

SCHEDULE OF RATES

DOC. NO. - MAT-F-11
REV. NO. - 0
EFFECTIVE DATE - 29-01-2018

TENDER:- PE LAYING & DOMESTIC / COMMERCIAL/INDUSTRIAL PNG INSTALLATIONS FOR PROJECT WORKS

DURATION:- 1 YEARS (KUTCHH)

SAP CODE	Item No.	Item Description	Unit	Qty	Base Rate	Total Value
	PART - A	PE LAYING				
		FOR DETAILED SCOPE OF WORK REFER TENDER DOCUMENT FOR PE LAYING & DOMESTIC / COMMERCIAL/INDUSTRIAL PNG INSTALLATIONS				
	1	Pipe line laying in all types of terrain (Rates for Rock/RCC breaking shall be paid extra as per item no. 6/11)				
		Receiving, handling, loading, transportation and unloading including owner supplied PE pipes from owner's nearby stock yards as well as contractor supplied materials like PE-100 Electro fusion Fittings , Warning Mats, Casing Pipes if any , Supply & installation of Route / Line Marker etc. after verification by OWNER engaged TPA at contractor store which is required to complete the work, to Contractor's own stock-yards/ work-sites. Proper storing, stacking, identification, providing security, and insurance cover for the materials. Liaisoning with Land owning agencies / statutory authorities, making trial pits to determine the underground utilities / services etc., obtaining permission from Land owning agencies /statutory authorities, temporary restoration of the abandoned trial pits as required (excavation to depth as per specification) to original condition. barricading the work area as per the procedures & drawings provided in the tender and as per the directions of EIC / site-incharge. Trenching to the required depth in all types of terrain, uncoiling / stringing of pipes, damping, jointing of the pipe ends/ fittings/ valves by qualified personnel, using bar coded electro fusion techniques as per specification.				
		Construction, Installation, testing & commissioning of 5 Bar Medium Pressure / 110 mBar low pressure PE 100 pipes including installation of Valve chamber and Service Regulator as per specification and approved procedures.				
		Lowering the PE pipe line in trench, supply & padding around pipeline with fine sand without any sharp edge metal/stone, supply and laying of PE warning mat over the pipeline along the complete route, and backfilling with available excavated material, if suitable, after screening or supply of suitable sand/ soil as per directions of EIC/ Site-In charge. Roads, pavements, footpaths etc. shall be made motorable wherever pipeline is laid. Cleaning the area of all unserviceable materials, debris, excess earth near trenches to the designated disposal area , instructions of land owners/ EIC and to the complete satisfaction of local authorities and waste management as mentioned in Tender document.				
		Excavation, breaking through any obstructions, insertion of pipe, sealing the annulus, firm fixing of the sleeves with concrete mix, preparation of pedestal & restoration of excavated pits with in the size of pedestal as defined in technical specification and instruction of EIC.				
		Temporary restoration of surface like Asphalted/Bituminous Road, Concrete Pavement,etc. as per requirement. Scrapping, Water compaction,Submission of the restoration reports, obtaining no objection certificates from the concern local authorities / land owners / third party inspection agencies designated by land owning agencies and Owner. Permanent restoration by doing Asphaltting, concreting etc. is not covered in the scope of this work.				
		Preparation, Certification and submission of (DPR) daily progress reports, various activities report in standard format, As-built drawings, crossings details, utility graphs and deviation statements. Restore all surrounding ground features as directed by EIC. Providing all tools and tackles including non-sparking tools as applicable, testing assembly, nitrogen, instruments, manpower and other related accessories and as per the instructions of the EIC. Returning of all unused free issue materials to Owner's designated stores during material reconciliation process. Submission of all documents as mentioned in the contract. Any other activities not mentioned as per current/modified statutory regulation 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.				
102915	1.1	32 mm OD X SDR 11 (3.0mm Thick - Min. cover 1.0 mtr.)	M	5,500	201.31	1,107,205
102916	1.2	63 mm OD X SDR 11 (5.8mm Thick - Min. cover 1.0 mtr.)	M	2,200	223.26	491,172
102917	1.3	90 mm OD X SDR 17.6 (5.2mm Thick - Min. cover 1.0 mtr.)	M	1,500	231.80	347,700
102918	1.4	125 mm OD X SDR 17.6 (7.1mm Thick - Min. cover 1.0 mtr.)	M	12,000	390.40	4,684,800
102919	1.5	160 mm OD X SDR 17.6 (7.1mm Thick - Min. cover 1.2 mtr.)	M	1	390.4	390.40

