



SCHEDULE OF RATES PART-1 -LAYING, INSTALLATION, TESTING & COMMISSIONING OF MDPE PIPELINE



LOCATION : VALAD , NANA CHILODA AND ADJOINING AREA

Item No.	Item Description	Unit	Total qty	As per Bid				Remarks
				Unit Rate in Rs	Applicable GST in %	Unit Rate in Rs incl. GST	Total Price in Rs. incl. GST	
A	B	C	D	E	F	G = E + (E X F)	H = D X G	I
PART-A	MDPE PIPELINE LAYING / INSTALLATION INCLUDING SUPPLY OF MDPE FITTINGS & ACCESSORIES IN NORMALSURFACE/ ANY UNPREPARED SURFACE (KATCHA SURFACE)							
	For detailed scope of work, refer tender PTS - LAYING OF POLYETHYLENE MAIN PIPELINES AND SERVICE PIPELINE FOR VARIOUS CONNECTIONS (Document no.: P.012659 D 11077 002)							
	"Receiving and taking-over" as defined in the specification, handling, loading, transportation and unloading including owner supplied MDPE pipes (PE 100, SDR 11 & 17.6), Service Regulator Module from owner's designated stock yards /place(s) of issue/ dump site(s) as well as contractor supplied materials like PE-100 Electro fusion Fittings (like Bends, Couplers, End Caps, Tee, PE Reducer, CS to PE Fittings, Saddle Tapping,) , Warning Mats, Casing Pipes, Supply & installation of Route / Line Marker after verification by OWNER engaged TPA at contractor store which is required to complete the work, Contractor's own stock-yard(s) / work shop(s) / work site(s) including proper storing, stacking, identification, providing security & insurance cover for the materials, Liaisoning with Landowning agencies / statutory authorities, preparation of detailed Survey in Auto Cad for approval of Owner In charge, making trial pits to determine the underground utilities/ services etc., obtaining permission from Land owning agencies , 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-in-charge. Trenching to the required depth in NORMALSURFACE/ ANY UNPREPARED SURFACE (KATCHA SURFACE) terrain, damping, stringing / uncoiling on the pipes in Right-of-Use, jointing of the pipe ends/ fittings/ valves by qualified personnel, using bar coded electro fusion techniques,							
	laying/installation of MDPE pipe including executing of all works; arrangement of all additional land required for Contractor's storage, fabrication, access for construction; supply of all materials (except Owner supplied materials), consumables, labour and other incidental works and handing over the same after return of the surplus pipes to the Owner's designated stockyard(s); carrying out all temporary, ancillary, auxiliary works required to make the MDPE .							
	Construction, Installation, testing & commissioning of Medium Pressure / ow pressure PE 100 pipes as per specification and approved precedures.							
	Pipeline ready for pre-commissioning as per drawings, specifications, scope of work and other provisions of Contract document and instructions of Engineer-in-charge, including but not limited to carrying out the following works:							
	Preparation and getting approval of schedules, execution procedures, drawings/ sketches/ wherever required, making trial pits to determine the underground utilities / services etc., restoration of the abandoned trial pits to original condition.							
	Grading the ROU, barricading the work area as per local authorities norms & to satisfaction of EIC, installation of safety signs, trenching to required depth, repairing of all damaged utilities if any, and payment of any compensation (if claimed by owner/other utility agencies)							
	Uncoiling / stringing of pipes, clamping, jointing of the pipe ends/ fittings/ valves by qualified personnel using approved electro-fusion techniques as per specification.							
	Obtaining permission, work permit/ NOC on behalf of owner from various statutory authorities having jurisdiction before execution of the work and complying with all stipulation/ condition/ recommendation of said authorities. However, payment for getting permissions only, shall be made as per provision of contract.							
	Trenching to all depths by excavation in all types of soils including soft hard rock, including blasting, chiseling or otherwise cutting etc. to a width to accommodate the pipeline during lowering & backfilling as per the relevant standards, specifications etc.							
