SUMMARY OF SCHEDULE OF RATES MDPE/GI / PNG WORKS IN EAST & WEST GODAVARI DISTRICTS OF ANDHRA PRADESH Tender No. GGPL/KKD/C&P/SR 2574/2019-20/09

			Bidder's Name:						
Sl.No	Description	Total Estimated Cost (inclusive		Quoted Variatio	n				
		of all applicable taxes & duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST) in Rupees	"INCREASE" OR "DECREASE" (Refer note no 1 below)	Percentage In Figures	Percentage In Words				
(1)	(2)	(3)	(4 a)	(4 b)	(4 c)				
1	LMC works for CGD in East & West Godavari Distrcts of Andhra Pradesh	2,65,53,035							
2	Note: Bidder's total price	to be arrived by applying quoted	%age increase/ decrease o	n total estimated cost given at col. No. 3 above.					
3	Applicable GST (CGST&SG	ST/UTGST or IGST) rate on Total p	price (in %)						
4	Service Accounting Codes	(SAC) as per GST act [To be filled	l by bidder]						

Notes:

1	Under Column '4a', the bidder has to indicate clearly either "INCREASE" or "DECREASE" as applicable. In case the column is left blank, it will be consdered as "DECREASE" in terms of percentage.
2	In case of discrepency between percentage in figures & words, percentage in words will prevail.
3	GST on Free Issue Materials, if applicable, shall be reimbursed at actual.

CITY GAS DISTRIBUTION PROJECT IN EAST & WEST GODAVARI DISTRICTS OF ANDHRA PRADESH

LAYING OF UNDERGROUND PE PIPELINES & PROVIDING DOMESTIC PNG CONNECTIVITIES IN EAST & WEST GODAVARI GEOGRAPHICAL AREAS

TENDER NO. :GGPL/KKD/C&P/SR 2574/2019-20/09

Schedule of Rates (SOR)

Item No.	Activity	Unit	Unit Rate all (inclusive except GST) in Rs.	Total amount (all inclusive except GST) in Rs.
1	MDPE PIPE LAYING Laying of MDPE Pipeline of PE100 grade with SDR 11 having the following sizes by trenching in all kinds of soil, asphalt roads, concrete pavements/roads, all kind of pathways etc in East & West Godavari Districts of Andhra Pradesh. The trenching can be made by using mechanical excavator /Moling machine/HDD or manually depending upon the site condition. The depth of trench should meet to ensure minimum 1000 mm cover from top of the pipeline to natural ground level at that location. The following are in the scope of this item:			
a)	Loading, Shifting, Unloading of MDPE pipes issued by GGPL as free issue material from GGPL designated storeyard anywhere in the GA's of East Godavari & West Godavari DIstricts limit and stacking as per requirement at working site/Bidder's stock yard.			-
b)	Trenching of the required width and depth in all kind of the surface.]
c)	Uncoiling, stringing, laying and alignment of the MDPE pipes of the required sizes in trench.			1
d)	Jointing of the pipes by using Electro-Fusion techniques by qualified personnel with proper tools,kit, DG Set and tackles.			
e)	Supply and fixing all kind of fittings/accessories such as PE Bends,Couplers,end caps, Tee,Reducer, PE to GI Transition fittings, Saddle Tapping of all sizes i.e 125 x 90mm, 125 x 63 mm, 125 x 32 mm, 125 x 20 mm, 90 x 63 mm, 90x 32 mm, 90x 20 mm, 63x 32 mm, 63x 20, 32 x 20 mm and tee tapping of sizes 125 mm, 90 mm, 63 mm, 32mm, 20 mm as required on new PE pipeline, charged / uncharged existing pipeline network, supplying & laying of Non-traceble Warning Mat and any other fittings required to make compelete pipeline work. Laying of Non-Traceble warning mat may not be possible/considered where other techniques like moling, HDD are used			
f)	Item also includes dewatering from the trench before/after laying of the pipes if required without creating any problems to the surrounding areas.			
g)	Preparation of the route and connectivity drgs for individual house layout or society etc for approval before execution of the work			-
h)	During the execution of the work, construction area need to be barricaded and warning boards are to be displayed to ensure proper safety. Proper hard barricades / tapes/ reflectors as required to be installed at site as per Instruction of EIC/ site Engineer/ authorities.			
i)	The above item also include liasioning with state authorities / owners : In principle permission for laying of the pipeline from the concerned land owning authority (i.e. Municipal Corporations, Panchayati Raj, R&B etc) or the concerned RWA/society shall be obtained by GGPL. However all the liasioning during the pipeline laying execution with any authorities, local officials, traffic police, police, BSNL etc. and any other utility companies / agencies such OFC operators etc are in the scope of the contractor. The scope also inlcudes liasioning with RWA /Society / individual land owners for smooth execution of pipeline laying. Repairing/replacement of all damaged utilities if any, and payment of any compensation (if claimed by owner/other utility agencies) is in scope of the contractor.			
j)	After laying of Pipeline, back filling with available soft soil upto depth of minimum 300mm, placing brick(Supply & Laying of Brick will be paid separately), further back filling of soft soil, placing warning mat of 0.5 mm thk and 250 mm wide (as per attcahed specifications) maximum at a depth of 400mm from Ground Level, as per given drg or as per instruction of GGPL/Consultant, dressing the backfilled and compacted soil and backfilling & compaction of remaining trench depth with available soil.Removal of any excess soil is also in the scope.Providing/restoration of PCC layer incase of damageof the same infront of house/space between road and house shall also be in the scope of the contractor.			

