

SOR - MDPE LAYING & LMC WORK - UK GA (E & W)					
SOR ITEM	ITEM DESCRIPTION	UNIT	Qty	Unit rate inclusive of all taxes & duties but exclusive GST	Total Amount
	20 mm Dia	RM	37,500		
	32 mm Dia	RM	73,125		
	63 mm Dia	RM	28,125		
	125 mm Dia	RM	11,250		
	Total MDPE Laying	RM	1,50,000		
	Total DPNG Connections	No's	12,500		
1	MDPE pipeline laying				
	Route survey of allotted areas and Preparation /Submission of detailed route plan for approval by EIC in AutoCAD format. Receiving, handling, loading, transportation and unloading of owner supplied MDPE pipes & PE- fittings, GI Pipe 1/2 inch, Isolation valve upto size 1", Appliance valve (Gas Tape), MLC Pipe, Service regulator and other free issue items from GSL designated stock yards to Contractor's own stock-yards/ work-sites. Proper storing, stacking, identification, providing security and insurance cover for the materials. Proper storing, stacking, identification, providing security and insurance cover for the materials. Making trial pits to determine the underground utilities/ services etc., restoration of the abandoned excavation/ trial pits (excavated to depth of 1.00 m or more as per satisfaction to EIC) to original condition, barricading the work area as per the procedures & drawings provided in the tender and as per the directions of EIC / Site-in-charge; uncoiling / stringing of pipes, jointing of the pipe ends/ fittings / Transition fittings/ valves by qualified personnel, using approved electro fusion techniques as per specification.. Entire work shall be executed as per scope of work, specification, PNGRB T4S and/or any other specification as per requirement of statutory authorities.				
	Laying using any method (Open trench, Moling and HDD) with or without casing; it includes survey of the under ground utilities, submission of HDD profile for approval, execution of the work as per specification, including excavation of pits, moling with hole size not exceeding 20% of the the carrier / casing pipe dia. jointing and insertion of the carrier pipe in casing pipe (on case to case basis) and subsequent padding with soft soil, laying of warning mat in open trench only, backfilling, compaction, submission of as built drawing, as graphs as per attached specification and instruction of EIC / Site Engineer of Owner. Includes laying of pipeline in all type of surface including Kutcha, metal, concrete (PCC/RCC), bituminous, tiled, brick lined etc. after raking up of hard surface of any type; Roads, Pavement, Footpaths etc. shall be made motorable once the pipeline is laid.. Includes minimum 300 mm (150mm below the pipeline & 150 mm above the pipeline) sand bedding & padding in all kind of soil (normal/ hard/ rocky).Trench shall be filled by normal/ soft soil and no sharp rock/ boulders to be used for backfilling.				
	Supply and Installation of GI sleeves, 2.5" NB x 300 mm length pipe sleeve/ half round concrete sleeves for domestic connections, 3" NB x 300 mm length GI sleeve for commercial and industrial installations, excavation, breaking through any obstructions, insertion of pipe, sealing the annulus, fixing of the sleeves/RCC Half Round Guard with concrete mix, preparation of pedestal & restoration of excavated pits within the size of pedestal & the same pit with the laying of 20/32 mm dia MDPE pipe as defined in scope of work, technical specification and instruction of EIC/ SIC.				
	laying of 1 No's 40mm OD, 6kg/cm2 permanently lubricated HDPE ducts, in same pipeline bore direct buried or tied along with MDPE at all crossings (cased or uncased), in all type of soil & terrain, excavation as required, including cleaning and sealing of ducts at the end of laid drum lengths, jointing of HDPE conduit, supply of all type of HDPE Pipe & fitting for HDPE telecom duct laying shall be supplied by Owner, Testing of HDPE Duct and accessories after laying, preparation of report and final drawing & documents as per specification, joint location marking , erection accessories (suitable for min 8 kg/cm2 pressure rating) ,all complete as per specifications provided in the bid document & as per direction of consultant. (This duct is for future requirement for total length of pipeline as per spec. and drawing). HDPE duct is to be tied at 2 o-clock position to carrier pipe with string at regular intervals and held with Galvanized clamps or suitable material as decided by client / consultant.				
	Flushing, cleaning, pneumatic testing, purging with nitrogen and commissioning as per scope of work, specification and approved procedures providing all tools and tackles, nitrogen, instruments, manpower and other related accessories and as per instructions of the EIC/ SIC. Maintaining the completed pipelines/ installation for any defect, failures during defect liability period.				
	Handing over the completed works to owner for their operation/ use, returning of all surplus material to owner stores, reconciliation of free issue material area wise and obtaining no objection certificate.				
	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.				
	In case more than 1 MDPE pipelines are laid in a common trench, SOR rate of higher dia plus 1/3rd SOR rate of lower dia will be paid.				