	Lowering the PE pipeline in trench to required depths, Supply /providing of required sand for padding in trench of PE pipe below, top and around the MDPE pipeline with sand and soft soil / graded earth respectively approved by Engineer-in-charge along the entire length of the trench before & after laying of pipeline. Placement to HDPE warning tap (300mm width x 300 Micron or 1000 Micron) over the entire length of laid pipeline in trench, backfilling of trench with available excavated material after screening, compaction with mechanical compactor or otherwise and water at subsequent layers of 150mm above warning mat. All tiles/slabs/ curb stones etc. removed during excavation shall be placed properly. Roads, pavements, footpaths etc. to be made motorable wherever pipeline is laid.							
	Installation and electro-fusion jointing of valves wherever required and as directed by Engineer-in-charge.							
	Permanent restoration by doing Asphaltting, concreting etc. is not covered in the scope of this work.							
	Final clean-up & restoration of right of use/corridor and other associated area to its original condition, including cleaning the area of all unservicable materials, debris, excess earth near trenches to the designated disposal area area as per the specifications, instruction of Owner/ Engineer-in-charge and obtaining NOC from local/ concerned authorities.							
	Restoration of all surrounding ground features to that existing before as detailed out in the specifications and as directed by Engineer-in-charge which would include replanting of any uprooted trees etc.							
	Cleaning, flushing, pneumatic testing, purging with nitrogen and commissioning as per specification and approved procedures providing all tools and tackles, nitrogen instruments, manpower and other related accessories and as per the instructions of the Engineer-in-charge.							
	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.							
	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.							
	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.							
	Maintaining the completed pipeline / installation for any defect, failures during defect liability period (i.e. 12 months from date of completion of work)							
	Handing over the completed works to SGL for their operation/ use, returning of all free issue surplus material to SGL stores, reconciliation of free issue material area wise and obtaining "no objection/dues certificate" from SGL.							
	Any other activities not mentioned/ covered explicitly above, but otherwise required for satisfactory completion/ operation/ safety/ statutory/ maintenance of the works shall also be covered under the scope of work and has to be completed by the contractor within specified time schedule at no extra cost to SGL.							
A.1	MDPE PIPELINE LAYING / INSTALLATION							
A.1.1	63 mm OD X SDR 11 (5.8mm Thick)	Mtr	13122.00	167.05	18%	197.119	2586595.518	
A.1.2	90 mm OD X SDR 17.6 (5.2mm Thick)	Mtr	7038.00	182.26	18%	215.0668	1513640.138	
A.1.3	125 mm OD X SDR 17.6 (7.1mm Thick)	Mtr	4450.00	280.54	18%	331.0372	1473115.54	
	Note : 1. Rates for rock breaking (Refer SOR Sr. No. A.5) 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.: A.9 & A.10 respectively.							
A.2	Laying of 32mm pipeline by Open cut or Moling, the other activities shall be followed & carried out by the contractor as per detail mentioned in above item no. A.1 without any extra cost to owner within specified time schedule.							
A.2.1	32 mm OD X SDR 11 (3.0mm Thick)	Mtr	21000.00	150.39	18%	177.4602	3726664.2	
	Note : Item rate A.1 & A.2 are applicable for complete work of laying the underground pipeline between CS to PE transition fittings/ PE to PE fittings. The length of pipeline are tentative.							
A.3	Pipeline laying using Manual Boring / Moling Technique without casing of carrier MDPE pipe sizes							
	Including supply of all MDPE pipe fittings for carrier MDPE line pipe (PE100 SDR 11 & 17.6) as per specification; Survey of under ground utilities, execution of the work as per specification, including excavation of pits moling of casing pipe with the hole size not exceeding 20% of the carrier pipe dia, insertion of carrier pipe and jointing of carrier pipe at both the end laid carrier pipe line, testing & commissioning and subsequent backfilling and compaction of pits including restoration of the pits to original condition.							
A.3.1	63 mm OD X SDR 11 (5.8mm Thick)	Mtr	3278.00	189.68	18%	223.8224	733689.8272	
A.3.2	90 mm OD X SDR 17.6 (5.2mm Thick)	Mtr	1762.00	197.00	18%	232.46	409594.52	
A.3.3	125 mm OD X SDR 17.6 (7.1mm Thick)	Mtr	1050.00	304.47	18%	359.2746	377238.33	
A.4	Pipeline laying using Manual Boring / Moling Technique with casing of carrier MDPE pipe sizes of:							
	Including supply of casing pipe (HDPE casing pipe & Coupler) and all MDPE pipe fittings for carrier MDPE line pipe (PE 100 SDR 11 & 17.6) as per specifications.							



