



**SCHEDULE OF RATES PART-2 - PNG DOMESTIC, COMMERCIAL & INDUSTRIAL CONNECTION ALONG WITH AFTER SALSSE SERVICES WITH ALL ASSOCIATED WORKS**



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
<b>PART-A</b>	<b>DOMESTIC AND COMMERCIAL CONNECTION INSTALLATION</b>							
	For detailed scope of work for PE, refer tender PTS - LAYING OF POLYETHYLENE MAIN PIPELINES AND SERVICE PIPELINE FOR DOMESTIC CONNECTIONS ( Document no.: P.012659 D 11077 002)							
	For detailed scope of work for GI, refer tender PTS - PTS - INSTALLATION OF ABOVE GROUND GI PIPING & FITTINGS FOR DOMESTIC & COMMERCIAL CONNECTIONS ( Document no.: P.012659 D 11077 003)							
<b>A.1</b>	<b>PE service lines from Tapping of main line up to Transition Fittings as defined in above &amp; tender specifications.</b>							
	Supply, Construction, laying / installation in all types of terrain by any method i.e. Manual Boring or Open Cut including restoration, testing & Commissioning of 20 mm PE -100 pipes, PE Electrofusion fittings, warning taps. 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.  <b>Note: 20mm MDPE pipe shall be free issue material</b>							
	Supply and Installation of powder coated 1/2" NB, 1" NB & 1 1/2" NB GI pipes & GI Fittings up to individual 1/2" NB, 1" NB & 1 1/2" NB 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.							
<b>A.1.1</b>	<b>PE service lines from Tapping of main line up to Transition Fittings as defined in above &amp; tender specifications.</b>							
A.1.1.1	20 mm OD x SDR 9 (3 mm) up to Transition Fitting for MDPE to GI as per Drg No.: TEIND-STD-G-M-9007 (Note: 20mm MDPE pipe shall be free issue material)	Mtr	24000	145.29	18%	171.44	4114612.80	
<b>A.2</b>	<b>Installation of Domestic Connection</b>							
	Receiving, handling, loading, transportation and unloading including owner supplied Free issued materials like Steel Reinforced Rubber hose, Gas Tap/Appliance Valve & Isolation Valves , Domestic Gas Pressure Regulator 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" NB, 1" NB & 1 1/2" NB GI pipes with NPT connection up to customer's kitchen appliances, Powder coated 1/2" NB, 1" NB & 1 1/2" NB GI fittings, Transition fittings ( PE to GI Transition fittings), Gas Tap & Isolation Valves,RCC Guard, Steel Rainforced Rubber hose, Inlet & outlet ( With NRV) brass adaptor for Meter / Regulator, Blind Meter Adapter, Screw Clamp required for fixing of Rubber hose, Powder coated MS Pipe Clamp with Screw and Nuts, Nozzle for Burner conversion, changing of Nozzles and associated works in accordance with manufactures instructions for both domestic and imported burners/ovens/grills/hotplate. 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.							
	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 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.							
<b>A.2.1</b>	<b>Individual House Connection- 1/2" NB GI pipes up to Maximum 10 Mtr. However SGL shall recover cost at actual GI per meter rates quoted by vender if consupion for Individual connection is lesser than 10 meter.</b>							
A.2.1.1	From Transition fitting ( Including Transition fitting, RCC Guard) to 1/2" NB Main Isolation Valve including 1/2" GI Pipe/ Fitting / Valve and from Main isolation valves to appliance valve with burner conversion (Drg No.: TEIND-STD-G-M-9007 & 9010)	Nos.	1300	3911.60	18%	4615.69	6000394.40	