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	MDPE pipes and PE fittings all dia (size 20 MM to 125 MM), GI pipe ½", MLC Pipe, Meter & Regulator, Isolation valve up to 1", service regulator, and Appliance valve (gas tap) shall be supplied by the Owner. All other materials, including GI pipes above ½" size, GI fittings of all sizes (½", ¾", 1", 1½", 2", etc.), Meter/Pipe clamps, Suraksha hose, Isolation valves above 1", Meter bracket, SR Box, manpower and all other consumables required for installation shall be in the scope of the Contractor.				
2	MDPE pipeline laying in all kind of terrain in normal soil / Gravel/ mixed starta with all type of surface by open trench methodology of laying by maintaining minimum clear cover of minimum 1.0 m from the top of lowest datum available in the vicinity of the pipeline.				
2.1	20 mm Dia	RM	11,250	394	44,36,602
2.2	32 mm Dia	RM	10,969	404	44,35,375
2.3	63 mm Dia	RM	1,406	392	5,51,123
2.4	125 mm Dia	RM	1,125	450	5,06,250
3	MDPE Pipeline laying in all kind of terrain in Hard Rock Strata with all type of surface by open trench methodology of laying by maintaining minimum clear cover of minimum 1.0 m from the top of lowest datum available in the vicinity of the pipeline.				-
3.1	20 mm Dia	RM	100	513	51,267
3.2	32 mm Dia	RM	100	526	52,567
3.3	63 mm Dia	RM	800	509	4,07,586
3.4	125 mm Dia	RM	800	585	4,68,000
4	MDPE pipeline laying in all kind of terrain in normal soil with all type of surface by moling methodology without HDPE casing pipe by maintaining minimum clear cover of minimum 1.00 m from the top of lowest datum available in the vicinity of the pipeline.				-
4.1	20 mm Dia	RM	26,250	440	1,15,50,000
4.2	32 mm Dia	RM	10,969	462	50,67,563
4.3	63 mm Dia	RM	1,406	485	6,82,172
4.4	125 mm Dia	RM	100	509	50,936
5	MDPE pipeline laying in all kind of terrain in normal soil/ Gravel / mixed startin with all type of surface by moling methodology with HDPE casing pipe by main taining minimum clear cover of minimum 1.00 Mtr from the top of datum available in the vicinity of the pipeline.				-
5.1	63 mm Dia (in 125 mm HDPE casing pipe)	RM	100	1,095	1,09,500
5.2	125 mm Dia (in 250 mm HDPE casing pipe)	RM	100	1,205	1,20,500
					-
6	MDPE pipeline laying in all kind of terrain in normal soil/ Gravel/ Mixed starta including hard rock with all type of surface by open trench methodology of laying by maintaining minimum clear cover of minimum 1.0 m from the top of lowest datum available in the vicinity of the pipeline with HDPE casing.				-
6.1	63 mm Dia (in 125 mm HDPE casing pipe)	RM	50	657	32,850
6.2	125 mm Dia (in 250 mm HDPE casing pipe)	RM	50	723	36,150
7	MDPE PIPE LINE LAYING BY HDD METHOD IN ALL TYPE OF SOIL STRATA INCLUDING HARD ROCK STRATA WITHOUT CASING AS PER INSTRUCTION OF EIC.				-
	MDPE pipeline laying by HDD method without casing pipe in all kind of terrian & soil condition including survey of the underground utilities, intimation to all other utility agencies through owner, submission of HDD profile for approval, execution of the work as per the scope of work, standard procedure, specifications & PNGRB T4S, including excavation of the pits, jointing and insertion of carrier pipe, subsequent backfilling, compaction, restoration, submission of as-built drawings/ graphs as per specification and the instructions of EIC/ SIC of owner.				-
7.1	32 mm Dia	RM	51,188	363	1,85,60,588
7.2	63 mm Dia	RM	25,313	490	1,24,03,125
7.3	125 mm Dia	RM	10,125	615	62,26,875
8	PE PIPE LINE LAYING BY HDD METHOD IN ALL TYPE OF SOIL STRATA INCLUDING HARD ROCK STRATA WITH CASING (INCLUDING SUPPLY & INSTALLATION OF HDPE CASING PIPES)				-
	MDPE pipeline laying by HDD method with casing pipe in all kind of terrian & soil condition including survey of the underground utilities, intimation to all other utility agencies through owner, submission of HDD profile for approval, execution of the work as per the scope of work, standard procedure, specifications & PNGRB T4S, including supply & installation of PE6N HDPE Casing pipe & HDPE coupler. Excavation of the pits, jointing, pulling of casing pipe & insertion of carrier pipe, subsequent backfilling, compaction, restoration, submission of as-built drawings/ graphs as per specification and the instructions of EIC/ SIC of owner.				-
8.1	63 mm Dia (in 125 mm HDPE casing pipe)	RM	100	753	75,250
8.2	125 mm Dia (in 250 mm HDPE casing pipe)	RM	1,000	908	9,07,500
9	Cutting of PCC /RCC/ Multiple layer of asphalt/ brick etc. where moling is not possible & open cut has to be done with thickness more than 12" or more than 24" continuous ashphalt multi-layer / stone (Greater than 12"X12"X12")	RM	5,625	825	46,40,625

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10	Pipeline shall be laid in the trench with depth for pipeline laying exceeding 2 Meter. Trench for the same shall be prepared by vendor with safety guidelines and by excavation machinery.				-
10.1	Trench depth 2-3 Meter	RM	100	500	50,000
10.2	Trench Depth 3-4 Meter	RM	100	625	62,500
11	LIASIONING CHARGES				-
11.1	Liasoning with land agencies for permission	RM	1,12,500	31	34,31,250
12	Restoration of trenches				-
