items will be done as per site requirement after due approval of EIC. iii) Quantities mentioned against all above SOR items are estimated & tentative and may required to be executed either in Ranchi GA or in Jamshedpur GA or in both the GAs, in any ratio, as per site requirement and/or as per instruction of EIC. In this regard, decision of EIC shall be final and binding to the contractor. Hence, bidder is requested to familiarize themselves with both the GAs mentioned above while formulating their bid.					
	Total Excluding GST					2,86,18,999
	Total Including 18% GST					3,37,70,419

Shubham Construction