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Tender Inviting Authority: Maharashtra Natural Gas Limited, Pune

Name of Work: " Tender for item rate contract for the period of 1 year for laying of underground PE Pipeline & aboveground GI-Cu installation- work for City GAs Distribution Network of MNGL Pune GA

Contract No: MNGL/CP/2026-27/02

Name of the Bidder/ Bidding Firm / Company :

PRICE SCHEDULE / SCHEDULE OF RATES (SOR)

NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER	NUMBER #	NUMBER #
SI. No.	Item Description	Quantity	Units	Unit Rate inclusive of all taxes & duties except GST (Rs.)	TOTAL AMOUNT With Taxes including GST @18% Rs. P	TOTAL AMOUNT With Taxes including GST @18% Rs. P
1	2	4	5	6	53	54
1	1.1) MDPE Laying in any surface (including hard rock)					
2	Excluding supply of all MDPE pipes (PE 80/100,SDR11), but Including supply of Bends, Couplers, End caps, Tees, PE Reducer, CS to PE Fitting, Saddle Tapping, Warning mat etc. as required to complete the job. (Particular job specification.) "Receiving and taking-over" as defined in the specification, handling, loading, transportation and unloading of Owner supplied MDPE line pipes (PE80/100, SDR11) of all sizes (as free issue items) from Owner's designated place(s) of issue to Contractor's own stock-yard(s)/ Work Shop(s)/ work-site(s) including proper storing, stacking, identification, providing security & insurance cover, including supply of accessories of all sizes & thickness like Bends, Couplers, End caps, Tee, PE Reducer, CS to PE Fittings, Saddle Tapping, Warning Mat etc.					
3	Stringing/ uncoiling of the MDPE line pipe on the pipeline Right-of-Use, laying/ installation of MDPE line pipe (alongwith installation of required accessories as mentioned above) of following sizes, including executing all works; fabrication, access for construction; supply of all materials (except Owner supplied materials), consumables, labour and other incidental works and handing over the same after return of the surplus pipes to the Owner's designated stockyard(s); carrying out all temporary, ancillary, auxiliary works required to make the MDPE pipeline ready for commissioning as per drawings, 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:					
4	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. Grading the ROU, barricading the work area as per local authorities norms & to satisfaction of EIC, installation of safety signs, trenching to required depth, repairing of all damaged utilities if any, and payment of any compensation (if claimed by owner/other utility agencies). Uncoiling/ stringing of pipes, clamping, jointing of the pipe ends/ fittings/ valves by qualified personnel using approved electro-fusion techniques as per specification.					
5	Excavation of trench and Lowering the pipeline in trench to required depths, placement of HDPE warning grid mat over the pipeline along the complete route, padding around pipeline with suitable approved soil, backfilling with available excavated material after screening, compaction with jumping jack compactor and water at subsequent layers of 150mm above warning mat. All tiles/slabs/curb stones etc removed during excavation shall be placed properly. Roads, pavements, footpaths etc. to be made motorable wherever pipeline is laid. MDPE Pipe shall be laid in such a way so that top cover of MDPE Pipe is 1.0 mtr. However in case if additional depth (up to 1.5 mtr) required due to any reason shall be covered in this SOR.					

6	Installation and electro-fusion jointing of valves wherever required and as directed by Engineer-in-charge. Restoration of area to original condition, including cleaning the area of all unserviceable materials, debris, excess earth near trenches to the designated disposal area as per the specifications, instruction of Owner/Engineer-in-charge and to the satisfaction of local authorities. Restoration of all surrounding ground features to that existing before as detailed out in the specifications and as directed by Engineer-in-charge which would include replanting of any uprooted trees etc. 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.					
7	Maintaining the completed pipelines/ installation for any defect, failures during defect liability period (i.e. 12 months from date of completion of work). Handing over the completed works to MNGL for their operation/ use, returning of all free issue surplus material to MNGL stores, reconciliation of free issue material area wise and obtaining "no objection certificate" from MNGL/Consultant.					
8	Preparation and submission of Daily progress report, Laying Graphs/ PE/ GI line cards. On completion of gas charging of pipelines. Preparation and submission of As-built drawings, crossings details, termination, utility graphs and deviation statements. Submission of all documents required for contract closure in numbers as mentioned in contract.					
9	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 MNGL.					
10	Supply and installation of GI sleeve(21/2" and 3" as instructed by EIC) with concrete mix (Pedestal) and filling it with sand, sealing the annuals, Inserting of MDPE pipe in Hume pipe for road crossing, supply of soft soil if required for padding comes under this SOR is in the contractor's scope. Breaking through any obstructions and their subsequent restoration, as per specifications and instructions of the Engineer-in-charge is included in this SOR item.Liasioning and Follow-up for permission with all the concerned customer, society members, chairmans etc. is the Contractor's scope.					
11	Excavation of hard rock, wherever hard rock of single piece exceeding 1.5m in length removable by pneumatic chisel/ drill as per specifications and direction of EIC including all permissions,safety precautions,removing of debris included in this SOR. Boulders <1.5 mtrs, shall not be considered under this SOR.					
12	Primary responsibility of contractor is to obtain permission from various authorities & management of sites with respect to completion of all works under this SOR					
13	1.1 a : 20 & 32 mm	3,00,000.00	Mtr	398.06	140913240.00	140913240.00
14	1.1 b: 63 & 90 mm	1,12,500.00	Mtr	516.58	68575995.00	68575995.00
15	1.1 c: 125 mm	1,12,500.00	Mtr	565.43	75060832.50	75060832.50
16	1.1d: 180 mm	1,000.00	Mtr	698.52	824253.60	824253.60
17	1.2) Double Laying in same trench					
18	Excluding supply of all MDPE pipe (PE 80/100,SDR11), but Including supply of all the fittings like Bends, Couplers, End caps, Tees, PE Reducer, CS to PE Fitting, Saddle Tapping, Warming mat etc. as required to complete the job (Particular job specification). "Receiving and taking-over" as defined in the specification, handling, loading, transportation and unloading of Owner supplied MDPE line pipes (PE80/100, SDR11) of all sizes (as free issue items) from Owner's designated place(s) of issue to Contractor's own stock-yard(s)/ Work Shop(s)/ work-site(s) including proper storing, stacking, identification, providing security & insurance cover , including supply of accessories of all sizes & thickness like Bends, Couplers, End caps, Tee, PE Reducer, CS to PE Fittings, Saddle Tapping etc. This SOR covers the laying of lower size MDPE pipe, its jointing, testing, commissioning, submission of laying reports,liasioning,permissions of all authority, as-built and other documents etc. as instructed by EIC. Laying of higher size MDPE pipe, its jointing, testing and commissioning will be paid as per the SOR 1.1 & jointing, testing and commissioning of smaller size of pipe shall be paid in this SOR.					