	Restoration to original conditions surface like bituminous/ asphalted road, concrete pavement, RCC pavements, tiles/ slabs/ blocks/ curb stones/ Agra/ Kota stones (chequered/ interlocking etc.), brick lining/ channels pavement as per the scope of work, technical specifications after laying of pipeline in built-up surface, as per the directions of EIC/SIC. Scope includes providing of the approved quality material, testing of materials by third party agencies as per scope of work, technical specification/ CPWD/ IRC standards, submission of the restoration reports, obtaining no objection certificates from the concern local authorities/ statutory authorities/ land owners/ third party inspection agencies designated by land owing agencies and owner.				-
12.1	BM&BC	RM	6,668	423	28,17,336
12.2	Tiles/ Slab/ Block/ Interlocking Tiles.	RM	13,337	615	82,01,948
12.3	RESTORE, CEMENT CONCRETE	RM	13,337	719	95,88,944
13	Fabrication & installation of pipeline markers				-
	Fabrication and installation of pipeline RCC route markers/ steel pole markers/ steel plate markers as per the scope of work, specification & PNGRB T4S along the route/ boundary wall, lamp posts including all associated civil works such as excavation and construction in all types of soils, construction of pedestals and grouting with concrete, cleaning, application of approved color and quality of primer and paint, stencil letter cutting of numbers, direction, chainage etc., restoration of area to original condition and performing all works as per scope of work, specification, PNGRB T4S and instructions of EIC/ SIC.				-
13.1	RCC route markers	Nos	2,250	675	15,18,750
13.2	Steel pole markers with foundation	Nos	263	2,950	7,74,375
13.3	Installation of MS Plate Marker 300 X 250 MM	Nos	12,500	285	35,57,020
SECTION II					-
14	INSTALLATION OF POWDER COATED GI PIPE & multi-layer composite (MLC) Pipe				-
	Assessment of material requirement for installation at site, Order placement and Purchasing of Powder coated GI fittings, MLC Fittings, Isolation valve above size 1 ", Meter bucket, Pipe clamps, GI Pipe above size 1/2" to 2", SR Box , and all other consumables required for installation of PNG Domestic connection from approved vendors of GASONET, Scheduling, Planning of material & Forwarding inspection call, getting dispatch clearance, handling, loading, transportation and unloading of these items at respective contractor's store. Receiving, taking over, handling, loading, transportation and unloading of GASONET supplied free issue materials Regulators, Meters, GI Pipe 1/2" (only), Isolation valve upto 1", MLC pipe, Appliance valve and free issue items (if any other) as defined in specification from GASONET's designated stock yards to Contractor's own stores / work sites, proper storing, stacking, identification, providing security and insurance cover. Preparation and approval of isometric graph, sketches, schedules & execution procedures. Finalising optimum route with consent of customer from transition fitting to cooking oven / appliance and ensuring installations in well ventilated area. Making temporary but stable platforms/ scaffolding/ rope ladders and supply of all other safety devices. Portal entry for new connections - New registration tracking and feasibility survey and its updation as per GASONET defined TAT; printing of stationary as per approved GASONET formats required during connections. Follow-up and attend complaints receives from customer regarding delay in new connection & NG conversion (refer drawing attached in tender document)				-
	Installation of GI service pipes & fittings, regulators, Valves etc. including NPT threading, as specified, Drillings of holes through the walls (Brick, RCC), Granite, Marble, Wood Cutting, Glass Cutting with proper heavy duty hammer drill machine, tools & tackles, using proper sealant/ grout material and colours to match the original replacement of the damages during drilling, restoring the area to the original condition, Painting of scratched length of powder coated pipe and fittings after proper surface finish by one coat of approved primer paint and two coats of approved synthetic enamel paint. Restoring the wall surface to original conditions.				-
	Supply & fixing of approved clamps & nylon rawl plugs with SS-304, 2" screws, grout material, suitable thread sealant i.e. Teflon Tape, Joining of transition fitting to above ground service GI pipes, testing, purging and commission of the complete installation. The rates in connections also includes meter installation, tap off rates. The GI installation in already gas charged areas, planning & coordinating with existing consumer's for New tap offs from existing riser with or without tee, testing of these existing risers and commissioning of these connections with newly tapp offs etc.is inclusive.				-

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	Testing, Flushing, purging & commissioning and dully signed reports & documents preparations are in contractors scope.				-