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		Note : 1. Rates for Rock/ RCC breaking (Refer SOR Sr. No. 6 & 11) will be paid extra at actual in addition to the above laying rates. 2. Rates for installation of Valve Chamber and Service regulator shall be paid extra as per SOR Item no.: 8 & 9 respectively. 3. Rates for excavation for PE laying beyond 1.5mtr. depth shall be paid extra as per SOR item no. 7				
	2	Pipeline laying using Manual Boring Technique				
		Survey of the under ground utilities, obtaining work permit from EIC and execution of boring with using PTFE Coated boring tool as per the specification, including excavation of the pits, boring with hole size not exceeding 30% of the pipe dia. Jointing and insertion of the carrier pipe without casing and subsequent backfilling, compaction, submission of as built drawings as per attached specification and the instruction of EIC / Site Engineer of Owner.				
102920/ 102921	2.1	For Pipe dia. 32 mm OD and 63 mm OD	M	2,300	732.00	1,683,600
102922/ 102923	2.2	For Pipe dia. 90 mm OD and 125 mm OD	M	700	732.00	512,400
102924	2.3	For Pipe dia. 160 mm OD	M	1	732.00	732
	3	Pipeline laying using Horizontal Directional Drilling Technique in Normal Soil				
		Survey of the under ground utilities, submission of profile for approval, pre-testing of pipe, execution of the work as per the standard practice including excavation of the pits, Jointing and insertion of the carrier pipe, subsequent backfilling, compaction, submission of as built graphs as per specification and the instruction of EIC / Site Engineer of Owner.				
102925 / 102926	3.1	For Pipe dia. 32 mm OD and 63 mm OD	M	1	884.51	885
102927 / 102928	3.2	For Pipe dia. 90 mm OD and 125 mm OD	M	400	884.51	353,804
102929	3.3	For Pipe dia. 160 mm OD	M	1	884.51	885
	4	Pipeline laying using Horizontal Directional Drilling Technique in Hard Rock Area				
		Survey of the under ground utilities, submission of profile for approval, pre-testing of pipe, execution of the work as per the standard practice including excavation of the pits, Jointing and insertion of the carrier pipe, subsequent backfilling, compaction, submission of as built graphs as per specification and the instruction of EIC / Site Engineer of Owner.				
102930 / 102931	4.1	For Pipe dia. 32 mm OD and 63 mm OD	M	1	4,953.20	4,953
102932 / 102933	4.2	For Pipe dia. 90 mm OD and 125 mm OD	M	400	4,953.20	1,981,280
102934	4.3	For Pipe dia. 160 mm OD	M	1	4,953.20	4,953
	5	AUGER BORING WITHOUT JACK				
		Installation of carrier pipe by Auger Boring without Jacking for road crossing and wherever required in all types of soils and terrain, including all associated works as per permission from Authority including utility identification, co-ordination with utility agencies and supply of all other materials, equipment, consumables, manpower, pre-testing of pipe, and backfilling and restoration of entry and exit pit as original of the facility crossed and performing all works as per drawings, specifications and instructions of Engineer-in-Charge and provisions of contract document. Restoration after completion of crossing as per direction of Statutory authority / Owner / PMC and obtaining NOC.				
	6	Excavation of Hard Rock:				
101280	6.1	If any hard rock strata / large boulders is encountered during excavation exceeding 1.0 m in any direction of the trench and removable only by chisel / pneumatic chisel / drill as per the specifications and direction of EIC & Supply of approved fine sand, free from any impurities like clay, mica and soft flaky pieces as per instructions of Engineer In Charge. The rates are payable over and above the Laying rates as per relevant SOR item.	CU. M	1,450	3,019.50	4,378,275
	7	Excavation beyond 1.5 mtr. depth for PE laying:				
907708	7.1	Excavation from 1.5 mtr. to 3.0 mtr. depth	CU. M	1	536.80	537
102339	7.2	Excavation from 3.0 mtr. and more depth	CU. M	1	805.20	805
	8	Construction, Supply & Installation of valve Chambers:				