19	Primary responsibility of contractor is to obtain permission from various authorities & management of sites with respect to completion of all works under this SOR					
20	1.2 a: 20 & 32 mm	2,250.00	Mtr	31.63	83977.65	83977.65
21	1.2 b : 63 & 90 mm	2,000.00	Mtr	43.50	102660.00	102660.00
22	1.3) Insertion of MDPE in already laid hume pipe					
23	Excluding trenching work and supply of all MDPE pipe (PE 80/100,SDR11), but Including supply of Bends, Couplers, End caps, Tees, PE Reducer, CS to PE Fitting, Saddle Tapping, Warning mat etc. as required to complete the job (Particular Job Specification). "Receiving and taking-over" as defined in the specification, handling, loading, transportation and unloading of Owner supplied MDPE line pipes (PE80/100, SDR11) of all sizes (as free issue items) from Owner's designated place(s) of issue to Contractor's own stock-yard(s)/ Work Shop(s)/ work-site(s) including proper storing, stacking, identification, providing security & insurance cover, including supply of accessories of all sizes & thickness like Bends, Couplers, End caps, Tee, PE Reducer, CS to PE Fittings, Saddle Tapping, Warning Mat etc. Also fulfilling the other conditions mentioned in SOR item No. 1.1 &1.2 except trenching work. However if excavation of pits required for insertion of MDPE pipes or any other works for completion of the job as per the instructions of EIC shall be covered in this SOR.					
24	Primary responsibility of contractor is to obtain permission from various authorities & management of sites with respect to completion of all works under this SOR					
25	1.3 a: 20 & 32 mm	1,000.00	Mtr	36.25	42775.00	42775.00
26	1.3 b: 63 & 90 mm	1,000.00	Mtr	61.31	72345.80	72345.80
27	1.3 c: 125 mm	1,000.00	Mtr	93.72	110589.60	110589.60
28	1.3 d: 180 mm	100.00	Mtr	196.56	23194.08	23194.08
29	1.4)Testing and commissioning of already laid MDPE pipe of all sizes					
30	Pneumatic testing, purging with nitrogen & Commissioning of already laid MDPE Pipe (PE 80/100, SDR 11) including supply of manpower, labour (to identify the leak / making the pits), jointing of fittings, its installation and manpower, labour (for making the pits) etc. and submission of final documents (Like: As-built etc) comes under SOR (1.5.a) and tapping from main line/charged line is the scope of contractor. The supply of all kind of MDPE fitting including TF etc is covered under the SOR 1.5(b,c,d)					
31	Primary responsibility of contractor is to obtain permission from various authorities & management of sites with respect to completion of all works under this SOR					
32	This SOR also includes any restoration,liasioning,barricades deployment,pit which needs to be done in order to complete the job.					
33	1.4 a: Jointing,testing,commissioning of MDPE pipe of all size	10,000.00	Mtr	49.60	585280.00	585280.00
34	1.4 b: Jointing of 20 mm & 32 mm	1,000.00	No	103.23	121811.40	121811.40
35	1.4 c: Jointing of 63 mm,90 mm & 125 mm	1,000.00	No	742.58	876244.40	876244.40
36	1.4 d: Jointing of 180 mm	10.00	No	1,670.80	19715.44	19715.44
37	1.5) Crossing of Utilities/Drain/Culverts/Nala					
38	Excluding supply of all types of MDPE pipes (PE 80/100,SDR11), but Including supply of all types of MDPE fittings, Warning mat etc. as required to complete the job (Particular job specification). "Receiving and taking-over" as defined in the specification, handling, loading, transportation and unloading of Owner supplied MDPE line pipes (PE80/100, SDR11) of all sizes (as free issue items) from Owner's designated place(s) of issue to Contractor's own stock-yard(s)/ Work Shop(s)/ work-site(s) including proper storing, stacking, identification, providing security & insurance cover , including supply of accessories of all sizes & thickness like Bends, Couplers, End caps, Tee, PE Reducer, CS to PE Fittings, Saddle Tapping etc. This SOR covers the laying/installation of all sizes of MDPE pipes, its jointing, testing, commissioning, submission of laying reports, as-built drawings and other documents etc. as per the instructions of EIC. All types of nala crossing for any length covered in this SOR					