k)	Once pipeline laying is completed, flushing and pneumatic testing at 6 Kg/cm2 for 24 hours is required to be carried out as per the details specification. After testing Nitrogen pressure holding at 2 kg/cm2 in case of preservation & purging is required to be done for complete pipe length as per the specification.		
I)	Carrying out all works required to make the PE pipeline ready for commissioning / Gas-In as per specification. Making connection with the existing MDPE pipeline of sizes ranging from 125 mm NB to 32 mm NB laid by others at one end and joining TF at other end. Supply of TF as per specification & approved procedure, providing tools & tackles, instruments, manpower and other accessories as per instructions of Engineer - In -Charge. is in the scope.		
m)	Final clean-up of construction area used for laying of pipeline works including disposal of debris and surplus material to designated disposal areas. (which is to be identified by the contractor)		
n)	Reconciliation of materials, handing over the completed Pipeline Network to GGPL for their operation and submisssion of As-built Drgs and other related documents as per contract.		
o)	Core cutting in basement walls , supplying and grouting of GI sleeves for PE pipe laying and repair of the core cutting hole		
	For Service Connection: Laying of MDPE Pipeline of sizes 20 mm & 32 mm by trenching in all kinds of soil, asphalt roads, concrete pavements/roads, all kind of pathways etc for MDPE pipeline connectivity between GI and MDPE piping. The following works are additionally included in the scope of this item:		
p)	Excavation and Making of two no of pits of required size and depth up to 1.5m (excavation for depth beyond 1.5m shall be paid extra over and above this item through separate SOR item no.3.0) in all kinds of soil, asphalt roads, concrete pavements, concrete and tiled floors, all kind of pathways etc for making connection with the existing MDPE pipeline of sizes ranging from 125 mm NB to 20 mm NB laid by others at one end and joining TF at other end.		
q)	Trenching of the required width and depth in all kind of the surface and laying of PE pipes of sizes 20 mm & 32mm from saddle /tee connectivity at one end for connecting with the existing PE network and TF for GI pipe connectivity at the other end including crossing of MDPE pipes below the drains as required depending on the drain depth but not less than 1000 mm cover.Supply of TF is in the scope. Backfilling as per specification is to be done.Providing/restoration of PCC layer incase of damageof the same infront of house/space between road and house shall also be in the scope of the contractor.		
r)	Alternatively, as per site conditions, if drain crossing from below the drain is not feasible then through drain cossing can be carried out by supplying and provding GI sleeve (40 mm GI sleeve for 20 mm PE pipe and 50 mm GI sleeve for 32 mm PE Pipe) across the drain. Drain dismantling /groove cutting for laying the pipe across the drain including grouting of the GI Sleeve is in the scope of this item.		
s)	Flushing and Pneumatic testing at 6 Kg/cm2 or more up to 10 kg/cm2 (as asked by GGPL/MECON) for four hours for service lines from Saddle tap off to Transition Fittings (TF) or from TF to PE pipe to tee joint excluding Tee as the case may be (In case of Tee, tee weld joints shall be golden joints)		
t)	Supply and installation of 2.5 inch dia x 150 mm length GI PIPE (Medium Class) for 20 NB MDPE pipe as TF Gaurd or 4 inch x 150 mm length GI PIPE (Medium Class) for 32 NB MDPE pipe as TF Gaurd, 1 50 mm above ground level and 150 mm below ground level, filling annular space inside the TF guard with sand and filling sand extenally for the excavated width and depth all around the TF upto the PE pipe bend. Supply of sand is included in this item. Pedestal (1ft x 1ft x 1ft) to be constructed with PCC M15 (1:2:4) to ensure support of TF Guard.		
u)	Restoration of the pits and all kind of surfaces (concrete/asphalted/tiled) to the original condition in case of service connections within the customer premises and obtaining NOCs from concerned owner/authority/agency. NOCs shall be submitted along with the RA bill		
1.1	Laying of PE pipelines by mechanical excavator /Moling machine/HDD or mannually depending upon the site condition		