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		Construction, supply & installation of chamber as per drawing including all civil works such as supply of materials, excavation of pit, piping supports including all PCC, RCC and Brick works for OWNER supplied PE valve and FRP frame & cover, pedestals with insert plates as required, sealing of pipe at pits, providing cover etc., finishing, clean up and restoration as per Standard drawing:				
		supply of all consumables, materials, manpower and carrying out all mechanical works of underground work including fusion welding, cleaning/ flushing, testing, dewatering, cutting of PE Pipe and bevelling (if required), tie-in of valve assembly as required.				
102945	8.1	Brick Valve chamber of Size 600 mm x 600 mm (internal) with GGL issued FRP cover for installation of PE ball valve on PE pipe network.	EA	1	10,736.00	10,736
102946	8.2	Brick Valve chamber of Size 800 mm x 800 mm (internal) with contractor supplied sleepers for installation PE ball valve on PE pipe network.	EA	1	32,940.00	32,940
103315/ 103316	8.3	Brick Valve chamber of Size 1000 mm x 1000 mm (internal) with contractor supplied sleepers for installation PE ball valve on PE pipe network.	EA	4	36,234.00	144,936
103137	8.4	Pre-Cast Valve chamber of Size 600 mm x 600 mm (internal) with GGL issued FRP cover for installation of PE ball valve on PE pipe network.	EA	15	9,394.00	140,910
	9	Installation of Service Regulator Module				
		Installation of Service Regulator Module including civil works such as construction of foundation for Service Regulator Module including supply of materials, excavation of pit, piping supports, Painting, PCC, RCC and Brick works for OWNER supplied Service Regulator Module as per Standard drawing.				
		Supply of all consumables, materials, manpower and carrying out all mechanical works for Service Regulator Module including supply and installation of electro fusion fittings, tie-in of Service Regulator module with PE network as per OWNER specification.				
102947	9.1	Installaton of B-10 Service Regulator Module	EA	1	5,490.00	5,490
102948	9.2	Installaton of B-25 Service Regulator Module	EA	1	5,490.00	5,490
102949	9.3	Installaton of B-50 Service Regulator Module	EA	3	5,490.00	16,470
102950	9.4	Installaton of B-100 Service Regulator Module	EA	1	8,540.00	8,540
102951	9.5	Installaton of B-200 Service Regulator Module	EA	2	8,540.00	17,080
103138	9.6	Instatlition of Bollard for Service Regulator Module Protection as per the instruction of EIC	EA	1	1,098.00	1,098
	11	Breaking of RCC				