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	Survey of under ground utilities, execution of the work as per specification, including excavation of pits moling of casing pipe with the hole size not exceeding 20% of the casing pipe dia, insertion of carrier pipe and jointing of carrier pipe at both the end with laid carrier pipe line, testing & commissioning and subsequent backfilling and compaction of pits including restoration of the pits to original condition.							
A.4.1	32mm PE Pipe, HDPE caing pipe dia 50 mm	Mtr	32.00	116.6	18%	137.588	4402.816	
A.4.2	63mm PE Pipe, HDPE caing pipe dia 90 mm	Mtr	32.00	116.6	18%	137.588	4402.816	
A.4.3	90mm PE Pipe, HDPE caing pipe dia 125 mm	Mtr	32.00	116.6	18%	137.588	4402.816	
A.4.4	125mm PE Pipe, HDPE caing pipe dia 160 mm	Mtr	32.00	116.6	18%	137.588	4402.816	
	Note : Quantity of casing pipe HDPE casing pipe shall be procured with due approval from EIC							
A.5	Excavation of Hard Rock If any hard rock strata / large boulders is encountered during excavation exceeding 1.5 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.	Cub. M	3.20	524.7	18%	619.146	1981.2672	
	Note : The rates are payable over and above the Laying rates as per relevant SOR item No.: A.1 & A.2.							
A.6	Excavation beyond 1.5m depth in case of crossing of utilities/ drain/ culverts only Excavation, beyond 1.5m depth, trench side wall protection, backfilling, compaction, removal of excess earth/ material, to designated place as per specifications and instructions of Engineer-in-charge.	Cub. M	3.20	524.7	18%	619.146	1981.2672	
A.7	Raking up of built up surface Raking up of hard surface of any type including rock (Less than 1.5m length), metal, concrete, RCC, bituminous, tiled, brick lined etc. All tiles/ slabs/ kerb stones etc. removed during excavation shall be placed properly. The rates are payable over and above the Laying rates as per relevant SOR item.	R. Mtr	32.00	291.5	18%	343.97	11007.04	
A.8	Restoration of trenches where the above items rates are applicable: Restoration of the roads; pavements, channels, footpaths, tiles, stones etc. to original condition including supply of the approved quality material required, as per local authorities norms, obtaining NOC from concerned local authorities/ land owners/ third party inspection agencies designated by SGL and to the satisfaction of Engineer-in-charge.							
A.8.1	Asphalted surface (Any thick) for all sizes of PE pipe laying	R. Mtr	2132.33	58.3	18%	68.794	146691.51	
A.8.2	Cement Concrete/ RCC (Any Grade & Any thick) for all sizes of PE pipe laying	R. Mtr	10663.84	93.28	18%	110.0704	1173773.134	
A.8.3	Tiles / Paver Blocks / Kerb Stone/Brick Soiling for all sizes of PE pipe laying	R. Mtr	10663.84	58.3	18%	68.794	733608.209	
A.9	Construction, Supply & Installation of valve Chambers: Supply , construction,& installation of chamber with pre cast SFRC Cover 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, pedestals with insert plates as required, sealing of pipe at pits, providing cover etc., finishing, clean up and restoration as per Standard drawing No.: TEIND-STD-G-M-9012 & 9013. 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.							
A.9.1	RCC Valve Chamber with frame and SFRC cover as per Drawing No.: TEIND-STD-G-M-9012	Nos.	10.00	8164.33	18%	9633.9094	96339.094	
A.9.2	Brick Valve Chamber with frame and SFRC cover as per Drawing No.: TEIND-STD-G-M-9013	Nos.	15.00	6996	18%	8255.28	123829.2	
A.9.3	Pre cast Valve Chamber with frame and SFRC cover as per Drawing No.: TEIND-STD-G-M-9026	Nos.	45.00	8164.33	18%	9633.9094	433525.923	
A.10	Installation of Service Regulator Installation of owner supplied Service Regulator Module, testing & commissioning as per owner's specification. This includes associated 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 No.: TEIND-STD-G-M-9016. Supply of all consumables, materials, manpower and carrying out all mechanical works for Service Regulator Module Box including supply and installation of electro fusion fittings, tie-in of Service Regulator module with PE network as per OWNER specification.							