A.2.1.2	From Transition fitting ( Including Transition fitting, RCC Guard) to 1/2" NB Main Isolation Valve including 1/2" GI Pipe/ Fitting / Valve and from Main isolation valves to appliance valve (Drg No.: TEIND-STD-G-M-9007 & 9010) with plugging of Neoprene Cap & installation of Blind Meter Adapter at inlet of Gas Meter	Nos.	300	3241.04	18%	3824.43	1147328.16	
	<b>Note : Individual connection means PNG connection with dedicated ground connection.</b>							
<b>A.2.2</b>	<b>Apartment / High rise Building / Flats Connections- 1/2" NB GI pipes up to Maximum 5 Mtr. However SGL shall recover cost at actual GI per meter rates quoted by vender if consupion for Apartment / High rise Building / Flats Connections is lesser than 5 meter.</b>							
A.2.2.1	Tapping connection from Riser or Header to appliance valve with burner conversion ( Drg No.: TEIND-STD-G-M-9011 )	Nos.	2000	2235.20	18%	2637.54	5275072.00	
A.2.2.2	Tapping connection from Riser or Header to appliance valve ( Drg No.: TEIND-STD-G-M-9011 ) with plugging of Neoprene Cap & Installation of Blind Meter Adapter at inlet of Gas Meter.	Nos.	2400	2235.20	18%	2637.54	6330086.40	
	<b>Note : All other tapping connections from GI are considered under apartment / High Rised Building/ flat Connections.</b>							
<b>A.2.3</b>	<b>Conversion of domestic connection that are Ready for Conversion i.e. Installation already done as per SOR item No.: B.2.1.2 &amp; B.2.2.2 for Individual House Connection/ Apartment / High rise Building / Flats Connections.</b>							
A.2.3.1	Supply, Installtion, testing & commissioning of Steel Reinforced Rubber Hose, Inlet Meter Adapter, Scerw Claimps, Nozzle for burner conversion and others required materials by contractor. (Steel reinforced rubber hose shall be issued as free issue material)	Nos.	1080	201.17	18%	237.38	256371.05	
<b>A.2.4</b>	<b>Riser or Header Installation for Apartment / High rise Building / Flats with a provision of tee at Each Floor / House with HEX plug, if any.</b>							
<b>A.2.4.1</b>	<b>GI Pipes including fitting etc</b>							
A.2.4.1.1	1/2" NB GI pipes including GI fittings and others required materials as specified in tender.	Mtr	11048	156.46	18%	184.62	2039712.69	
A.2.4.1.2	1" NB GI pipes including GI fittings and others required materials as specified in tender.	Mtr	7064	335.28	18%	395.63	2794733.15	
<b>A.2.5</b>	<b>GI Pipes Installation for Domestic/Commercial Connections including GI Fittings</b>						0.00	
A.2.5.1	1/2" NB GI pipes including GI fittings and others required materials as specified in tender.	Mtr	1124	100.58	18%	118.68	133401.27	
A.2.5.2	1" NB GI pipes including GI fittings and others required materials as specified in tender.	Mts	102	223.52	18%	263.75	26902.87	
A.2.5.3	1 1/2" NB GI pipes including GI fittings and others required materials as specified in tender.	Mtr	24	223.52	18%	263.75	6330.09	
	<b>Notes:</b> 1. The above rates are applicable for Domestic/Commercial installation as per tender specification. 2. In case of Domestic Connection, SOR Item No. B.2.5.1 shall be used for payment/recovery, if actual quantity of GI Pipe including required fittings in the connection shall be greater/lesser than 10 mtr for Individual house of above SOR item No.: B.2.1.1 & B.2.1.2 & 5 Mtr. for Apartments/ High rise building / Flats of above SOR item No.: B.2.2.1 & B.2.2.2.							