				-	
a)	20 mm PE 100 pipe (including Service Connection)	Meters	12000	677.6	81,31,200.00
b)	32 mm PE 100 pipe	Meters	8667	484	41,94,666.67
c)	63 mm PE 100 pipe	Meters	4000	580.8	23,23,200.00
d)	90/125 mm PE 100 pipe	Meters	4000	629.2	25,16,800.00
1.20	Same as item 1.10 above but by trenching by open cut only in all types of rocks using mechanical means such as rock breakers / excavators (blasting prohibited) etc. Scope also includes disposal of rocky earth and providing soft soil / sand for bedding and all around PE pipeine of minimum 150 mm thickness. The supply of the soft soil / sand is also in scope of this particular item.				
a)	20 mm / 32 mm PE 100 pipe	Meters	25	677.6	16,940.00
b)	63 mm PE 100 pipe	Meters	25	677.6	16,940.00
c)	90/125 mm PE 100 pipe	Meters	25	774.4	19,360.00
2	Same as 1.0 except wherein pipe cover is less than 600 mm (in case of tough restrictions) which may occur in building complexes/ Housing Socities having concretes flooring/ pavements/pathways, where it is not feasible for laying of PE pipe with a cover more than 600mm (in case pipe cover is between 600 mm to 1000mm PCC works and less than 600 mm based on the site condition & with the approval of EIC, GI Sleeve & PCC to be provided) Dismantling and breaking of the concrete surface/tiled surface to the extent feasible and Laying of PE pipe with GI sleeve with concrete encasing all around for the trench width upto the existing surface level. Supply of GI sleeve and Carrying out Plain				
	Cement Concrete encasing (1:2:4) shall be paid separately by SOR item No. 8 and 9 respectively				
a)	20 mm PE 100 pipe with 2" inch GI sleeve	Meters	10	871.2	8,712.00
b)	32 mm PE 100 pipe with 2" inch GI sleeve	Meters	50	1064.8	53,240.00
c)	63 mm PE 100 pipe with 4" inch GI sleeve	Meters	50	1258.4	62,920.00
d)	90/125 mm PE 100 with 6" GI sleeve	Meters	10	1452	14,520.00
3	Excavation of pit beyond 1.5 m and upto 3 m depth for carrying out item 1.1 for making connectivity	Cum	25	677.6	16,940.00
4	Restoration of asphalted roads / concrete roads /pavements / foot paths of other land owning agencies				