39	<p>Above ground laid MDPE pipe shall be protected by RCC i.e. all sides of MDPE Pipe covered by 4" thick RCC. Providing and laying reinforced cement of grade M-20 with 20mm and down grade crushed stone aggregate in all types of structures like foundations, pedestals, pedestal bases, pipe supports, sleepers cable trench including construction joints, bitumen painting on surface in contact with soil, supplying and fixing reinforcing steel, shuttering, inserts, finishes etc. at all depths and heights complete as per drawings, specifications and direction of the Engineer-in-charge.</p> <p>Unit rate includes cost of labours, tools, tackles, equipment, equipment hire charges, supply of all materials such as minimum 43 grade cement including sulphate resistant cement for sub-structures, R/F steel dia 12mm, Inserts, bolts, conduits, bitumen, other minor construction materials, shuttering, stanging, earthwork in excavation and backfilling using serviceable earth in all conditions, shorting bailing and pumping out water, testing of concrete, curing etc. with all bye works and sundry works.</p>					
40	This SOR also includes any restoration, liasioning, barricades deployment, pit which needs to be done in order to complete the job.					
41	1.5 a: Above ground Crossing of Culverts/Nala	2,250.00	Mtr	2,137.69	5675566.95	5675566.95
42	<p>Excluding supply of all types of MDPE pipes (PE 80/100, SDR11), but Including supply of all types of MDPE fittings, Warming mat etc. as required to complete the job (Particular job specification).</p> <p>"Receiving and taking-over" as defined in the specification, handling, transportation and unloading of Owner supplied MDPE line pipes (PE80/100, SDR11) of all sizes (as free issue items) from Owner's designated place(s) of issue to Contractor's own stock-yard(s)/ Work Shop(s)/ work-site(s) including proper storing, stacking, identification, providing security & insurance cover, including supply of accessories of all sizes & thickness like Bends, Couplers, End caps, Tee, PE Reducer, CS to PE Fittings, Saddle Tapping etc.</p> <p>This SOR covers the laying/installation of all sizes of MDPE pipes, its jointing, testing, commissioning, submission of laying reports, as-built drawings and other documents etc. as per the instructions of EIC.</p>					
43	Suitable size of HDPE casing (NP6 standard) shall be provided by the vendor in case of underground nala / culvert crossing.					
44	Additional material like shuttering for supporting the side wall of the trench or any other material / things required for safe working for completion of job / as per instructions of EIC shall be in the scope of contractor and covered under this SOR.					
45	This SOR also includes any restoration, liasioning, barricades deployment, pit which needs to be done in order to complete the job.					
46	1.5 b: Under ground Crossing of Culverts/Nala	2,000.00	Mtr	2,253.33	5317858.80	5317858.80
47	<p>1.6) Material Cost for Supply of Concrete Sleeves / HDPE Sleeves:</p> <p>Supply, installation of sleeve, insertion of pipe, sealing the annuals, firm fixing of Sleeves with concrete mix. Breaking through any obstructions and their subsequent restoration, as per specifications and instructions of the Engineer-in-charge.</p>					
48	This SOR is not applicable for MOC purpose protection which needs to be given as per instructions of AIC/EIC.					
49	1.6 a: Supply 4" NB, 1m	1,000.00	Mtr	267.35	315473.00	315473.00
50	1.6 b: Supply 6" NB, 1m	1,000.00	Mtr	414.58	489204.40	489204.40
51	1.6 c: Supply 8" NB, 1m	1,000.00	Mtr	625.44	738019.20	738019.20
52	1.6 d: Supply 10" NB, 1m	100.00	Mtr	892.14	105272.52	105272.52
53	<p>1.7) Construction of RCC valve chamber and installation of Extended Stem valve</p> <p>Construction of RCC valve chamber should be done with as per the tender drawing with/without supply of extended stem PE ball valve with/without purge as instructed by EIC. This SOR covers the supply of required MDPE fittings to install the extended stem valve, manpower, material, tools, equipment etc.</p>					
54	Unit rate includes cost of labours, tools, tackles, equipment, equipment hire charges, supply of all materials such as minimum 43 grade cement including sulphate resistant cement for sub-structures, R/F steel dia 12mm, SFRC chamber cover, barricading, liasioning, permissions, etc.					
55	This SOR also includes any restoration, liasioning, barricades deployment, pit which needs to be done in order to complete the job.					
56	1.7 a: Construction of RCC valve chamber & installation with supply Extended stem PE Ball valve	161.00	No	25,434.17	4831983.62	4831983.62
57	1.7 b: Construction of RCC valve chamber & installation with out supply Extended stem PE Ball valve	161.00	No	9,034.03	1716285.02	1716285.02
58	1.8) Fabrication & Installation of Markers					
59	RCC Route Markers: Supply, fabrication and installation of RCC route markers as per the attached drawings, 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.					