14.1	LMC Part multi-layer composite (MLC) Pipe 12mm and Installation of Composite pipe from Gas meter to appliance valve. after installation of Gas meter and regulator. Note:- 1.MLC Pipe, Appliance Valve shall be free-issue material provided by the owner. 2.MLC fitting, clamps and other consumables required for installation shall be in the scope of the Contractor.	RM	43,750	377	1,64,93,750
14.2	Non LMC Part 1/2" GI Pipe Installation of ½” Powder Coated GI pipe and fittings from TF to Riser Installation Valve, and from after Riser Isolation Valve up to Lateral Isolation Valve (included). The scope further includes installation of all pipe length after the lateral isolation valve along with installation of regulator and gas meter with associated inlet connections, supply and fixing of approved meter brackets, GI fittings, clamps, , complete in all respects, as per EIC instructions, approved drawings, and technical specifications and submission of isometric drawing duly certified by Customer and TPI. Note: 1.GI Pipe, Isolation Valve, Gas Meter, and Regulator, Appliance valve shall be free-issue materials provided by the Owner. 2. GI fittings, meter brackets, screw, clamps, and all other consumables required for installation shall be in the scope of the Contractor.	RM	1,87,500	575	10,78,96,875
14.3	LMC Part 3/4" GI Pipe Providing and Installation of 3/4” Powder Coated GI pipe and fittings from TF to Riser Installation Valve, and from after Riser Isolation Valve up to Lateral Isolation Valve (included). The scope further includes all pipe length after the lateral isolation valve along with installation of regulator and gas meter with associated inlet connections, supply and fixing of approved meter brackets, GI fittings, clamps, and all necessary supports up to Appliance Valve, complete in all respects, as per EIC instructions, approved drawings, and technical specifications. Note: 1. Meter, and Regulator, Appliance valve shall be free-issue materials provided by the Owner. 2. GI Pipe, Isolation valve, GI fittings, meter brackets, screw, clamps, and all other consumables required for installation shall be in the scope of the Contractor.	RM	300	475	1,42,500
15	PNG CONNECTIONS (RFC)				-
15.1	Making Connection ready for commissioning (RFC) and commissioning it after installation of GI Pipe, Meter regulator and gas Meter including pneumatic testing of GI pipe upto meter regulator and Manomatic testing after gas meter to appliance valve. Note: 1. This SOR line item includes installation of Meters & Regulators for connectivity with GI Pipe & MLC pipe, appliance valves, isolation valves. 2. Supply & installation/jointing of all other MLC fittings & consumables required for PNG connection ready for commercial utilization shall be in the scope of contractor, no extra payment shall be paid elsewhere for the same. 3. includes testing of entire connectivity for PNG connections as per statndard test procedures stipulated in tender documents or as per EIC.	No's	12,500	316	39,51,750
16	Conversion of Domestic Appliance				-
	Conversion of all types of LPG kitchen appliances to NG based appliances by installing appliance valve, Supply of suraksha hose of 1 meter, changing/ converting nozzles, Hose clamps both side , jets and associated controls for domestic & imported appliances with proper tools & tackles.				-
	Cleaning and performing minor maintenance, greasing etc of appliance, testing/ showing performance to the customer, signing of joint meter records (JMR) and instructing customer on use & safety norms, complete as per scope of work, specifications & to the satisfaction of owner/ EIC/ SIC.				-
16.1	2 Burner Stove	No's	10,000	245	24,50,000
16.2	3/4 Burner Stove	No's	2,500	300	7,50,000
16.3	Geyser	No's	100		-

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	Note: Conversions of all the domestic LPG Stove (one appliance per household) to Natural Gas (NG) based appliances, Supply & changing of the nozzles / jets/ Suraksha hose 1 Mtr, hose clamps both side and associated controls for domestic & imported appliances with proper tools and tackles. The rates include testing of Kitchen piping from meter to Appliance valve and supply and fixing of Suraksha rubber hose, one Steel reinforced Flexible Hose as per IS 9573 (with Type as per latest PNGRB guidelines) per appliance/stove with clamps along with all required MLC fittings & consumables required for conversion of connection shall be in the scope of contractor. Cleaning and performing minor maintenance including gas inlet side change in stove, greasing etc. of the appliance. Testing and showing the performance to the customer, signing of joint meter records (JMR), changes the stove jet, and instructing the customer on use & safety norms, complete as per specifications & to satisfaction of owner / Engineer in Charge.				-
17	PNG CONNECTIONS FOR COMMERCIAL CUSTOMERS				-
	Supply & Installation of GI pipes & fittings, Installation of meter, regulators, Valves, etc. including NPT threading, as specified, Drillings of holes through the walls (Brick, RCC, Granite, Marble, Wood Cutting, Glass Cutting with proper heavy duty hammer drill machine, tools & tacklet using proper sealant / grout material and colours to match the original replacement of the damages during drilling, restoring the area to the original conditior.				-