a)	Asphalt road: Restoration of bitumen Asphalt road after laying of MDPE pipe line as per the drawing, specifications and instruction of Engineer-In-Charge. Restoration of roads shall be done to fullest satisfaction of Land owning Agencies / RWA / Society etc. and to get NOC, if applicable, from the concerned authorities.	Meters	50	871.2	43,560.00
b)	Tiles/pavers/granite/red stone etc: Restroration of the all kind of pathway by using excavated material such as tiles/pavers/granite/red stone etc by providing PCC 1:4:8 of 50mm thickness below after compaction of the filled soil, fixing the Tiles/Paver/Granite etc and matching it to the existing surface. Item includes providing of extra finished material if required.such as Tiles/Paver/Granite etc matching to original pathways. The area restored shall be measured in Sqm.	Sqm	5	871.2	4,356.00
c)	Reinforced Concrete road/ Reinforced Concrete pavement: Restroration of reinforced concrete road and pavements shall be done by providing PCC 1:4:8 of 75 mm thick and RCC 1:2:4 of 100 mm thickness and providing 8 mm dia rod at 200 mm C/C. The cost of Shuttering, compacting the base surface etc are in the scope of this item. The area restored shall be measured in Sqm.	Sqm	5	1452	7,260.00
5	Supply and installation of PE Isolation Valves				
	Supply of isolation valves (as per data sheet) and installtion of valves in the valve pits as per typical drawing and specification enclosed and instructions of Engineer-in-charge. Payment of valve pits shall be made separately.				
a)	PE Valve, 20 mm / 32 mm dia	Nos.	4.00	19360	77,440.00
b)	PE Valve, 63 mm dia	Nos.	3.00	21296	63,888.00
c)	PE Valve, 90/125 mm dia	Nos.	3.00	24200	72,600.00
6	Construction of Valve pits				
	Construction of Value Pits with CC blocks of Grade M 7.5 as per approved drawing no. and specification. The item includes supply of all the material including Heavy duty Pre-cast RCC cover, shuttering,reinforcement,labour,curing etc as per the drgs specification and instruction of EIC. (Internal size of Minimum 600x600mm)	Nos.	10.0	14520	1,45,200.00
7	Warning Plate Markers				
a)	Supply, fabrication and installation of WARNING PLATE as per the approved drg and specification. Item includes application of approved quality of primer and paint, lettering with stencil and fixing on walls / any other suport using Dowel pins etc.	Nos.	250	290.4	72,600.00
8	Supply of GI sleeve of medium grade as per IS 1239 /IS 3589 (wherever required as a special case as per instruction of the Engineer-In-Charge)				
a)	GI Sleeve - 2" NB	Meters	25	387.2	9,680.00
b)	GI Sleeve - 4" NB	Meters	15	580.8	8,712.00
c)	GI Sleeve -6" NB	Meters	5	822.8	4,114.00
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Image: constraint of the set sting GI piping network of various size from 1/2" to 1.5" NB having riser, headers as well as laterals. Item include checking of the network by air pressure, repair if any leakage observed and to make network ready for GAS-IN by providing manpower tools & tackles,gasket, Meters Image: constraint of the set sting GI piping network of various size from 1/2" to 1.5" NB having riser, headers as well as laterals. Item include checking of the network by air pressure, repair if any leakage observed and to make network ready for GAS-IN by providing Image: constraint of the set sting GI piping network of various size from 1/2" to 1.5" NB having riser, headers as well as laterals. Item include checking of the network by air pressure, repair if any leakage observed and to make network ready for GAS-IN by providing Image: constraint of the network by air pressure, repair if any leakage observed and to make network ready for GAS-IN by providing Image: constraint of the network by air pressure, repair if any leakage observed and to make network ready for GAS-IN by providing Image: constraint of the network by air pressure, repair if any leakage observed and to make network ready for GAS-IN by providing Image: constraint of the network by air pressure, repair if any leakage observed and to make network ready for GAS-IN by providing Image: constraint of the network by air pressure, repair if any leakage observed and to make network providing Image: constraint of the network by air pressure, repair if any leakage observed and to make network ready for GAS-IN by providing Image: constraint of the network by air pressure, repair if any leakage observed and to make network ready for GAS-IN by providing Image: constraint of the network by air pressure, repair if any leakage observed and to make network pressure		Supplying and laying plain cement concrete with stone aggregate 20mm down grade (including shuttering if required) for encasing of PE pipe with / without GI sleeve and restoring it to the original floor/pavements/pathways.	Cum	5	5324	26,620.00
Image: Note of the state of	10	includes cost of transporation, loading & unloading, Custody and labour for placing the bricks in trenches . Note: 1. For 20/32mm (115 mm side) wherever required as per direction of EIC considering the site condition 2. For 63 mm all along the pipe (115 mm side)	sqm	2377	338.8	8,05,214.67
Image: Note of the state of	44					
Supply & Installation of Heavy duty GI pipes (as per IS1239) of approved make alongwith all required fittings such as sockets, elbow, tee, reducer, bend, union, GI plug, endcape cf. dived vertically as well as horizontally for providing PNG connection to house hold in various type of Buildings including Highrise buildings following optimum piping route. In case GI Piping increases more than the 10 mrt length for one connection approval of GGPL is compulsory before execution. All pipe and fittings shall have coating with 60 micron synthetic paint of approved column and shade. Alternatively, pipes and fittings to be applied with two coat of synthetic enamel paint of approved or and shade. Alternatively, pipes and fittings of the complete installation, making required arrangement for fixing of the pipes such as socifolding, rope ladder etc, supply and fixing of approved clamp, screw (SS screw of approved make), dowel plug, steel supports with rods, fastners etc. If required, making holes by core cutting etc. a 1/2 " NB Meters 6067 435.6 26,42,640.00 b 3/4 " NB Meters 50 484 24,200.00 c 1" NB Meters 10 677.6 6,776.00 11.2 Commissioning of existing GI Piping for PNG Connection 10 677.6 6,776.00 11.2 Commissioning of the existing GI piping network of various size from 1/2" to 1.5" NB having riser, headers as well as laterals. Item include checking of the existing GI piping network of various size from 1/2" to 1.5" NB having riser, headers as well as laterals. Item include checking of the network by air pressure, repairi if an	11	PNG Connection to Domestic, Commercials and Industrial Consumers				
Image: bit is a stand of the set sting GI piping network of various size from 1/2" to 1.5" NB having riser, headers as well as laterals. Item include checking of the network by air pressure, repair if any leakage observed and to make network ready for GAS-IN by providing wanpower tools & tackles,gasket,Meters66674435.6265(42,640.00)Meters1048424,200.0014,200.0014,200.0014,200.0014,200.00Meters11/2 "NBMeters10677.66,776.0011.2Commissioning of existing GI Piping network of various size from 1/2" to 1.5" NB having riser, headers as well as laterals. Item include checking of the network by air pressure, repair if any leakage observed and to make network ready for GAS-IN by providing wanpower tools & tackles,gasket,A14.5246,173.60	11.1	Supply & installation of Heavy duty GI pipes (as per IS:1239) of approved make alongwith all required fittings such as sockets, elbow, tee, reducer, bend, union, GI plug, endcap etc, fixed vertically as well as horizontally for providing PNG connection to house hold in various type of Buildings including Highrise buildings following optimum piping route . In case GI Piping increases more than the 10 mtr length for one connection approval of GGPL is compulsory before execution. All pipe and fittings shall have coating with 60 micron synthetic paint of approved colour and shade. Alternatively, pipes and fittings to be applied with two coat of synthetic enamel paint of approved make and colour. The application of paint shall be before fixing the pipe to wall. Item includes pneumatic testing of the assembled section as per the specification and standard procedure of testing of the complete installation, making required arrangement for fixing of the pipes such as scaffolding, rope ladder etc, supply and fixing of approved clamp, screw (SS screw of				
Image: Constraint of the existing GI piping network of various size from 1/2" to 1.5" NB having riser, headers as well as laterals. Item include checking of the network by air pressure, repair if any leakage observed and to make network ready for GAS-IN by providing MtrsS048424,200.00MetersS0S0.814,520.0014,520.0014,520.0014,520.00Meters10677.66,776.006,776.006,776.0011.2Commissioning of existing GI piping network of various size from 1/2" to 1.5" NB having riser, headers as well as laterals. Item include checking of the network by air pressure, repair if any leakage observed and to make network ready for GAS-IN by providing MtrsMtrs318014.5246,173.60	а	1/2 " NB	Meters	6067	435.6	26,42,640.00
Image: Models 2.5 580.8 14,520.00 d 11/2 "NB Meters 10 677.6 6,776.00 11.2 Commissioning of existing GI Piping for PNG Connection Image: Commissioning of the existing GI piping network of various size from 1/2" to 1.5" NB having riser, headers as well as laterals. Item include checking of the network by air pressure, repair if any leakage observed and to make network ready for GAS-IN by providing manpower tools & tackles,gasket, Attract and the mathematical strends of the network by air pressure, repair if any leakage observed and to make network ready for GAS-IN by providing manpower tools & tackles,gasket, Attract and the mathematical strends of the network by air pressure, repair if any leakage observed and to make network ready for GAS-IN by providing manpower tools & tackles,gasket, Attract and the mathematical strends of the network by air pressure, repair if any leakage observed and to make network ready for GAS-IN by providing manpower tools & tackles,gasket, Attract and the mathematical strends of the network by air pressure, repair if any leakage observed and to make network ready for GAS-IN by providing manpower tools & tackles,gasket, Attract and the mathematical strends of the network by air pressure, repair if any leakage observed and to make network ready for GAS-IN by providing the network of the network by air pressure, repair if any leakage observed and to make network ready for GAS-IN by providing the network of the network by air pressure, repair if any leakage observed and to make network ready for GAS-IN by providing the network of the net	b	3/4 " NB	Meters	50	484	24,200.00
Image: Note: The second sec	С	1 " NB	Meters	25	580.8	14,520.00
Commissioning of the existing GI piping network of various size from 1/2" to 1.5" NB having riser, headers as well as laterals. Item include checking of the network by air pressure, repair if any leakage observed and to make network ready for GAS-IN by providing manpower tools & tackles,gasket, Mtrs 3180 14.52 46,173.60	d	1 1/2 " NB	Meters	10	677.6	6,776.00
include checking of the network by air pressure, repair if any leakage observed and to make network ready for GAS-IN by providing manpower tools & tackles,gasket, Mtrs 3180 14.52 46,173.60	11.2	Commissioning of existing GI Piping for PNG Connection				
11.3 Conversion of Domestic Appliance		include checking of the network by air pressure, repair if any leakage observed and to make network ready for GAS-IN by providing	Mtrs	3180	14.52	46,173.60
	11.3	Conversion of Domestic Appliance				