A.10.1	B-10 Service Regulator Module	Nos.	15.00	1752.5	18%	2067.95	31019.25	
A.10.2	B-25 Service Regulator Module	Nos.	25.00	1752.5	18%	2067.95	51698.75	
A.10.3	B-50 Service Regulator Module	Nos.	25.00	2798.4	18%	3302.112	82552.8	
A.10.4	B-100/200 Service Regulator Module	Nos.	15.00	3031.6	18%	3577.288	53659.32	
A.11	Supply, Construction and Installation of Markers Supply, Construction & installation along the route of marker including all civil & Mechanical works such as supply of materials, excavation of pit in all types of soils, PCC, RCC of pedestals with insert plates, grouting as required etc., finishing, clean up and restoration as per Standard drawing No.: TEIND-STD-G-M-9002, 9004 & 9005							
A.11.1	Permanent (Pole) Marker as per Drg No.: TEIND-STD-G-M-9002	Nos.	10.00	4081	18%	4815.58	48155.8	
A.11.2	Pipeline Route Markers (Type-A) as per Drg No.: TEIND-STD-G-M- 9004.	Nos.	600.00	314.82	18%	371.4876	222892.56	
A.11.3	RCC Route Markers (Type-B) as per Drg No.: TEIND-STD-G-M- 9005.	Nos.	600.00	349.8	18%	412.764	247658.4	
A.13	Liasoning & Collection of Refund of Security deposit which was deposited by SGL for getting permissions from statutory /Concern Authorities and submission to SGL. To be quoted in Percentage (%) of the SD amount. (For evaluation purpose, Rs. 2 lacs has been considered as the SD amount. If the SD amount increase / Decrease accordingly unit "C" in Rs. will proportionately change.)	Rs.	800000.00	10.49%	18%	0.123782	99025.6	
A.14	Carriage of Materials by Manual or by Machines including loading, unloading, stacking of earth, aggregate, sand, debris etc from site to dump yard and vice versa. (Measured stacks will be reduced by 20% for the payment and single side will be paid half of quoted priced by bidder.)							
A.14.1	up to 1 Km	Cub. M	12.80	116.6	18%	137.588	1761.1264	
A.14.2	1 Km to 5Km	Cub. M	33.60	58.3	18%	68.794	2311.4784	
A.14.3	5 Km to 10Km	Cub. M	19.20	116.3	18%	137.234	2634.8928	
TOTAL AMOUNT IN Rs. INCLUSIVE OF GST							14,404,255.96	
NOTE:								
1. All SOR item shall be strictly quoted on E-tendering portal sgl.nprocure.com by the bidder in the price part of the bid, else will be rejected.								
2. The SOR items would be operatable as per job requirement and quantities may vary on ± sides.								
3. The general activities related to laying of PE pipe, installation of GI Pipe for domestic connection or customers as defined in tender document.								
4. The scope as mentioned in the above SOR is of indicative nature only and shall include all activities as detailed in the relevant clauses of the tender document.								
5. Bidder shall note that the quantities mentioned against each activity in Schedule of Rates are tentative only. These quantities subject to change based on actual requirement. Quantities in SOR for PNG connection is considered based on targets set by PNGRB. However, actual no. of execution may vary based on actual registrations received during the course of the contract period.								
6. The quantities of individual item can varied as per site requirement. The payment will be made as per actual certified measurement at site.								
7. BIDDER shall furnish vehicle for site visit during execution of work from SGL's office/ Customer Care Centre/ as per the requirement which shall not be older than 1 years and not run more than 15,000 KMs at the time of award of contract. The Price quoted shall be fixed throughout entire period of the contract and no variation on account of increase and decrease of fuel prices, etc shall be payable.								
8. The SOR shall be read along with the relevant clauses of laying of PE Network, GI installations for PE PNG connections & Station Mechanical , Vol.II of II which is provided in the tender document.								
9. Prices quoted shall be inclusive of all taxes/duties and nothing extra shall be payable by the owner other than statutory variation in GST rate								
10. Price bid evaluation will be carried out inclusive of all taxes & duties i.e. inclusive of GST etc.								
11. The quantities mentioned above are for Two Years.								