60	1.8 a: RCC Route Markers as per Sketch enclosed.	4,520.00	No	525.32	2801846.75	2801846.75
61	Plate Marker: 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, chainage, etc. as per the attached drawings to be installed on the ROU					
62	1.8 b: Plate Markers without Foundation As per Sketch enclosed.	15,000.00	No	182.50	3230250.00	3230250.00
63	1.9) CIVIL WORKS (Preparation of Construction of MRS, DRS Foundation etc.)					
64	Site Grading Earth in excavation and filling to the grades and levels shown in the approved drawings in all kinds of conditions including for Road embankments, using approved quality good earth from designated borrow area, for all heights and depths including clearing and stripping (min. 150mm) of the area marked for filling, taking spot levels, consolidating the exposed natural soil surface, excavating the earth from borrow area loading, transporting & unloading, spreading in layers not exceeding 150mm thickness, breaking clods, watering (if reqd.), ramming and compacting by manual/ mechanical means to give minimum 92% of modified Proctor's density of earth, testing & dressing including disposal of all unserviceable material all complete as per specifications and directions of Engineer-in-charge. (Rate to include cost of all labour, tools, tackles, equipment, hire charges, cost of borrow earth by way of royalties, right of way, cess etc., as applicable with all bye works and sundry works).					
65	1.9 a: Site grading	100.00	Sqm	403.43	47604.74	47604.74
66	PCC 1:2:4 1 Cement : 2 Coarse sand : 4 stone aggregate 20mm nominal size. (Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials, shuttering, earthwork in excavation and backfilling using approved earth in all conditions etc. with all bye works and sundry works.)					
67	1.9 b: PCC 1:2:4	180.00	M3	6,590.85	1399896.54	1399896.54
68	PCC 1:4:8 1 Cement : 4 Coarse sand : 8 stone aggregate 40mm nominal size. (Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials, shuttering, earthwork in excavation and backfilling using approved earth in all conditions etc. with all bye works and sundry works.)					
69	1.9 c: PCC 1:4:8	360.00	M3	5,661.07	2404822.54	2404822.54
70	Reinforced Cement Concrete Providing and laying reinforced cement of grade M-20 with 20mm and down grade crushed stone aggregate in all types of structures like foundations, pedestals, pedestal bases, pipe supports, sleepers cable trench including construction joints, bitumen painting on surface in contact with soil, supplying and fixing reinforcing steel, shuttering, inserts, finishes etc. at all depths and heights complete as per drawings, specifications and direction of the Engineer-in-charge. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 43 grade cement including sulphate resistant cement for sub-structures, R/F steel dia 12mm, Inserts, bolts, conduits, bitumen, other minor construction materials, shuttering, stanging, earthwork in excavation and backfilling using serviceable earth in all conditions, shorting bailing and pumping out water, testing of concrete, curing etc. with all bye works and sundry works.					
71	1.9 d:Reinforced Cement Concrete	360.00	M3	9,770.70	4150593.36	4150593.36
72	1.10)Shifting & installation of DPRS/IPRS/MRS/SRM/DCS etc. Receiving and taking over, handling, loading, transportation and unloading of Owner's supplied MRS/DRS up to 10 T from Owner's designated stack-yard to Contractor's stock yard/workshop/work-site including preliminary activities. This SOR also covers the installation of MRS/DRS on site, including the supplied of all required material and tools which is required to installed the MRS/DRS(Like: Fixing of Unit, Earthing etc.). Providing, Earthing of IPRS and DPRS - Testing and certification of earthing stations including providing and laying 300 x 300 x 3 mm GI plate as a electrode To form earth electrode with inspection chamber, 300 x300 mm Chamber with earth link cover, painting and identification etc.(Scope including excavation by manual/Machines /Boaring, Charcoal, salt, or Bentonite slurry, BFC, construction of chamber etc as per drawing) to complete the job in all respect as per satisfaction of EIC) The contractor shall pay LUMSUM charges for shifting of MRS, DRS up to 10 Ton Capacity which includes loading, unloading by cranes, manpower, tools and tackles, ropes , vehicle required for shifting of MRS/DRS , managing transit issues etc. in a safe manner. Damage of assets will recover from contractors. Shifting activities will perform as directed by AIC/EIC with proper documentation & written mail communications.					
73	1.10 a:Shifting of DPRS/IPRS/MRS/SRM/DCS	200.00	No	8,503.59	2006847.24	2006847.24
74	1.10 b:Installation of DPRS/IPRS/MRS/SRM/DCS	200.00	No	8,407.51	1984172.36	1984172.36
75	1.11) Restoration of trenches					

76	Restoration of the roads, pavements, channels, footpaths, tiles etc. (in case of inter locking tiles/paver blocks, farshi etc it is contractor's responsibility to remove it safely and carefully to restore after pipe laying, testing and compaction) to original condition including supply of the approved quality material required, as per local authorities norms and MNGL specification, obtaining NOC from concerned local authorities/land owners/ third party inspection agencies designated by MNGL and to the satisfaction of Engineer-in-charge.					
77	Restoration of trenches for Ashphalted/Bituminous Roads: Restoration to original condition of dismantled surface like Asphalted/Bituminous Road, Concrete pavement, Agra/Kota Stones /Tiles (Chequered / Interlocking etc.), Dry Brick Pavement, as per the technical specifications attached in the tender after laying of pipeline in built-up surface, as per directions of EIC / Site Incharge. Scope includes supply of the approved quality of material , testing of material by third party agencies as per technical specification / PMC / PCMC / PWD / National Highways / JNNURM / Military Engineering Services / Gram Panchayat / Railways or any other government / private authority standards, Submission of restoration reports, obtaining no objection certificate from the concern authorities / land owners / third party inspection agencies designated by land owning agencies and owner.					
78	This SOR also covers any repair/rework which needs to be done till closure of Service order/till DLP is completed.					
79	1.11 a:Restoration of trenches for Ashphalted/Bituminous roads	3,000.00	Mtr	811.23	2871754.20	2871754.20
80	Cement Concrete Surface: Top Surface- PCC 1:2:4, Min as original thickness compacted with plate vibrator shall be laid over base course.Base course- PCC 1:5:10, min 75mm thick laid over compacted backfilled earth.					
81	Chequered Cement concrete Tiles/Pre-cast CC Tiles/Kota stone floor/red stone floor. Inter locking CC/paver black: Top Surface-Tiles/floor (as per original surface) shall be laid over cement Sand Mortar 1:6,min 20mm thick over base course.Base course- PCC 1:5:10, min 75mm thick laid over compacted backfilled earth.					
82	This SOR also covers any repair/rework which needs to be done till closure of Service order/till DLP is completed.					
83	1.11 b: Restoration of trenches for Concrete/existing Tiles/existing Paver Blocks/existing Farshi	1,44,000.00	Mtr	331.26	56287699.20	56287699.20
84	1.11 c: Restoration of trenches for new Tiles/new Paver Blocks/new Farshi	96,000.00	Mtr	397.51	45029932.80	45029932.80
85	1.12)Groove cutting: Groove cutting in RCC/CC/PCC etc. with supply of all type of tools, material, manpower, helper etc as required and bitumen filling (if required) in the gap after the trench restoration as per specifications and cleaning the area complete to the satisfaction of EIC. In this SOR, One (1) running mtr means cutting of both side of the trench or Per running trench length.	30,000.00	Mtr	49.64	1757256.00	1757256.00
86	1.13)Structural work (Like-Fencing of DPRS/IPRS etc) : Supply of all materials, fabrication and erection of chain link fencing (inclusive the gate, same as chainlink fencing) 2.1m high with mesh up to 2m height and barbed wire fencing complete in all respects including painting as per TS on all MS items, all works as per specification and tender drawing, complete to the satisfaction of EIC.	20.00	Mtr	4,893.56	115488.02	115488.02
87	1.14)Service Regulator					
88	Service Regulator: Excluding the Supply of SR but including the supply of approved quality of sand, brick, cement, paint etc for preparation of foundation & installing of service regulator firmly on foundation as per drawing enclosed & as per specifications and cleaning the area. Complete the job as per the instruction and satisfaction of EIC.					
89	1.14 a:Service regulator 25 & 50 SCMH(4 bar to 100 mBar)	600.00	No	1,171.09	829131.72	829131.72
90	1.14 b:Service regulator 100 & 200 SCMH(4 bar to 100 mBar)	225.00	No	2,225.71	590926.01	590926.01
91	1.15) Deployment of Safety Barricades	2,03,400.00	Mtr	20.85	5004250.20	5004250.20
92	Contractor shall deploy the Safety barricades on the sites where Medium Pressure (MP) Pipeline (out site the society) works going on the main roads of any Govt./Pvt authority. In this SOR payment shall be made on the running meter basis. Quantity shall be varified according to SOR item no. 1. Deployed barricades shall be as per approved drawing by EIC. For claim Contractor has to submit the colored photographs with location identification/landmark with back filling report and contractor shall ensure the maximum 1m gap between two safety barricades which shall be covered by caution tape at least minimum three points/location. If fails contractor shall not be eligible for payment.					
93	1.16) LMC(Last Mile connectivity) for commercial connection in gasified area	1,200.00	No	9,340.23	13225765.68	13225765.68
94	Successful commissioning of Commercial connection and submission of related documents including JMR					
95	1.17) Liasioning LS rate for commercial connection upto 100 Mtr in gasified area	1,000.00	No	6,961.67	8214770.60	8214770.60