	Assessment of material requirement for installation at site, Purchasing of GI Pipes & fittings from approved /recommended vendors of GSL, Scheduling, Planning of material & Forwarding inspection call, getting dispatch clearance, handling, loading, transportation and unloading of these items at respective contractor's store. Receiving, taking over, handling loading, transportation and unloading of owner supplied free issue material such as regulators, meters, and other free issue items as defined in specification from owner's designated stock yards to Contractor's own stores / work sites, proper storing, stacking, identification, providing security and insurance cover. Preparation and approval of sketches, schedules & execution procedures. Finalising optimum route with consent of customer from transition fitting to meter outlet connection and ensuring installations in well.				-
	Supply & fixing of approved clamps , screws, grout material, suitable thread sealant i.e. Teflon Tape, foining of transition fitting to above ground GI pipes, testing & Jumper, purging and commission of the complete installation.				-
17.1	Supply and Installation of 1" powder coated GI Pipe (Threaded) from riser isolation valve to all length including supply of materials (Pipe, fittings, clamps, and other consumable items are in contractor scope) as per instruction of EIC and specifications. Note: 1.Isolation valve shall be free issue materials provided by the owner. 2. GI Pipe,all Fittings, screw, clamps, supports and other consumables required for installation shall be scope of the contractor.	Mtr.	80	1,085	86,800
17.2	Supply & Installation of 1.5 " powder coated GI Pipe (Threaded) from riser isolation valve to all length including supply of material (Pipe, Fitting, Clamps and other consumable items are in constractor scope) as per instruction of EIC and specifications. Notes:- All materials GI Pipe,Fittings, Isolation valve, screw, clamps and other consumable required for installation shall be scope of the contractor.	Mtr.	10	1,515	15,150
17.3	Supply & Installation of 2 " powder coated GI Pipe (threaded) from riser isolation valve to all length including supply of matrials (Pipe, fitting, clamps, reducer and other consumable items are in contractor scope) as per instruction of EIC and specifications. Note- All materials GI Pipe,Fittings, Isolation valve , screw, clamps and other consumable required for installation shall be scope of the contractor.	Mtr.	10	1,975	19,750
18	Installation of Equipment and testing				-
18.1	Installation/Fixing of non Domestic Diagphragm meter and regulator with associated inlet & outlet connections fittings, Valves, Meter Adaptor. Using approved meters & regulator brackets and other supports by proper scaffolding/grouting. Restoring the area/walls to original condition and testing as per specification and to complete satisfaction of consumer and EIC. for all type of PD meter. Note: 1. Meter and Regulator are free issue material.	No's	7	1,275	8,925
18.2	Installation/Fixing of wall mounted RPD meter and regulator with EVC, associated inlet & outlet connections fittings, Flanges 150 # (Inlet and Outlet of wall Mounted Meter) ,stud Bolts, Valves. Using approved meters & regulator brackets and other supports by proper scaffolding/grouting. Restoring the area/walls to original condition and testing as per specification and to complete satisfaction of consumer and EIC. 1. Meter Regulator and EVC are free issue materials. 2. for Inlet and Outlet flange 150 # shall be supplied by Contractor.	No's	1	8,459	8,459

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18.3	Installation/ Fixing of MRS (Size G40 and above) including connected TF to Inlet of MRS skid, including all fitting, Loading, Transportation of MRS from Owner's designated store / site to another site. Also includes unloading of the regulating systems, shifting of skids on the platform / foundation using cranes / hydra as required as per the site condition. and proper Grouting of Skid to complete satisfaction of consumer and EIC.	No's	1	11,129	11,129
18.4	Installation/ Fixing of MRS (Size up to G25) including connected TF to Inlet of MRS skid, including all fitting, Loading, Transportation of MRS from Owner's designated store / site to another site. Also includes unloading of the regulating systems, shifting of skids on the platform / foundation as required as per the site condition and proper Grouting of Skid to complete satisfaction of consumer and EIC.	No's	1	10,015	10,015
18.5	Supply and Installation of SS Pressure gauges (0 to 4 KG) including all fittings.	No's	10	1,300	13,000
18.6	Scope Including Dismantling of All type of Meter, Pipe and other Material and De-Registration of Meter.	No's	2	1,525	3,050
18.7	Supply and Installation of 1"Powder coated GI pipe (Installation of TF,GI sleeve for protection,Concrete Block installation,1.2 to 2 meter GI installation above TF including RIV) as per instruction of EIC and specifications. Note:- 1.Transition fitting (TF) and PE Fitting, Isolation valve shall be free issue materials supplied by the owner. 2.GI Pipe, fitting, concrete block, clamps and other consumables required for installation shall be in the scope of the contractor.	No's	8	1,200	9,600