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101287	11.1	If any hard strata / large of RCC is encountered which exceeding 1.0 mtr. in length in direction of the trench and removable only by chisel / pneumatic chisel / drill as per the specifications and direction of EIC & Supply of approved sand free from any impurities like clay, mica and soft flaky pieces as per instructions of Engineer In Charge. . The rates are payable over and above the Laying rates as per relevant SOR item.	M	4,000	109.80	439,200
	12	Supply & Spreading/ Filling of fine sand in Trench (Applicable only for Rocky area)				
102952	12.1	Supply of fine sand at site, spreading/bedding of 200 mm below Pipe in the trench as required and as per technical specifications & instruction of Engineer in charge. (Material other than fine sand shall not be allowed)	M	1	140.30	140
	13	PCC on Trench				
102953	13.1	Providing, Fixing, Centering, Shuttering and laying of cement concrete with concrete of nominal mix 1:2:4 by mass (1 cement: 2 coarse sand: 4 coarse stone/ aggregates/ gravels) with 20 mm down size graded crushed stone aggregates/ gravels as specified in specifications and satisfaction to the EIC. Supply of all consumables materials such as cement, sand water, aggregates etc, manpower including carrying out all civil works for PCC on Trench as required and as per technical specifications & instruction of Engineer in charge.	CU.M	100	4,758.00	475,800
	14	Brick Paving				
102954	14.1	Supply and Brick Paving on Trench above PE pipes after sand filling as per instruction of EIC.	M	1	61.00	61
	15	Industrial Metering Skid Hook Up				
103275	15.1	Industrial Hook Up fixed Connection Charge for Industrial Connection including cost of following - PE pipeline extension upto 40 Mtr. Outside Customer Premise (Any diameter), PE pipeline extension upto 20 Mtr inside Customer Premise (Any diameter), MRS/IMS Hook-up cost (Any Size), Mobilization expenses (per Customer). The Laying rates beyond 40 mtr for outside customer premise and 20 mtr inside customer premise are applicable as per the relevant SOR item.	Each	5	45,750.00	228,750
	16	Above ground DRS/CPRS Hook Up				
103317	16.1	Above ground DRS/CPRS Hook Up fixed Charge including Hook-up cost (Any Size) and Mobilization expenses	Each	1	12,200.00	12,200
102956	17	Supply and Installation of pole marker	EA	1	1,220.00	1,220
102957	18	Supply and Installation of village board marker / Valve chamber marker	EA	1	7,320.00	7,320
	19	Re-fixing of existing removed paver blocks to be re-fixed in same pattern and to be laid over bed of 50 mm river sand to align in proper line and level and joints to be filled with river sand and to do compaction by Mechanical Compactor. Gaps between pavers laid and walls, foundations, etc. to be filled with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 20mm down size). Rate shall included all tools tackles, sand supply, watering, compacting, machinery, labour etc. all complete. Actual / Net quantities measured including Gaps filled shall be paid. Available Paver blocks to be used.				
102958	19.1	Re-fixing of Paver block	SQ.M	50	2,440.00	122,000
103140	20	Retesting of PE Network including Nitrogen Purging (For same contractor rate will be applicable after 6 months from first testing date)	M	1	14.64	15
		Note : 1. Rates for Item no. 13 for PCC laying shall be applicable only after written approval from EIC. 2. Rates for Item no. 18 for Paverblock re-fixing shall be applicable with in society premise only after written approval from EIC.				
		Sub-Total In Rs. - Part-A: PE Pipeline Laying				17,224,772
	PART - B	Domestic/ Commercial / Industrial PNG Connection Installations				
		FOR DETAILED SCOPE OF WORK REFER TENDER DOCUMENT FOR PE LAYING & DOMESTIC / COMMERCIAL/INDUSTRIAL PNG INSTALLATIONS				
	21	Tapping from PE service lines and installation up to Main Isolation Valve for Individual Connection.				

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SAP CODE	Item No.	Item Description	Unit	Qty	Base Rate	Total Value
		Supply, Construction, laying / installation in all types of terrain by any method i.e. Manual Boring or Open Cut, testing & Commissioning of 20 mm PE -100 pipes, PE Electrofusion fittings, warning mats, Transition fittings (PE to GI Transition fittings), RCC Guard, Required all consumables like PTFE tape etc which is required to complete the work at site. Proper storing, stacking, identification, providing security, and insurance cover for the materials. Liasoning with customers, Landowning agencies / statutory authorities, preparation of detailed route plan, making trial pits to determine the underground utilities/ services etc., obtaining permission from Land owning agencies, restoration of the abandoned trial pits as required (excavation to depth for 1.0 m cover of PE pipe or more as satisfaction to EIC) to original condition as per the directions of EIC / site-incharge. Trenching to the required depth in surface, uncoiling / stringing of pipes, damping, jointing of the pipe ends/ fittings/ valves by qualified personnel, using approved electro fusion techniques as per specification.				
		Supply and Installation of powder coated 1/2" GI pipes up to individual Main Isolation Valve. Required all consumables like PTFE tape, roul plugs etc for leak proof installations, as per laid procedures and specification including clamping. Colour touch up to be done on installed GI pipes after testing of the entire connection.				
	22	INSTALLATION OF GI PIPES FROM MAIN ISOLATION VALVE TO APPLIANCE VALVE				
		Receiving, handling, loading, transportation and unloading including owner supplied Free issued materials like Domestic Meter, Domestic Gas Pressure Regulator, ½"NB Isolation valve and Appliance valves (Gas Tap) and Suraksha steel re-inforced Rubber hose etc which is required to complete the work to Contractor's own stock-yards/ work-sites.				
		Proper storing, stacking, identification, providing security, and insurance cover for the materials. Liasoning with Landowning agencies / statutory authorities, preparation of detailed route plan, obtaining permission restoration as required to original condition as per EIC instruction.				
		Supply and Installation of powder coated 1/2" or 1" NB GI pipes with BSPT connection up to customer's kitchen appliances, Powder coated ½" NB or 1" NB GI fittings, Inlet/outlet brass adaptor for Meter / Regulator, Clamp required for fixing of Suraksha Rubber hose, Powder coated MS Pipe Clamp with Screw and Nuts, Nozzle for Burner conversion, Required all consumables like PTFE tape, roul plugs etc for leak proof and quality installations, as per laid procedures and specification including clamping. Colour touch up to be done on installed GI pipes after testing of the entire connection. In case of builder ownership/Customer having no appliance (burner)- Hollow hex plug need to be installed after doing MMT of whole connection.				
		Pneumatic testing with nitrogen/air and commissioning of the GI installations, meters, valves etc as per specification and hand over the same to Owner/Customer to the entire satisfaction.				
		Preparation, Certification and submission of job card duly signed by customer/daily progress reports, As-built drawings. Restore all surrounding ground features to that as existing before and as directed by EIC.				
		Providing all tools and tackles, test ends, nitrogen, instruments, manpower and other related accessories and as per the instructions of the EIC. On completion of contract returning of all unused free issue materials to Owner's stores. submission of all documents as mentioned in the contract.				
		Any other activities related to completing above scope of work not mentioned / 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.				
	23	GROUND CONNECTION AND RISER INSTALLATION WITH A PROVISION OF TEE AT EACH FLOOR WITH HEX PLUG IF ANY.				