96	The contractor shall pay the lumpsum liasioning charges for executions of commercial connection having MDPE laying of less than Or up to 100 meters. Liasioning rate will get to contractors only after successful laying, testing/commissioning shown by the contractor to respective AIC. Lumpsum Liasioning will pay for, follow-up , day to day site co-ordination for permission/issues with all concerned authorities and boards viz PMC, PCMC, MIDC, PWD, RAILWAYS , NH, DEFENCE, LOCAL MUNICIPAL, PANCHAYAT, ELECTRICITY, REC, RES, SEWAGE WATER, DRINKING WATER, FOREST,OWNERS OF OFC,TRAFFIC,PRIVATE LAND OWNER, FIRE BRIGADE , LAW & ORDER,SHOP KEEPERS ETC.					
97	1.18)Lumpsum rate for Laying, testing and Commissioning upto 25 Mtrs for execution of Commercial Connections	960.00	No	10,124.63	11469180.86	11469180.86
98	This SOR is applicable for laying, testing and commissioning of MDPE Pipeline (Dia. 32mm/63mm/125mm) upto 25 meters for execution of commercial connection. For the additional length to be laid over and above 25 mtrs, pipeline laying rate shall be paid as per SOR item no. 1.1 a					
99	1.19 a: HDD Laying(Dia.63,Dia.90 and Dia.125)in Soft soil surface	6,750.00	Mtr	1,905.64	15178422.60	15178422.60
100	MDPE Pipe laying in soft soil/murum,using HDD Technique- Scope of works includes- i) All the fittings in the scope of vendor ii)All types of required survey i.e.Utility survey,GPR Survey,Route Survey & any other survey as required iii) Arrangement of water iv) Excavation for entry & exit pit& acces forpalcement of HDD Machine v) Bentonite & polymer mixing & disposal of used material i.e.water,debris & other material from site. vi) HDD Machine transportation. vii) Liasioning,Laying,Testing with all joints,commissioning of the entire laid pipeline. viii) Submission of all documents,TC, as built drawings.Any other activity which needs to be done for completion of pipeline laying works. ix) Rectification of damaged utilities on immediate basis.					
101	1.19 b:HDD Laying(Dia.63,Dia.90 and Dia.125)in Hard soil surface	4,500.00	Mtr	7,487.04	39756182.40	39756182.40
102	MDPE Pipe laying in Hard soil,using HDD Technique- Scope of works includes- i) All the fittings in the scope of vendor ii)All types of required survey i.e.Utility survey,GPR Survey,Route Survey & any other survey as required iii) Arrangement of water iv) Excavation for entry & exit pit& acces forpalcement of HDD Machine v) Bentonite & polymer mixing & disposal of used material i.e.water,debris & other material from site. vi) HDD Machine transportation. vii) Liasioning,Laying,Testing with all joints,commissioning of the entire laid pipeline. viii) Submission of all documents,TC, as built drawings.Any other activity which needs to be done for completion of pipeline laying works. ix) Rectification of damaged utilities on immediate basis.					
103	2.1) Installation of GI threaded Service Pipe					
104	Excluding supply of all GI pipes, Isolation and appliance valves (as free issue items) but, Including supply of all GI fittings like Elbows, Tees, unions, sockets, reducers, GI plugs etc. as required to complete the job. (Particular job specification.)					
105	"Receiving and taking-over" as defined in the specification, handling, loading, transportation and unloading of Owner supplied GI pipes of all sizes, Isolation and appliance valves (as free issue items) from Owner's designated place(s) of issue to Contractor's own stock-yard(s)/ Work Shop(s)/ work-site(s) including proper storing, stacking, identification, providing security & insurance cover , including supply of GI fittings/accessories of all sizes & thickness like Elbows, Tees, unions, sockets, reducers, GI plugs etc., installation of GI line (alongwith installation of required accessories as mentioned above) of following sizes, including fabrication with supply of all materials (except Owner supplied materials),					
106	consumables, labour and other incidental works and handing over the same after return of the surplus pipes to the Owner's designated store; carrying out all temporary, ancillary, auxiliary works required to make the GI line ready for commissioning as per drawings, 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:					