<b>A.2.6</b>	<b>Additional point with Installation, testing and comissioning of Appliance Valve, Steel Reinforced Rubber Hose and Supply, Installation, testing and comissioning Screw Clamp and others required materials by contractor. (appliance valve and Steel reinforced rubber hose shall be issued as free issue material)</b>							
A.2.6.1	In Kitchen /In Bath room for Geysers	Nos.	864	281.64	18%	332.34	287137.61	
<b>A.2.7</b>	<b>Supply, Installation, Testing &amp; Commissioning of Ball Valves ( Isolation Valve) of Size</b>							



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				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
A.2.7.1	1/2 " NB (free issue material- Only installation,testing and commissioning is in contractor scope)	Nos.	89	111.76	18%	131.88	11737.04	
A.2.7.2	1" NB	Nos.	248	268.22	18%	316.50	78491.90	
A.2.7.3	1 1/2 " NB	Nos.	8	279.4	18%	329.69	2637.54	
<b>A.2.8</b>	<b>Supply and Installation of Transition Fitting of Size</b>							
A.2.8.1	1/2 " NB	Nos.	84	111.76	18%	131.88	11077.65	
A.2.8.2	1" NB	Nos.	86	167.64	18%	197.82	17012.11	
A.2.8.3	1 1/2 " NB	Nos.	8	167.64	18%	197.82	1582.52	
<b>A.2.8</b>	<b>Installation, Testing &amp; Commissioning of Pressure Regulator (supplied by Owner) with supply of Brass Adaptor (Applicable for commercial connection)</b>							
A.2.8.1	Up to 25 SCMH	Nos.	24	558.8	18%	659.38	15825.22	
A.2.8.2	Above 25 SCMH	Nos.	8	558.8	18%	659.38	5275.07	
<b>A.2.9</b>	<b>Installation, Testing &amp; Commissioning of Meter (supplied by Owner) with Supply of Brass Adaptors and Fixture for Meters (Applicable for commercial connection)</b>							
A.2.9.1	Up to G10	Nos.	24	279.4	18%	329.69	7912.61	
A.2.9.2	Above G10	Nos.	8	279.4	18%	329.69	2637.54	
<b>A.2.10</b>	<b>Supply and Installation of RCC Guard</b>							
A.2.10.1	Up to G10	Nos.	190	167.64	18%	197.82	37584.89	
<b>A.2.11</b>	<b>METER BOX Supply &amp; Installation of meter box fabricated from MS angle and wire mesh as per specification including lock and key mechanism, assembly and installation at site, all required material &amp; services for complete and robust meter box shall remain in vendor scope. Refer Document no.: P.012659 D 11077 003.</b>							
A.2.11.0	Fabrication, Supply, Installation of G-1.6 Commercial Meter Box Assembly	Nos.	4	3800	18%	4484.00	17936.00	
A.2.11.1	Fabrication, Supply, Installation of G-4 Commercial Meter Box Assembly	Nos.	4	5683.00	18%	6705.94	26823.76	
A.2.11.2	Fabrication, Supply, Installation of G-6 Commercial Meter Box Assembly	Nos.	8	5688.58	18%	6712.52	53700.20	
A.2.11.3	Fabrication, Supply, Installation of G-10 Commercial Meter Box Assembly	Nos.	12	5966.87	18%	7040.91	84490.88	
A.2.11.4	Fabrication, Supply, Installation of G-16 Commercial Meter Box Assembly	Nos.	4	6534.61	18%	7710.84	30843.36	
A.2.11.5	Fabrication, Supply, Installation of G-25 Commercial Meter Box Assembly	Nos.	4	8523.94	18%	10058.25	40233.00	
<b>PART-B</b>	<b>INDUSTRIAL CONNECTION INSTALLATION</b>							
<b>B.1</b>	<b>STATION MECHANICAL PIPING WORK</b>							
	Complete works of Installation, testing, commissioning & Gas-In of all 1"/2"/3"/4"NB piping, fittings as per PTS - STATION MECHANICAL PIPING WORK (Document no.: P.012659 D 11077 004).							
	"Receiving and taking-over" as defined in the specification, handling, loading, transportation and unloading including owner supplied Various sizes of MRD/DRS from owner's designated stock yards /place(s) of issue/ dump site(s) as well as contractor supplied materials from Owner's designated issue point(s) to work site, Procurement/supply, storage of materials such as station pipes, fittings, flanges, fasteners, Gaskets etc & all materials & consumables other than specifically mentioned as 'Free Issue Material' which is required for successful erection & commissioning, all mechanical works including fabrication, welding, non destructive testing of welds, weld repairs/ retesting, tie-in assembly including radiography of tie-in of assembly, Hooking up with System / facilities, testing and external painting as required & mentioned in relevant GTS/PTS/Drawings. Note : Bolts, nuts, washer, U-clamps, gaskets etc required for piping facilities shall be procured and supplied by the contractor with in the rate quoted. These items shall not be separately measured and paid.							
	Construction, Installation, testing & commissioning of Medium Pressure / low pressure PE 100 pipes as per specification and approved procedures.							
	Piping system 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 works:							
	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.							
	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 piping System, Preparation and submission of As-built drawings 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, Equipment including Crane, if required and other related accessories and as per the instructions of the EIC.							
	Maintaining the completed piping / installation for any defect, failures during defect liability period .							
	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.							