18.8	Installation of 2" × 63 mm transition fitting complete with protective brickwork, sand filling including connection from Transition Fitting (TF) to MRS / RPD, as applicable. The scope includes supply, fabrication, and installation of all required MS/CS pipes, flanges, fittings, supports, and associated accessories, fully completed in all respects, as per Engineer-in-Charge (EIC) instructions and technical specifications. Note:- 1. Transition Fitting (TF) and PE fittings shall be free-issue materials supplied by the Owner. 2.MS/CS pipes, flanges, fittings, brickwork, and all other consumables required for installation shall be in the scope of the Contractor.	No's	1	2,897	2,897
18.9	Installation of 4" × 125 mm transition fitting complete with protective brickwork, sand filling including connection from Transition Fitting (TF) to MRS / RPD / DRS / DCU, as applicable. The scope includes supply, fabrication, and installation of all required MS/CS pipes, flanges, fittings, supports, and associated accessories, complete in all respects, as per EIC instructions and technical specifications. Note:- 1. Transition Fitting (TF) and PE fittings shall be free-issue materials supplied by the Owner. 2.MS/CS pipes, flanges, fittings, brickwork, and all other consumables required for installation shall be in the scope of the Contractor.	No's	4	3,676	14,704
18.10	Supply and fixing of meter cage of approved size, and design suitable for Diaphragm and Wall Mounted RPD meter, fabricated from wire mesh / angles with adequate strength. Cage shall be provided with lockable hinged door, proper ventilation, rust-proof paint/ 2 No's of coat powder coating, and necessary provisions for pipe entry and exit including fixing with anchor fasteners / clamps on wall or supporting frame as directed by EIC and specification.	KG		119	-
19	INSTALLATION WORKS				-
	Construction of Foundation & Installation of DRS/Service Regulator				-
	Receiving and taking over, handling, loading, transportation and unloading of DRS/ Service Regulator Skid from owner's designated stockyards to site, installation and hooking up with Steel & MDPE pipe.				-
	Installation of DRS with RCC pedestal, foundation and Structural Works. Providing and laying reinforced cement concrete of grade M-20 with 20 mm and down grade crushed stone aggregate in all types of structures like foundations, pedestals, pedestal bases, pipe supports, sleepers, columns, equipment, foundation, etc. including providing fencing with gate wherever required.				-
	Hook up from the existing steel tapping to DRS inlet and installation of all the items like pipe, fittings, valves, etc. supplied as FIM by owner as per the directions of the EIC/ SIC.				-
	Supply fabrication and erection of all types of pipe supports like clamps, saddle, guide, stops, cradles, neoprene sheet, turn buckles, anchors, T-posts, stockade/ trestle and pipe bridge for overhead piping, frames for canopy, approach ladders and platforms, crossover, cable tray supports etc, including painting suitable for highly corrosive area as per specification, labour and supervision & complete work as per drawing, specifications and instructions of EIC/ SIC.				-
	All handling and transport charges of raw materials and fabricated structures including double handling, as required, for completion of work in accordance with time schedule, are deemed to be included in the quoted rates.				-

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	Bolts, nuts, washer, U-clamps, gaskets etc. if required during installation shall be procured and supplied by the contractor within the rate quoted.				-
	Rate quoted in SOR shall include cost of all labour, tools, tackles, equipment, hire charged etc. This is a lump sum item rate and shall not be measured & paid separately				-
19.1	SR- Fabrication Fabrication, receiving, taking over, handling, loading, transportation, and unloading at site of Service Regulator (SR). Fabrication, erection, welding, testing, and installation of Service Regulator as per approved drawings and specifications. Any other material or activity not specifically mentioned but otherwise required for satisfactory completion and safety of the work shall be supplied/executed by the Contractor within the specified schedule at no extra cost. Note: 1.Service Regulator, PE fittings, PE pipe, and 1" isolation valve shall be free-issue materials supplied by the Owner. 2.1" GI pipe and GI fittings shall be supplied by the Contractor. 3.Installation of foundation shall be in the scope of the Bidder. 4.Fabrication and erection of SR box shall be in the scope of the Bidder. 5.All other consumables such as Teflon tape, manpower, cement, aggregates, tools & tackles, etc. required for completion of the job shall be in the scope of the Bidder.	Nos	51	10,000	5,10,000
20	CIVIL & STRUCTURAL WORKS				-
	Installation of brick/ RCC valve chambers/ pits				-