107	Preparation and approval of schedules, execution procedures, sketches. Finalisation of optimum route with consent of customer, from transition fitting to cooking oven/ appliance. Making temporary but stable platforms/ scaffolding/ rope ladders and all other safety devices. Installation of GI Pipes & Fittings, Valves etc. including NPT threading, painting as specified (installation of meters & regulators forms a separate SOR item). 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, testing, purging with Nitrogen and commissioning of the complete installation as per specification.					
108	Painting of pipe & 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. All above activities to be carried out as per specification to the complete satisfaction of consumer & as desired by Engineer-in-charge.					
109	Handing over the completed works to MNGL for their operation/ use, returning of all free issue surplus material to MNGL stores, reconciliation of free issue material area wise and obtaining "no objection certificate" from MNGL/ Consultant.					
110	Any other activity(such as drilling holes of all size & glass cutting, installation of regulator"4bar-21mbar" in the riser and two MCV in lateral for each house are included in this rate) 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.Liasioning and Follow-up for permission with all the concerned customer, society member etc. is the scope Contractor.					
111	2.1 a:Laying of ½" GI pipe- All floors	6,25,000.00	Mtr	230.56	170038000.00	170038000.00
112	2.1 b:Laying of ¾" GI pipe- All floors	62,500.00	Mtr	245.64	18115950.00	18115950.00
113	2.1 c:Laying of 1" GI pipe- All floors	62,500.00	Mtr	290.68	21437650.00	21437650.00
114	2.2) Installation of GI welded Pipe					
115	Excluding supply of all GI pipes, Isolation and appliance valves (as free issue items) but, Including supply of all forged fittings like Elbows, Tees, unions, sockets, reducers, GI plugs etc. as required to complete the job. (Particular job specification.)					
116	"Receiving and taking-over" as defined in the specification, handling, loading, transportation and unloading of Owner supplied GI pipes of all sizes, Isolation and appliance valves (as free issue items) from Owner's designated place(s) of issue to Contractor's own stock-yard(s)/ Work Shop(s)/ work-site(s) including proper storing, stacking, identification, providing security & insurance cover, including supply of forged fittings/accessories of all sizes & thickness like Elbows, Tees, unions, sockets, reducers, GI plugs etc., installation of GI line (alongwith installation of required accessories as mentioned above) of following sizes, including fabrication with supply of all materials (except Owner supplied materials),					
117	consumables, labour and other incidental works and handing over the same after return of the surplus pipes to the Owner's designated store; carrying out all temporary, ancillary, auxiliary works required to make the GI line ready for commissioning as per drawings, 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:					
118	Preparation and approval of schedules, execution procedures, sketches. Finalisation of optimum route with consent of customer, from transition fitting to cooking oven/ appliance. Making temporary but stable platforms/ scaffolding/ rope ladders and all other safety devices. Installation of GI Pipes & forged Fittings, Valves etc. including NPT threading, painting as specified (installation of meters & regulators forms a separate SOR item). 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/glass etc. jointing of PE to above Ground service GI pipes, testing, purging with Nitrogen and commissioning of the complete installation as per specification.					
119	Painting of pipe & 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. All above activities to be carried out as per specification to the complete satisfaction of consumer & as desired by Engineer-in-charge.					
120	Handing over the completed works to MNGL for their operation/ use, returning of all free issue surplus material to MNGL stores, reconciliation of free issue material area wise and obtaining "no objection certificate" from MNGL/ Consultant.					
121	Any other activity(like drilling holes of all size, glass cutting etc and installation of regulator "4bar-21mbar" in the riser and two MCV in lateral for each house are included in this rate) 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.Liasioning and Follow-up for permission with all the concerned customer, society member etc. is the scope of Contractor.					
122	2.2 a: Laying of ½" GI pipe- All floors	2,25,000.00	Mtr	278.69	73992195.00	73992195.00
123	2.2 b: Laying of ¾" GI pipe- All floors	22,500.00	Mtr	332.44	8826282.00	8826282.00
124	2.2 c: Laying of 1" GI pipe- All floors	90,000.00	Mtr	389.79	41395698.00	41395698.00
125	2.2 d: Laying of 1.5" & 2" GI pipe- All floors	11,250.00	Mtr	644.62	8557330.50	8557330.50