	In case of Wall mounted system, issuing free issue material (Meter & Regulator) from SGL store, transportation of free issue material from SGL store to intended location, fabrication of spool by threaded method / welded method (as per instruction of SGL EIC), conducting relevant NDT tests i.e DPT,MPT, RT of joints, testing and commissioning (as per SGL EIC instruction) shall remain under contractors scope. Except Meter and regulator all other fittings and pipe required to complete the system shall remain under contractor scope. Relevant SOR shall be considered as "Hookup with MRS-1"/1 1/2",2"3" as mentioned in B.1.1 upto B1.4 (depending upon pipe size used in hookup). Painting arrow marking shall remain in contractor scope. All other documents viz as built and other reports shall be prepared by contractor (upto the satisfaction of SGL engineer) and shall be submitted to SGL as per instruction of SGL EIC. NDT reports shall be submitted to SGL before commissioning . All other terms & requirements shall remain in line with above mentioned SOR items and description mentioned under "station mechanical piping work B.1"							
	Any other activities / materials 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. Refere Document no.: P.012659 D 11077 004. (As and When Required)							
B.1.1	Hook-Up with MRS - 1" Inlet Size	Nos.	2	11176	18%	13187.68	26375.36	
B.1.2	Hook-Up with MRS - 1-1/2" Inlet Size	Nos.	2	11176	18%	13187.68	26375.36	
B.1.3	Hook-Up with MRS - 2" Inlet Size	Nos.	2	11176.00	18%	13187.68	26375.36	
B.1.4	Hook-Up with MRS - 3" Inlet Size	Nos.	2	5588.00	18%	6593.84	13187.68	
B.1.5	Hook-Up with MRS - 4" Inlet Size	Nos.	2	5588.00	18%	6593.84	13187.68	
B.1.6	Hook-up with DRS	Nos.	2	11176.00	18%	13187.68	26375.36	
<b>PART-C</b>	<b>GENERAL CIVIL &amp; ASSOCIATED WORKS FOR PE LAYING, PNG - DOMESTIC/COMMERCIAL &amp; NON COMMERCIAL WORKS AT ANY WHERE FOR ABOVE MENTIONED WORK OF PART - A, B &amp; C.</b>							
	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)							
	For detailed scope of work, refer tender PTS - STATION MECHANICAL PIPING WORK (Document no.: P.012659 D 11077 004)							
<b>C.1</b>	<b>Plain Cement Concrete (PCC)</b>							
	Supply of all consumables materials such as cement, sand water, aggregates etc, manpower including carrying out all civil works for PCC as required and as per technical specifications & instruction of Engineer in charge.							
	Rate to include cost of all labour, tools, tackles, equipment, hire charges, Supply of all materials, shuttering, earthwork in excavation and backfilling using approved earth in all conditions etc. with all bye works and sundry works.)							



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C.1.1	Supply and laying Plain Cement Concrete (PCC) for all depths below and up to plinth level in foundations, drains, fillings, non suspended floors, pavements and ramps or any other works etc. including shuttering, tamping, ramming, vibrating, curing etc. all as specified, in any shape, position, thickness and finishing the top surface rough or smooth as specified and directed, all complete for concrete of nominal mix 1:2:4 by mass (1 cement:2 coarse sand: 4 crushed stone aggregates/gravels) with 20mm down size graded crushed stone aggregates/ gravels as specified in specifications and satisfaction to the EIC.	M3	240	335.38	18%	395.75	94979.62	
C.1.2	Supply and laying Plain Cement Concrete (PCC) for all depths below and up to plinth level in foundations, drains, fillings, non suspended floors, pavements and ramps or any other works etc. including shuttering, tamping, ramming, vibrating, curing etc. all as specified, in any shape, position, thickness and finishing the top surface rough or smooth as specified and directed, all complete for concrete of nominal mix 1:4:8 by mass (1 cement:4 coarse sand: 8 crushed stone aggregates/gravels) with 40mm down size graded crushed stone aggregates/ gravels as specified in specifications and satisfaction to the EIC.	M3	4	335.28	18%	395.63	1582.52	