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		Supply, Construction, laying / installation in all types of terrain by any method i.e. Manual Boring or Open Cut, testing & Commissioning of 20 mm PE -100 pipes, PE Electrofusion fittings, warning mats, Transition fittings (PE to GI Transition fittings), RCC Guard, Required all consumables like PTFE tape etc which is required to complete the work at site. Proper storing, stacking, identification, providing security, and insurance cover for the materials. Liasoning with customers, Landowning agencies / statutory authorities, preparation of detailed route plan, making trial pits to determine the underground utilities/ services etc., obtaining permission from Land owning agencies, restoration of the abandoned trial pits as required (excavation to depth for 1.0 m cover of PE pipe or more as satisfaction to EIC) to original condition as per the directions of EIC / site-incharge. Trenching to the required depth in surface, uncoiling / stringing of pipes, damping, jointing of the pipe ends/ fittings/ valves by qualified personnel, using approved electro fusion techniques as per specification.				
		Supply and Installation of powder coated 1/2"/ 1" GI pipes including GI fittings, Required all consumables like PTFE tape, roul plugs etc for leak proof Riser installations, as per laid procedures and specification including clamping. Colour touch up to be done on installed GI pipes after testing of the entire Riser including Ground Connection. Also includes supply and installation of Hollow hex plug incase of no Appliance Valve installed and Installation of owner supplied Appliance Valve & Rubber Hose for main point.				
		NOTE : 1. Individual connection means PNG connection with dedicated ground connection. 2. All other tapping connections from GI are considered under apartment / flat Connections.				
		Individual Connection				
102959	21.1	Domestic Connection : GROUND CONNECTION UPTO Main Isolation Valve including 1/2" GI Pipe	EA	1,800	4,087.00	7,356,600
102960-62	22.1	1/2" NB GI pipes from Main isolation valves to appliance valve for individual connection including additional Kitchen and Geyser Point(s).	EA	1,800	2,287.51	4,117,518
103141/ 103253-54	22.2	Domestic Connection for First/ Second floor kitchen 1/2" NB GI pipes from ground floor main isolation valves to appliance valve for individual connection including additional Kitchen and Geyser point(s) (where Ground Connection is not required and tapping will be from existing individual connection. (GI Riser rate & GC rates are not applicable for such connections).	EA	50	2,287.51	114,376
	22.3	Apartment/Flat /Row House Connection				
102963-65-AP	22.3.1	Tapping from GI vertical riser tee and installation of GI pipes up to Main (Meter) Isolation valve(Lateral) and GI pipes from Main isolation valves to appliance valve including additional kitchen and Geyser point(s) for flat/apartment connection.	EA	600	2,641.31	1,584,786
102963-65-RH	22.3.2	Tapping from GI horizontal riser tee and installation of GI pipes up to Main (Meter) Isolation valve(Lateral) and GI pipes from Main isolation valves to appliance valve including additional kitchen and Geyser point(s) for Row House Connection	EA	50	1,878.80	93,940
Annexure 1						
	Sr.No	Description	GA(Length in Mtr.)			
			Kutch			
	1	For individual house- length of GI pipe (Refer to item no.21.1,22.1 and 22.2)	8			
	2	For Tapping connection from Riser (without Ground conn.)- length of Gi pipe (Refer to item no.22.3.1)-Appartment	10			
	3	For Tapping connection from Lateral (without Ground conn.)- length of Gi pipe (Refer to item no.22.3.2)-Row house	7			
	4	For Ground connection (20mm Dia.PE)-length of PE pipe (Refer to item no.21.1)-Individual house	6			