	Cleaning and performing minor maintenance, greasing etc. of appliance, testing/showing performance to the customer, signing of meter job cards (mjc) and instructing customer on use & safety norms, complete as per specifications & to satisfaction of Engineer In- charge				
a)	Supply & changing of nozzles/jets associated knob controls and suraksha tube minimum one mtr for domestic & imported appliances with proper tools & tackels.Conversion of all types of LPG kitchen appliances to NG based appliances. (per burner)	Nos.	500	82	41,000.00
12	Providing PNG connections				
12.1	Copper Pipe (Size- 12 mm OD X0.6 mm wall thk.) inside the Kitchen/indoor : Supply, installation, testing and commissioning of Copper pipe of approved make at all floors as per approved plan from outlet of Meter to Appliance valve including all brass fitting, plastic clamps (closed type) etc complete as per technical specification. Proper bending tools shall be used for bending of the pipe as per site requirement. This item shall be executed only where ever GI pipe laying is not possible and with the approval of MECON/GGPL.	RM	500	193.6	96,800.00
12.2	Fixing of DOMESTIC METER at all floors with supply & fixing of associated inlet and outlet connections/ fittings, brackets, fasteners and other supports with grouting as required, by using proper scaffolding. DOMESTIC METER is a free issue material. The brass fittings shall be used for connecting meter outlet. Inlet of Meter be GI piping instead of Anaconda Hose. In case of installing Anconda Hose at the inlet of meter, approval from GGPL is compulsory.	Nos.	2000	822.8	16,45,600.00
12.3	REGULATORS : Installation of all type of regulators at all floors of various capacity 2.5 to 6.5 SCMH with supply & Fixing of associated inlet and outlet connections/ fittings, brackets and other supports with grouting as required, by using proper scaffolding. Restoring the area to original complete as per specification. REGULATOR & ADAPTOR is a free issue material.				
a)	Meter regulators - 100 mbar to 21 mbar (Supply of regulator and Adopter is free issue Material)	Nos.	400	96.8	38,720.00
b)	Domestic regulators - Pressure 4 bar to 21 mbar (Only supply of Regulator is free issue Material)	Nos.	1600	145.2	2,32,320.00
12.4	<u>COMMERCIAL METER</u> : Installation & fixing of commercial meters alongwith box such as G6,G16 and G25 etc with associated inlet and outlet connection fittings, meter brackets(if required), pipe supports etc, by using proper scaffolding. Restoring the area to original completre as per specification. COMMERCIAL METER alongwith box is a free issue material.	Nos.	50	2200	1,10,000.00
12.5	Installation of Commercial/Service Regulator : Installation & Fixing of commercial /services regulators of various capacity with associated inlet and outlet connection fittings with required supports. Restoring the area to original completre as per specification. SERVICE REGULATOR & COMMERCIAL REGULATOR is a free issue material.				
a)	Service Regulator (0.5 - 6 bar to 100 mbar) - 10 SCMH to 65 SCMH capacity	Nos.	50	580.8	29,040.00
b)	Commercial Regulator (0.5 - 6 bar to 300/ 500 mbar) -10 SCMH to 65 SCMH capacity	Nos.	50	528	26,400.00