C.2	<b>Reinforced Cement Concrete (RCC)</b>							
C.2.1	Providing and laying reinforced cement of grade M-20 with 8mm or 10 mm steel round bar and 20mm down grade crushed stone aggregate in all types of structures like foundations, pedestals, pedestals 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 Engineer-in-charge. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 43 grade cement including sulphate resistant cement for sub-structures, R/F steel, inserts, bolts, conduits, bitumen, other minor construction materials, shuttering, staging, cartwork in excavation and backfilling using serviceable earth in all conditions, shorting bailing and pumping out water, testing of concrete, curing etc. with all bye works and sundry works.	M3	4	335.28	18%	395.63	1582.52	
C.2.2	Providing and laying reinforced cement of grade M-25 with 8mm or 10 mm OR 12 mm steel round bar and 20mm down grade crushed stone aggregate in all types of structures like foundations, pedestals, pedestals 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 Engineer-in-charge. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 43 grade cement including sulphate resistant cement for sub-structures, R/F steel, inserts, bolts, conduits, bitumen, other minor construction materials, shuttering, staging, cartwork in excavation and backfilling using serviceable earth in all conditions, shorting bailing and pumping out water, testing of concrete, curing etc. with all bye works and sundry works.	M3	4	335.28	18%	395.63	1582.52	
C.3	<b>Concrete Pavement</b>							
C.3.1	Providing and laying reinforced cement concrete of M-20 grade with 8mm steel round bar and 20mm 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 stopes, finishing edges, 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 Engineer-in-charge. (Steel will be 2% of the Total volume) -100mm thick(Type -I)	M2	4	558.8	18%	659.38	2637.54	
C.4	<b>Brick Work</b>							
C.4.1	Supply and laying BRICK MASONRY with bricks of class designation M-7.5 of IS:1077 in cement mortar 1:4 (1 cement: 4 sand) in steps, walls, retaining walls and load bearing structures drains, one or more brick thickness and in any shape (excluding circular/curved brick masonry) in sub and super-structure with all lead, all depths and heights below and above plinth level including the cost of materials,labour,scaffolding/staging, sampling and testing, soaking of bricks, cutting & laying of bricks, Supply recesses, making openings of any shape and size, embedding the fittings & fixtures, curing etc. all complete as per specifications and directed by Engineer-in-charge. All materials including Cement to be supplied by the contractor.	M3	4	335.28	18%	395.63	1582.52	
C.5	<b>Structural Works</b>							
C.5.1	<b>Main Gate</b>							
C.5.1.1	Supplying, fabricating and fixing of single leaf mild Gate of 1.5 mtr in wide and 2.5 mtr in hei with mesh and birbed wire including painting, all consumable materials and labour etc as per drawing, specification and direction of engineer in charge.	Nos.	4	4470.4	18%	5275.07	21100.29	
C.6	<b>Chainlink Fencing</b>							
C.6.1	Supply of all materials, fabrication and erection of chain link fencing 2.5 m high with mesh up to 2 m height and barbed wire fencing complete in all respect including painting as per TS on all MS items, all works as per specification and drawings No.: TEIND-STD-G-C-9024	R. Mtr	60	3352.8	18%	3956.30	237378.24	
<b>Note : Separate rate will be paid for SOR item No.: D.5 &amp; D.6 for Civil work such as PCC, RCC for fixing of Gate as applicable of this SOR.</b>								