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		<p>NOTE :</p> <p>For each connections with all point(s) kitchen and Geyser Domestic connection installation GI length (From TF GI pipe joint to single kitchen point appliance valve) /PE pipe length (20mm PE pipeline length from serviceline PE fitting joint to TF PE coupler joint) is as below.</p> <p>Average usage of all points for connection of each type will be arrived based on actual kitchen and Geyser point(s) GI/PE pipe installed. Monthly reconciliation will be done for Take or Pay clause.</p> <p>As per attached Annexure</p> <p>Average GI = Total GI length for all point(s) in kitchen and Geyser of Individual houses connections / Total nos. of Individual houses connections</p> <p>Average GI = Total GI length for all point(s) in kitchen and Geyser of Apartment connections / Total nos. of Apartment connections</p> <p>Average GI = Total GI length for all point(s) in kitchen and Geyser of Row House connections / Total nos. of Row House</p> <p>Average PE = Total Length of 20 mm Pipe (Open cut + Manual boring) / Total Nos. of Ground connections</p> <p>The differential amount for actual pipe supplied & installed shall be paid / recovered as per the Formula & Rates mentioned below:</p> <p>Formula to be used for calculation of differential amount is as under.</p> <p>For individual House = ((Sum of GI pipe length of all point(s) in kitchen and Geyser of total installed connections ÷ total number of installed connections) - (Given specified average length of GI pipe for particular GA as per above)) x (Rs. 125 x total number of installed connections).</p> <p>For Tapping connections in Apartment = ((Sum of GI pipe length of all point(s) in kitchen and Geyser of total installed connections ÷ total number of installed connections) - (Given specified average length of GI pipe for particular GA as per above)) x (Rs. 125 x total number of installed connections).</p> <p>For Tapping connections in Row House = ((Sum of GI pipe length of all point(s) in kitchen and Geyser of total installed connections ÷ total number of installed connections) - (Given specified average length of GI pipe for particular GA as per above)) x (Rs. 125 x total number of installed connections).</p> <p>For Ground Connection (20mm Dia. PE only) = ((Sum of total length of installed connections / No. of total individual connection i.e. only Ground Connection) - (Given specified average length of Ground connection for particular GA as per above)) x (Rs. 150 x total number of installed individual connections i.e. Ground Connection only).</p> <p>For calculation purpose SAP data shall be considered as final.</p> <p>GGL will make extra payment in case if the average GI/PE pipe length installed by a contractor is more than specified length above or will recover the payment from the contractor if the average GI/PE pipe length installed by a contractor in less than specified length above.</p> <p>Unit rate for supply and installation of 1/2" GI pipe = Rs.125.0</p> <p>Unit rate for supply and installation of 20mm Dia. PE pipe laying (Ground Connection) through any type of method = Rs. 150.0</p>				
	23.1	GI Riser / Header installation				
103318/103319	23.1.1	Installation of 1/2" Riser up to G+3 including Ground Connection. (excluding horizontal approach)	EA	400	5,490.00	2,196,000
103320/103321	23.1.2	Installation of 1/2" Riser up to G+3 excluding Ground Connection-for basement welded riser (excluding horizontal approach)	EA	1	2,632.20	2,632
103219-20	23.1.3	Installation of 1/2" Riser beyond G+3 floor for each floor extension.(excluding horizontal approach)	EA	5	658.80	3,294
102968	23.1.4	Installation of 1/2" Header (Horizontal) up to 3 Row Houses including Ground Connection.	EA	10	6,710.00	67,100
102969	23.1.5	Installation of 1/2" Header (Horizontal) beyond 3 Row houses for each row house extension.	EA	5	1,098.00	5,490
102970	23.1.6	Installation of 1" Riser up to G+8 including Ground Connection (excluding horizontal approach)	EA	1	11,956.00	11,956
103322/103323	23.1.7	Installation of 1" Riser up to G+8 excluding Ground Connection-for basement welded riser (excluding horizontal approach)	EA	1	9,058.50	9,059
102971	23.1.8	Installation of 1" Riser beyond G+8 floor for each floor extension. (excluding horizontal approach)	EA	1	1,006.50	1,007
102972	23.1.9	Installation of 1" Header (Horizontal) up to 6 Houses including Ground Connection.	EA	10	14,005.60	140,056
102973	23.1.10	Installation of 1" Header (Horizontal) beyond 6 houses for each row house extension.	EA	1	1,671.40	1,671
		Note: In case of Riser/ Header installation through tapping from common GI approach / Basement approach, unit rate of Ground Connection as per item No.: 21.1 shall be deducted from respective item no of SOR.				
		For vertical riser, Rate 23.2.1or 23.2.2 are to be paid for horizontal approach if applicable				
	23.2	Installation of Horizontal approach for Riser connectivity				