126	2.3 a: Installation of domestic meter, regulator, Cu-GI Pipe and conversion of appliance (Project Societies)	1,00,000.00	No	1,783.82	210490760.00	210490760.00
127	Installation of domestic meter, regulator, Cu Pipe and conversion of appliance: "Receiving and taking-over" as defined in the specification, handling, loading, transportation and unloading of Owner supplied Copper pipes & supply of necessary copper fittings (like elbow, coupler, tee etc) required for installation of copper tubing as per Technical Specification and satisfaction of EIC. The copper fittings shall be procured from vendors who have supplied these items for similar application earlier and with prior approved of Client / Consultant.					
128	Copper service pipe shall be installed (rate of drilling holes/glass cutting of all size are included in the rate) from the downstream of meter upto the isolation valve before the customers' appliance as per MNGL's Drawing to the satisfaction of EIC. The Contractor to provide all equipment, tools and material 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.					
129	12.0 mm OD x 0.6 mm wall thickness,					
130	Installation of Domestic Meter: Installation & Fixing of meters with associated inlet and outlet connections/ fittings, valves approved meter brackets and other supports by proper scaffolding/ grouting, Restoring the area to original condition as per specification.					
131	Installation of domestic Regulator : Installation & Fixing of Domestic regulator with associated inlet and outlet connections/ fittings, purging valves approved regulator brackets and other supports by proper scaffolding/ grouting, Restoring the area to original condition as per specification.					
132	Conversion of all types of LPG kitchen appliances to NG based appliances. Supply & changing of nozzles/ jets/grill/oven and associated controls for domestic & imported appliances with proper tools & tackles. Supply and installation of Steel Braided Hose (Suraksha make or Equivalent with ISI mark) between Appliance Valve and the Appliance, wherever required as per the instructions of the Engineer-In-Charge.					
133	Cleaning and performing minor maintenance, greasing etc. of domestic appliance, testing/ showing performance to the customer ,signing of joint meter records (JMR) & uploded in system and instructing customer on use & safety norms, complete as per specifications & to satisfaction of customer/Engineer-in-charge					
134	2.3 b: Installation of domestic meter, regulator, Cu-GI Pipe and conversion of appliance (Online Societies)	1,00,000.00	No	2,104.69	248353420.00	248353420.00
135	This SOR includes GI installation upto 10 m and copper installation upto 5 m per connection. All other scope and conditions shall remain as specified in SOR Item No. 2.3(a).					
136	2.3 c:Conversion(Testing of already installed meter cu and conversion)	20,000.00	No	255.24	6023664.00	6023664.00
137	This SOR includes testing of already installed meter and conversion with rubber tube.					
138	Conversion of all types of LPG kitchen appliances to NG based appliances. Supply & changing of nozzles/ jets/grill/oven and associated controls for domestic & imported appliances with proper tools & tackles. Supply and installation of Steel Braided Hose (Suraksha make or Equivalent with ISI mark) between Appliance Valve and the Appliance, wherever required as per the instructions of the Engineer-In-Charge.					
139	Cleaning and performing minor maintenance, greasing etc. of domestic appliance, testing/ showing performance to the customer ,signing of joint meter records (JMR) & uploded in system and instructing customer on use & safety norms, complete as per specifications & to satisfaction of customer/Engineer-in-charge					
140	2.4 a) Installation of non domestic Diaphragm Meter	840.00	No	2,269.80	2249825.76	2249825.76
141	Installation of non domestic Diaphragm Meter: Installation & Fixing of meters with associated inlet and outlet connections/ fittings, valves approved meter brackets and other supports by proper scaffolding/ grouting, Restoring the area to original condition as per specification.					
142	2.4 b) Installation of non domestic RPD Meter & Regulator with/without EVC	360.00	No	13,008.83	5526150.98	5526150.98
143	Installation of non domestic RPD Meter & Regulator with/without EVC Installation of RPD meters, regulator & EVC supplied by MNGL.all necessary fittings like Y-type strainer,Conical Filter, Orifice plate, pressure guage, etc are in the scope of Vendor & the vendor has to submit TC to MNGL for the fittings/accessories used in the assembly & the whole assembly should be done as per the directives of EIC/AIC (For reference sketch is attached in tender document)					
144	2.5) Installation of non domestic Regulator	840.00	No	906.27	898294.82	898294.82
145	Installation of non domestic Regulator : Installation & Fixing of Service/Commercial/Domestic regulator with associated inlet and outlet connections/ fittings, purging valves approved regulator brackets and other supports by proper scaffolding/ grouting, Restoring the area to original condition as per specification.					