	All civil works including excavation of pit, piping supports including best grade bricks used for all walls, PCC and RCC works required for valves pit base & top cover, internal surface plaster, primer & paint coatings on walls, cat ladders & pedestals with insert plates as required sealing of pipe at valve pits, providing metal cover with locking arrangement etc and finishing, clean up and restoration of site, filling and grading of area around the valve station to avoid any local water/ sewage flooding of that area, with provision of separate metal handle to operate valves from above ground as per the approved for construction drawings and specifications as per instruction of EIC/ SIC.				-
	Earth work in excavation and filling to the grades and levels shown in the approved drawings in all kinds of soil including for road embankments, using approved quality good earth from designated borrow area, for all heights and depths including clearing and stripping (Min. 150 mm) of the area marked for filling, taking spot levels, consolidating the exposed natural soil surface, excavating the earth from borrow area loading, transporting & unloading, spreading in layers not exceeding 150 mm thickness, breaking clods, watering (if reqd.), ramming and compacting by manual/ mechanical means to give minimum 95% of modified Proctor's density of earth, testing & dressing including disposal of all unserviceable material all complete as per specifications and directions of EIC/ SIC. Rate to include cost of labour, tools, tackles, equipment, hire charges, cost of borrow earth by way of realities, right of way, cess etc., as applicable with all by works and sundry works.				-
	Supplying and laying plain cement concrete (including shuttering of required) in all types of concrete works including levelling courses below foundation, substructure, superstructure, chambers, cable trench, under floors and any other locations, at all levels as per drawings, specifications and directions of EIC/ SIC.				-
	Providing and laying reinforced cement concrete of grade M-20 with 20 mm 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, providing and fixing reinforcing steel, shuttering, inserts, finishes etc. at all depths and heights complete as per drawings, specifications and direction of the EIC/ SIC.				-
	Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials, such as minimum 43 grade cement including sulphate resistant cement for sub structures, R/F steel, Inserts, bolts, conduits, bitumen, other minor construction materials, shuttering tanging, earth work in excavation and backfilling using serviceable earth in all conditions shorting bailing and pumping out water, testing of concrete, curing etc. will all bye works and sundry works.				-
	Providing and laying reinforced cement concrete (M20 Grade) with 20 mm and down grade crushed stone aggregate in pavement, including preparation of base (i.e. compacted sub grade, 200 thk sand and 50 thk PCC M-10 grade), leaving pockets if necessary, making recess, projections fixing inserts conduit pipes (GI, PVC, HDPE etc.) laying in alternate panels, filling the gaps between the panels with bitumen etc., making slopes, finishing edge, leaving bars for pedestals & sleepers, including providing sand fill isolation, shuttering providing and fixing reinforcing steel, curing, chipping and modification works etc. as specified in any shape, thickness, position and finishing the top surface smooth as per requirement etc. all complete as per drawings, specifications and directions of the EIC/ SIC.				-

SOR - MDPE LAYING & LMC WORK - UK GA (E & W)					
SOR ITEM	ITEM DESCRIPTION	UNIT	Qty	Unit rate inclusive of all taxes & duties but exclusive GST	Total Amount
	Providing brick work with brick class designation M 5.0 of IS:1077 in cm 1:5 (1 cement 5 sand) in steps, walls, retaining walls and load bearing structures drains, or any shape with all lead, depths & height including curing scaffolding etc., as per specifications and drawings with all bye-woks and direction of the EIC/ SIC.				-
20.1	Brick valve chamber - Size (L x W) - 1m x 1m	Nos	2	30,275	60,549
20.2	RCC valve chamber - Size (L x W) - 1m x 1m	Nos	39	39,364	15,49,952
21	Civil & Structural Works				-
	This item is for miscellaneous jobs including supply of Brick, Cement, Sand, Aggregate, Steel etc.				-
21.1	Brick Works	CuM		5,175	-
22.2	PCC Works (M20)	CuM		5,850	-
21.3	RCC Works (M20)	CuM		6,950	-
21.4	Reinforced Steel	KG		98	-
21.5	Structural Steel	KG	500	123	61,250
21.6	Supply and installation of half-round RCC crimp guard as per approved drawing	No's	12,500	471	58,90,625
21.7	Angle F/Pipe Support 32x32x3mm	No's	100	1,019	1,01,900
21.8	Demolition all types of masonry excepting cement concrete plain or reinforced	CUM	10	950	9,500
22	O&M SOR				-
	Scope inculdes attending MDPE leakage complaint within 30 min of complaint reporting time with all tools, tackles and consumbales, closure of MDPE Valve/Squeezing of Line, barricading of affected area,excavation of area near damage portion as per requirement, Rectification of damage line, opening of valve/Squeezer, testing of EF joint with soap solution, backifiling, prepration of report as per format provided by GSL. Sufficient Crew/Manpower shall be available at site and should attend the leakage within 30 min of complaint reporting time. Free issue materials (i.e. MDPE pipe, Fittings, etc.) shall be supplied by GSL (Contractor shall arrange for receiving, handling, loading, transportation and unloading of MDPE Pipes & PE Fittings etc. from GSL stores). Procument/maintanenance of all tools, tackles and consumbales (i.e. Squeezer, Valve key, Fusion Machine, Generator, Isopropyl Alcohol, etc) shall be arranged by Contractor. Works shall be executed as per instruction and satisfaction of EIC/SIC. Any pipeline relaying required, etc. shall also be in the scope of Contractor.				-