13	Supply and installation of Isolation Valves of approved make as per the technical specification given in tender document and as directed by EIC: In the installations for kitchens/laterals, wherein immediate usage of gas is not intended, the handle of isolation valves shall be sealed by placing a wire or plastic strip through the holes of the handle and wrapping it around the valve and then crimping with plastic sealhead. Incase of individual house connection, to install additional valve at inlet of Gas meter, approval shall be taken from MECON/GGPL.				
a)	Isolation Ball Valve				
i)	Isolation Ball Valve 1/2 " max. 6 bar (g)	Nos	4000	183.92	7,35,680.00
ii)	Isolation Ball Valve 3/4 " max. 6 bar (g)	Nos.	50	484	24,200.00
iii)	Isolation Ball Valve 1 " max. 6 bar (g)	Nos	5	655.6	3,278.00
iv)	Isolation Ball Valve 1 1/2 " max. 6 bar (g)	Nos	1	1151.7	1,151.70
b)	Supply and installation of Appliance Valves of approved make as per the technical specification given in tender document and as directed by EIC: In kitchens, wherein immediate usage of gas is not intended, the appliance valves shall be sealed by placing a plastic cap at its outlet and seal it by wrapping a plastic strip around the valve and then crimping with plastic sealhead.				
	Appliance Ball Valve 1/2 " max. 100 milli Bar (g)	Nos.	2000	135.52	2,71,040.00
14	Service Regulator Boxes : Supply including and installation of Service Regulators Boxes as per drawing and as per directions of EIC, along with supports, fixtures etc. with proper grouting using proper scaffolding.	Nos	25.0	14520	3,63,000.00
	Descriding DNO segmentions to New Overteness from Handed Over Duildings (Asserteness)				
15	Providing PNG connections to New Customers from Handed-Over Buildings/ApartmentsExtra for doing PNG connection from the existing GI infrastructure in already handed over buildings by newly mobilising materials, manpower, hanging scaffolding including petzel, ropes, hooks, harness etc.All the items used for PNG connection such as GI piping, isolation valve,copper tubing, fixing Meter/Regulator and appliance valve shall be paid as per respective items of SOR. This rate is payable only for those PNG connections which are coming after 30 days of buildings are handed over after compeletion of all work. Payment will be made against no. of PNG domestic connection. The decision of the EIC shall be final.	Nos.	5	968	4,840.00
16	Change of Reticulated LPG system to PNG system				
16.1	Conversion of existing LPG retriculated system to PNG system by the follwing steps:				
	Studying the existing LPG system (Under use/Not in use) and preparing the complete plan to convert it into PNG system with minimum disturbance to end users. This needs to be done in consultation with RWA/Society representataive and need to be get approved from MECON/GGPL.				
1)	Modification in the existing LPG system to convert into PNG system as per the approved plan, by replacing existing MS/GI pipe,fittings, valve etc (if required) through welding/ threading alongwith required fixture, fittings,clamping etc and testing of the entire PNG system (GI/MS) upto Isolation valve of the houses as per the testing procedure and commissioning. The scope also includes replacement of (If required) existing LPG Service Regulators with PNG Service Regulators(SR). PNG Service Regulator shall be free issue material. The payment under this item shall be made based on no. of total houses/flats for which infrastructure is ready for PNG in the particular apartment/society/building. GI piping and isolation valve shall be paid separetly.	Nos.	5	1936	9,680.00