C.7	<b>Earthing Pit With Electrode</b>							
C.7.1	Supply installation,testing,Commissioning of the complete earthing system, earth electorodes/ pit with chamber cover, earth main ring, including GI Strip (40 X 5) mm, GI Wire, wire rope and all balance earthing material (Bolts, Nut, Cable Lugs) as per the specification, earthing of electrical equipemnts, instrument panels,field instruments,process equipments and pipes / flanges including all associated civil work with all material and labour as per specification and drawings as per Drawing No.: TEIND-STD-G-E-3001	Nos.	22	2794.00	18%	3296.92	72532.24	
PART-D	<b>AFTER SALSE SERVICES (Document no.: P.012659 D 11077 002, P.012659 D 11077 003)</b>							
D.1	Inst, Test, Com of 20 mm OD MDPE Pipe Open cut or Molling Labour	Mtr	184	143.05	18%	168.80	31059.02	
D.2	Supply of 20 mm OD PE pipe x SDR 9 (3.0 mm)	Mtr	184	27.94	18%	32.97	6066.33	
D.3	<b>Alteration + Modification extra point row house</b>							
D.3.1	Supply of Materials of additional points ( kitchen point or Geyser point) in individual row house on per meter basis including fixing of 1/2" GI pipe, GI fittings viz. Elbow, Tee, Coupling, Nipple, powder coated clamp, Drilling of Hole (in RCC/Brick & Others), Gas tap and rubber tube etc. (Only Supply of Gas tap and rubber tube shall be paid as per unit rates mentioned in SOR. Rest All inclusive of rates) -Material only	Mtr	1000	162.28	18%	191.49	191490.40	
D.3.2	Installation & comissioning of additional points ( kitchen point or Geyser point) in individual row house on per meter basis including fixing of 1/2" GI pipe, GI fittings viz. Elbow, Tee, Coupling, Nipple, powder coated clamp, Drilling of Hole (in RCC/Brick & Others), Gas tap and rubber tube etc. (Only Supply of Gas tap and rubber tube shall be paid as per unit rates mentioned in SOR. Rest All inclusive of rates)- Service only	Mtr	1000	95.00	18%	112.10	112100.00	
D.4	Supply of 1/2" GI Pipe	Mtr	1070	118.47	18%	139.79	149580.22	
D.5	<b>ITC-1/2" GI Pipe Row House</b>							
D.5.1	Installation and Fixing of new 1/2" GI Pipe for alteration / Modification or shifting including fixing of GI Elbow , Coupling, Tee, Nipple, Union, Reducer, clamp etc for individual Row House, Bunglows - labor Rate	Mtr	920	69.29	18%	81.76	75221.22	
D.6	<b>ITC-1/2" GI Pipe High Rise Building</b>							
D.6.1	Installation and Fixing of new 1/2" GI Pipe for alteration / Modification or shifting including fixing of GI Elbow , Coupling, Tee, Nipple, Union, Reducer, clamp etc for High rise Building using PETZEL- labour rates.	Mtr	150	73.76	18%	87.04	13055.52	
D.7	<b>PDC Domestic row house</b>							
D.7.1	Permanent Disconnection of domestic connection in individual row house including dismantling of 1/2 GI pipe, GI fittings, regulator, meter, Ball & appliance valve , Providing of 20 mm PE end cap in PE pipe outside customer premises with electrofusion welding process and return of materials to SGL specified stores with meter and regulator.	NOS	50	352.04	18%	415.41	20770.36	
D.8	<b>PDC Domestic High Rise building</b>							
D.8.1	Permanent Disconnection of domestic connection in High Rise Building (With or Without PETZEL) including dismantling of 1/2 GI pipe, GI fittings, regulator, meter, Ball & appliance valve , Providing end plug in GI riser outside customer premises and return of materials to SGL specified stores with meter and regulator.	NOS	20	134.11	18%	158.25	3165.00	
D.9	<b>FDC Domestic row house</b>							
D.9.1	Force Disconnection of Domestic Customer without PETZEL for each house including Removal of Meter and providing end plug. Rates include transportation of Meter	NOS	200	89.41	18%	105.50	21100.76	
D.10	<b>FDC Domestic High Rise Building</b>							