22.1	MDPE damage recification/repair & maintenance work (upto 32 mm Dia)	No's	104	1,500	1,56,429
22.2	MDPE damage recification/repair & maintenance work (above 32 mm Dia)	No's	49	2,000	97,333
23	Scope includes attending emergency complaints related to DRS/MRS/Industrial/Commercial connections with all tools, tackles and consumbales. Scope includes checking of leakage at joints with Soap Solution/Gas Detector, attending leakage, painting touch up work, Prepration of report as per format provided by GSL.Sufficient crew/Manpower shall be available at site and should attend the leakage within 30 minutes of complaint reporting time.Free issue materials shall be supplied by GSL (Contractor shall arrange for receiving, handling, loading, transportation and unloading of GI Pipe/fittings etc. from GSL stores) GI Fmaterial and fitting shall be scope of contractor and procument/ maintainenance of all tools, tackles and consumbaes shall be bidder scope."				-
23.1	RECTIFY, LEAKAGE, GAS	No's	104	1,047	1,09,135
24	HDPE DUCT LAYING				-
24.1	laying of 1 No's 40mm OD, 6kg/cm2 permanently lubricated HDPE ducts, in same pipeline bore direct buried or tied along with MDPE at all crossings (cased or uncased), in all type of soil & terrain, excavation as required, including cleaning and sealing of ducts at the end of laid drum lengths, jointing of HDPE conduit, supply of all type of fitting for HDPE telecom duct laying (GSL Scope), Testing of HDPE Duct and accessories after laying, preparation of report and final drawing & documents as per specification, joint location marking , erection accessories (suitable for min 8 kg/cm2 pressure rating) ,all complete as per specifications provided in the bid document & as per direction of consultant. (This duct is for future requirement for total length of pipeline as per spec. and drawing). HDPE duct is to be tied at 2 o'clock position to carrier pipe with string at regular intervals and held with Galvanized clamps or suitable material as decided by client / consultant.	Meter	22,770	116	26,44,736
25	MDPE Laying by HDD (All type) along with 1 No's HDPE Duct as per specification :-				-

SOR - MDPE LAYING & LMC WORK - UK GA (E& W)					
SOR ITEM	ITEM DESCRIPTION	UNIT	Qty	Unit rate inclusive of all taxes & duties but exclusive GST	Total Amount
25.1	laying of 1 No’s 40mm OD, 6kg/cm2 permanently lubricated HDPE ducts, in same pipeline bore direct buried or tied along with MDPE at all crossings (cased or uncased), in all type of soil & terrain, excavation as required, including cleaning and sealing of ducts at the end of laid drum lengths, jointing of HDPE conduit, supply of all type of fitting for HDPE telecom duct laying (GSL Scope), Testing of HDPE Duct and accessories after laying, preparation of report and final drawing & documents as per specification, joint location marking , erection accessories (suitable for min 8 kg/cm2 pressure rating) ,all complete as per specifications provided in the bid document & as per direction of consultant. (This duct is for future requirement for total length of pipeline as per spec. and drawing). HDPE duct is to be tied at 2 o- clock position to carrier pipe with string at regular intervals and held with Galvanized clamps or suitable material as decided by client / consultant.	Meter	76,230	125	95,28,750
26	Supply, digging of pit, Fixing of Pre cast RCC chamber, placing of Pre-cast RCC slab on RCC chamber and back filling of jointining pit.	No's	1,980	8,250	1,63,35,000
27	DCU Installation	Nos.	7	Rate to be quoted by the bidder for this item.	-
	Total Amount				27,03,18,038
	GSt 18%				4,86,57,247
	Final Amount				31,89,75,285

GASONET SERVICES (UK) LIMITED					
SUB: HIRING OF SERVICES FOR MDPE LAYING AND ASSOCIATED WORKS (LMC) FOR UK GA					
TENDER NO: GASONET/C&P/GSL/PE PNG/UK/2026-2027/25					
Bidder's Name:					
Part	Description	Total Estimated Cost (inclusive of all applicable taxes & duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST) in Rupees	Quoted Variation		
			"INCREASE" OR "DECREASE"	Percentage In Figures (up to two decimal places)	Percentage In Words (up to two decimal places)
			(Refer note no 1 below)		
1	2	3	(4 a)	(4 b)	(4 c)
A	Refer Detailed SOR sheet attached herewith	27,03,18,038			
2	Notes: Bidder's total price to be arrived by applying quoted %age increase/ decrease on total estimated cost given at col. No. 3 above.				
3	Applicable GST (CGST&SGST/UTGST or IGST) rate on Total price (in %)				
4	Service Accounting Codes (SAC) as per GST act [To be filled 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 considered as "DECREASE" in terms of percentage.				