146	2.6) Testing, commissioning and painting of already laid GI pipe (Threaded and welded) Natural gas pipeline upto 2 " without supply of fitting.					
147	Testing & Commissioning of already laid GI pipe: Excluding supply of all GI pipes, Isolation and appliance valves (as free issue items) but, Including supply of all GI fittings like Elbows, Tees, unions, sockets, reducers, GI plugs etc. as required to complete the job. (Particular job specification.)					
148	Jointing of PE to above Ground service GI pipes, testing, purging with Nitrogen and commissioning of the complete installation as per specification. Painting of 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. All above activities to be carried out as per specification to the complete satisfaction of consumer & as desired by Engineer-in-charge.					
149	Painting of already laid GI pipe: Painting of pipe & 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. All above activities to be carried out as per specification to the complete satisfaction of consumer & as desired by Engineer-in-charge.					
150	2.6 : GI Pipe testing,commissioning and painting of all sizes	1,000.00	Mtr	47.61	56179.80	56179.80
151	3) GI-Cu rectification work					
152	3.1) Dismantling & Installation of GI service pipe with supply of all the required fittings (Forged fittings for welded work and GI threaded fittings for GI work)					
153	Dismantling of GI welded/threaded pipe laid by another contractor & installation of new GI welded / threaded pipe,Excluding supply of all GI pipes, Isolation and appliance valves (as free issue items) but, Including supply of all GI / forged fittings like Elbows, Tees, unions, sockets, reducers, GI plugs etc. as required to complete the job. (Particular job specification.)					
154	"Receiving and taking-over" as defined in the specification, handling, loading, transportation and unloading of Owner supplied GI pipes of all sizes, Isolation and appliance valves (as free issue items) from Owner's designated place(s) of issue to Contractor's own stock-yard(s)/ Work Shop(s)/ work-site(s) including proper storing, stacking, identification, providing security & insurance cover, including supply of GI/forged fittings/accessories of all sizes & thickness like Elbows, Tees, unions, sockets, reducers, GI plugs etc., installation of GI line (alongwith installation of required accessories as mentioned above) of following sizes, including fabrication with supply of all materials (except Owner supplied materials),					
155	consumables, labour and other incidental works and handing over the same after return of the surplus pipes to the Owner's designated store; carrying out all temporary, ancillary, auxiliary works required to make the GI line ready for commissioning as per drawings, 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:					
156	Preparation and approval of schedules, execution procedures, sketches. Finalisation of optimum route with consent of customer, from transition fitting to cooking oven/ appliance. Making temporary but stable platforms/ scaffolding/ rope ladders and all other safety devices. Installation of GI Pipes & forged/GI threaded Fittings, Valves etc. including NPT threading, painting as specified (installation of meters & regulators forms a separate SOR item). Supply & Fixing of approved clamps, electrodes for welding of Pipes, Dowell Plugs with screws, gROUT material, suitable thread sealant i.e. Teflon Tape/ lock tight, drilling of holes through tiles/ wood/ marble/ Granite/glass etc. jointing of PE to above Ground service GI pipes, testing, purging with Nitrogen and commissioning of the complete installation as per specification.					
157	Painting of pipe & 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. All above activities to be carried out as per specification to the complete satisfaction of consumer & as desired by Engineer-in-charge.					
158	Handing over the completed works to MNGL for their operation/ use, returning of all free issue surplus material to MNGL stores, reconciliation of free issue material area wise and obtaining "no objection certificate" from MNGL/ Consultant.					
159	Any other activity (like drilling holes of all size, glass cutting etc and installation of regulator "4bar-21mbar" in the riser and two MCV in lateral for each house are included in this rate) 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.Liasioning and Follow-up for permission with all the concerned customer, society member etc. is the scope of Contractor.					
160	3.1: Dismantling & Installation of GI pipe upto 2" size - All floors	1,000.00	Mtr	319.92	377505.60	377505.60
161	3.2) Dismantling & Installation, Testing and Commissioning of Copper Service Pipes and Domestic Meter, regulator without supply of fittings.					

162	Dismantling & Installation of Cu pipe: Dismantling of copper pipe laid by another contractor (or existing) & installation of new copper pipe, "Receiving and taking-over" as defined in the specification, handling, loading, transportation and unloading of Owner supplied Copper pipes & supply of necessary fittings (is under SOR 3.3) required for installation of copper tubing as per Technical Specification and satisfaction of EIC. The copper fittings shall be procured from vendors who have supplied these items for similar application earlier and with prior approved of Client / Consultant.					
163	Copper service pipe shall be installed (rate of drilling holes of all size are included in the rate) from the downstream of meter upto the isolation valve before the customers' appliance as per MNGL's Drawing to the satisfaction of EIC. The Contractor to provide all equipment, tools and material 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.					
164	12.0 mm OD x 0.6 mm wall thickness,					
165	3.2 a: Dismantling & Installation of Cu pipe.	500.00	Mtr	293.64	173247.60	173247.60
166	3.2 b: Dismantling & Installation of Domestic Meter: Dismantling of Domestic Meter installed by another contractor (or existing) & installation of new Domestic Meter: Installation & Fixing of meters with associated inlet and outlet connections/ fittings, valves approved meter brackets and other supports by proper scaffolding/ grouting, Restoring the area to original condition as per specification.	100.00	No.	74.22	8757.96	8757.96
167	3.2 c: Dismantling & Installation of Domestic Regulator: Dismantling of Domestic Regulator & installation of new Domestic Regulator : Installation & Fixing of Domestic regulator with associated inlet and outlet connections/ fittings, purging valves approved regulator brackets and other supports by proper scaffolding/ grouting, Restoring the area to original condition as per specification. supply of necessary fittings comes under SOR 3.3	100.00	No.	37.12	4380.16	4380.16
168	3.3) Supply & installation of fittings and other material etc.					
169	This SOR covers covers the supply of the fitting and its installation. Contractor has to supply the required tools, associated material and labour or what ever is required to complete the job or as instructed by EIC. This SOR will operate only for the part-3 "GI-Cu rectification work" of the SOR except SOR item No. 3.1					
170	3.3 a: Meter Bracket	100.00	No.	59.57	7029.26	7029.26
171	3.3 b:PVC sleeve up to 2" (length 12")	100.00	No.	29.49	3479.82	3479.82
172	3.3 c:clamping the GI pipe up to 2"	100.00	No.	29.49	3479.82	3479.82
173	3.4 d:clamping the Cu pipe up to 12mm	100.00	No.	4.36	514.48	514.48
174	3.3 e:Brass fitting	100.00	No.	119.13	14057.34	14057.34
175	3.3 f :GI threaded fitting 1/2"	100.00	No.	25.05	2955.90	2955.90
176	3.3 g:GI threaded fitting 3/4"	100.00	No.	41.24	4866.32	4866.32
177	3.3 h:GI threaded fitting 1"	100.00	No.	69.08	8151.44	8151.44
178	3.3 i: GI forged fitting 1/2"	100.00	No.	58.79	6937.22	6937.22
179	3.3 j: GI forged fitting 3/4"	100.00	No.	84.00	9912.00	9912.00
180	3.3 k:GI forged fitting 1", 1.5" & 2"	100.00	No.	344.67	40671.06	40671.06
181	3.3 l:Cu fitting up to 12mm	100.00	No.	35.21	4154.78	4154.78
182	3.3 m:Transition fitting up to 1"	100.00	No.	327.61	38657.98	38657.98
183	3.4) Additional drilling of Holes of sizes 1/2" to 2"					
184	Additional drilling of Holes of sizes 1/2" to 2" as per the requirement and instructions of EIC	100.00	No.	42.88	5059.84	5059.84