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DURATION:- 1 YEARS (KUTCHH)

SAP CODE	Item No.	Item Description	Unit	Qty	Base Rate	Total Value
102974	23.2.1	1/2" NB GI pipe horizontal approach installation as per instruction of Engineer In charge	M	1	274.50	275
102975	23.2.2	1" NB GI horizontal approach installation as per instruction of Engineer In charge.	M	1	427.00	427
	23.3	Installation of Commercial Connection as per instruction of Engineer In charge				
102976	23.3.1	Supply and laying of 20mm PE Pipe/ Laying of 32mm PE Pipe for ground connection of Commercial Connection through Open Cut	M	100	183.00	18,300
102977	23.3.2	Supply and laying of 20mm PE Pipe/ Laying of 32mm PE Pipe for ground connection of Commercial Connection through Manual Boring	M	50	366.00	18,300
102978	23.3.3	Supply and Installation of 1/2" GI Pipe for Commercial Connection.	M	1	274.50	275
102979	23.3.4	Supply and Installation of 1" GI Pipe for Commercial Connection.	M	60	427.00	25,620
101315	23.3.5	Installation of 1/2" Ball valve (Main Isolation Valve) for Commercial Connection.	EA	1	73.20	73
101316	23.3.6	Installation of 1" Ball valve (Main Isolation Valve) for Commercial Connection.	EA	20	97.60	1,952
102980	23.3.7	Supply and Installation of 1/2" GI to PE Transition fittings for Commercial Connection	EA	1	183.00	183
102981	23.3.8	Supply and Installation of 1" GI to PE Transition fittings for Commercial Connection	EA	10	263.52	2,635
102982	23.3.9	Supply and Installation of RCC Guard for Commercial Connection	EA	10	292.80	2,928
102983	23.3.10	Supply and Installation of Meter Adaptor for Meter size G1.6, G-6, G-10, G-16, G-25 and G-40	EA	50	2,387.50	119,375
103142	24	Labor charges for Installation of owner supplied Appliance Valve & Rubber Hose including supply of Rubber Hose Clamp for additional point	EA	1	63.44	63
101326	25	Conversion of stove including Glass top type upto 4 burner for additional kitchen/forced NG cases.	EA	1	54.90	55
	PART - C	Supply & Installation of RCC Hume pipe with required all consumables, materials, manpower and carrying out all underground related to the works as instructed by EIC (e.g. lower depth, utility prone area, electric cable isolation etc.)				
102992	26	RCC Hume Pipe_ Half Round	M	200	292.80	58,560
102993	27	RCC Hume Pipe_ Full	M	100	427.00	42,700
		Sub-Total In Rs. - Part-B and C				15,997,205
		Total Basic Amount In Rs.				33,221,977