D.10.1	Force Disconnection of Domestic Customer using PETZEL for each house including Removal of Meter and providing end plug. Rates include Transportation of Meter	NOS	10	89.41	18%	105.50	1055.04	



**SCHEDULE OF RATES PART-2 - PNG DOMESTIC, COMMERCIAL & INDUSTRIAL CONNECTION ALONG WITH AFTER SALSSE SERVICES WITH ALL ASSOCIATED WORKS**



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
D10.2	Re connection of Force Disconnected Domestic Customer for each house including Re fitting Meter (Rates inclusive of transportation of Meter)	NOS	100	89.41	18%	105.50	10550.38	
D.11	Dismantling of 1/2" GI Pipe & Fittings in Individual Row House/Bungalows	MTR	360	55.88	18%	65.94	23737.82	
D.12	Dismantling of 1/2" GI Riser & Fittings-	MTR	40	44.70	18%	52.75	2109.84	
D.13	Re Fitting of 1/2" GI Pipe for including fixing of GI Elbow , Coupling, Tee, Nipple, Union, Reducer, clamp etc	MTR	360	122.94	18%	145.07	52224.91	
D.14	Supply of RCC guard with Painting & Stencilling -Material	NOS	148	167.64	18%	197.82	29276.65	
D.15	Installation of RCC guard with Painting & Stencilling -Labor	NOS	148	33.53	18%	39.57	5855.68	
D.16	Supply of Meter adaptor for Domestic Meter with O Ring - Material	NOS	200	223.52	18%	263.75	52750.72	
D.17	Installation of Brass Meter adaptor for Domestic Meter with O Ring -Labor	NOS	200	44.70	18%	52.75	10549.20	
D.18	Supply of Transition Fitting 1/2" -Material	NOS	148	167.64	18%	197.82	29276.65	
D.19	Installation & Testing of Transition Fitting 1/2" -Labor	NOS	148	44.70	18%	52.75	7806.41	
D.20	Installation & Testing of Gas Tap (1/2" - 6 mm)-Supply as SGL free issued Material	NOS	148	44.70	18%	52.75	7806.41	
D.21	Installation & Testing of Ball Valve,MCV/IV-1/2"-Supply as SGL Free issued Material	NOS	148	44.70	18%	52.75	7806.41	
D.22	AMC of PNG Domestic Connection>5 years-Material	NOS	0	71.53	18%	84.41	0.00	
D.23	AMC of PNG Domestic Connection>5 years - Labor	NOS	0	59.23	18%	69.89	0.00	
D.24	AMC of PNG Domestic Connection<5 years -Material	NOS	0	61.47	18%	72.53	0.00	
D.25	AMC of PNG Domestic Connection<5 years - Labor	NOS	0	52.53	18%	61.99	0.00	
D.26	AMC of Riser Upto G+5 floors -Once a Year Using PETZL -Material	NOS	0	167.64	18%	197.82	0.00	
D.27	AMC of Riser Upto G+5 floors-Once a Year Using PETZL -Labor	NOS	0	111.76	18%	131.88	0.00	
D.28	AMC of Riser each floor above 5th Floor-Once a year using PETZL - Material	NOS	0	167.64	18%	197.82	0.00	
D.29	AMC of Riser each floor above 5th Floor -Once a year using PETZL - Labor	NOS	0	111.76	18%	131.88	0.00	
D.30	Drilling of Hole in Brick wall / plastering	NOS	92	33.53	18%	39.57	3640.02	
D.31	Drilling of Hole in RCC	NOS	10	391.16	18%	461.57	4615.69	
D.32	Drilling of Hole in Others (Tile, Marble, Stone, Wood, Design, Granite, etc.)	NOS	10	391.16	18%	461.57	4615.69	
D.33	Supply of PVC Sleeve on GI Pipe with Insulation- Material	MTR	92	22.35	18%	26.37	2426.32	
D.34	Installation and Fixing of PVC Sleeve on GI Pipe with Insulation - Labor	MTR	92	11.18	18%	13.19	1213.70	
D.35	NG Conversion charges for 2 burner	NOS	90	55.88	18%	65.94	5934.46	
D.36	NG Conversion charges up to 4 burner	NOS	80	89.41	18%	105.50	8440.30	
D.37	NG Conversion charges for Oven / Hot plate or any others	NOS	15	89.41	18%	105.50	1582.56	
D.38	Installation of Rubber Hose ( 1 mtrs length as per IS 9573, Type II, Suraksha Mark)-SGL Free Issued Suresh Rubber Hose	NOS	185	44.70	18%	52.75	9758.01	
D.39	Supply & Installation of Reducer 32 X 20 mm	NOS	10	100.58	18%	118.68	1186.84	
D.40	Supply & Installation of Coupler 32 mm	NOS	10	67.06	18%	79.13	791.31	
D.41	Supply & Installation of Coupler 20 mm	NOS	203.5	61.47	18%	72.53	14760.79	
D.42	Supply & Installation of Equal Tee 32 mm	NOS	5	184.40	18%	217.59	1087.96	
D.43	Supply & Installation of Equal Tee 20 mm	NOS	8	145.29	18%	171.44	1371.54	
D.44	Supply & Installation of End Cap 32 mm	NOS	6	122.94	18%	145.07	870.42	