2)	Replacement of the LPG Meter, any connected regulator (if required), providing regulator with PNG meter (as required), connection between Isolation valve and PNG meter, Meter outlet to Appliance valve by providing GI / copper tubing (if required) all complete upto	Nos.	5	290.4	1,452.00
47	appliance Valve. (GI piping,copper tubing and appliance valve shall be paid separetly.				
17	Marketing	N		222	c co ooo oo
	The activity includes collecton of PNG-Domestic registrations and submisson to GGPL as per the marketing schemes of GGPL. Shall be payable in case of paid connections, not payable for free connections	Nos.	2000	330	6,60,000.00
18	Fabrication & installatoin of Markers				
i	RCC route markers				
	Supply, fabrication and installation of RCC route markers as per the approved drawing and specifications , along the route including transportations of markers. Item also includes excavation of pit in all type of soil, convrete grouting of marker and removing of debris from site all complete	Nos.	600	783.75	4,70,250.00
ii)	Pole markers with foundation				
	Supply, fabrication and installation of pole markers as per the approved drawing and specifications, including all associated civil works such as excavation and construction in all types of soils grouting with concrete, cleaning, stencil lettering. transportations of markers. Item also includes grouting with 1:2:4 concrete, painting, letter writing with stencil letter as per approved drawing in all completeness	Nos.	50	6751.8	3,37,590.00