D.45	Supply & Installation of End Cap 20 mm	NOS	48	111.76	18%	131.88	6330.09	
D.46	Supply & Installation of Saddle 32 x 20 mm	NOS	6	335.28	18%	395.63	2373.78	
D.47	Supply, Installation and Fixing GI Fittings of 1/2" Elbow	NOS	552	27.94	18%	32.97	18199.00	
D.48	Supply, Installation and Fixing GI Fittings of 1/2" Hex Nipple	NOS	6	27.94	18%	32.97	197.82	
D.49	Supply, Installation and Fixing GI Fittings of 1/2" NB Barrel Nipple	NOS	368	27.94	18%	32.97	12132.67	
D.50	Supply, Installation and Fixing GI Fittings of 1/2" Coupling	NOS	184	27.94	18%	32.97	6066.33	
D.51	Supply, Installation and Fixing GI Fittings of 1/2" End Plug	NOS	386	27.94	18%	32.97	12726.11	
D.52	Supply, Installation and Fixing GI Fittings of 1/2" hex Plug	NOS	10	27.94	18%	32.97	329.69	
D.53	Supply, Installation and Fixing GI fittings 1/2" Union	NOS	10	67.06	18%	79.13	791.31	
D.54	Supply, Installation and Fixing GI Fittings of 1 " x 1/2" Reducer	NOS	4	72.64	18%	85.72	342.86	
D.55	Supply, Installation and Fixing GI Fittings of 1 " x 1/2" Tee	NOS	4	78.23	18%	92.31	369.25	
D.56	Supply, Installation and Fixing GI Fittings of 1/2" Tee	NOS	80	39.12	18%	46.16	3692.93	
D.57	Supply& Installation of 3/4" x 1/2" Bush	NOS	20	78.23	18%	92.31	1846.23	
D.58	Supply& Installation of 3/4" x 1" Bush	NOS	20	100.58	18%	118.68	2373.69	
D.59	Supply & Installation of Blind Meter Adaptor- GI ( Temporary Disconnection of Dom. Customers)	NOS	180	89.41	18%	105.50	18990.68	
D.60	Supply & Installation of domestic Regulator Inlet adaptor-Brass	NOS	30	167.64	18%	197.82	5934.46	
D.61	Supply & Installation of domestic Regulator outlet adaptor-Brass	NOS	30	167.64	18%	197.82	5934.46	
D.62	Supply & Installation of 1/2" GI Powder Coated Clamp with screw	NOS	736	16.76	18%	19.78	14555.72	
D.63	Supply & Installation of Rubber Tube Clamp	NOS	370	8.94	18%	10.55	3903.20	
D.64	Supply & Installation of Burner Jet ( 110 mm)	NOS	170	7.82	18%	9.23	1568.69	
D.65	Supply & Installation of Burner Jet ( 125 mm)	NOS	330	7.82	18%	9.23	3045.11	
D.66	Supply & Installation of " O " Ring for domestic meter / regulator	NOS	985	5.59	18%	6.60	6497.26	
D.67	Supply & Installation of 1/2" Union O Ring or Seal	NOS	10	5.59	18%	6.60	65.96	
D.68	Supply & Installation of Warning Tape / Anti- Rodent Tape as per Owner Specification	MTR	184	16.76	18%	19.78	3638.93	
D.69	Temporary Disconnection of PNG Domestic Customer with leak test of entire installation	NOS	400	89.41	18%	105.50	42201.52	
D.70	Reconnection of PNG Domestic Customer of PNG Domestic Customer with leak test of entire installation	NOS	1080	89.41	18%	105.50	113944.10	
D.71	PNG Domestic Meter Check Survey (as per list provided by EIC) Includes - To check meter running status - Entire Leak test of the installation - Check for Meter tampering/Meter Slow/Meter Fast/Meter Stop - All supply items shall be paid as per unit rates mentioned in SOR. - No separate rates shall be paid for House Lock Cases	NOS	300	48.06	18%	56.71	17013.24	
D.72	Replacement of Domestic Meters Includes - Issue of New Meter and replacing it with the old meter (due to Meter Stop, Meter Slow or Fast, Meter Tampering, Display Not proper, Leakage from Meter Body). - Leak Test of entire installation - Issue and returning the meters to the SGL Stores - All supply items shall be paid as per unit rates mentioned in SOR. - No Separate rates shall be paid for House Lock/survey cases	NOS	100	108.41	18%	127.92	12792.38	
<b>TOTAL AMOUNT IN Rs. INCLUSIVE OF GST</b>							<b>30,669,286.55</b>	

**NOTE:**

- 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.
- The SOR items would be operatable as per job requirement and quantities may vary on ± sides.
- The general activities related to laying of PE pipe, installation of GI Pipe for domestic connection or customers as defined in tender document.
- 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.
- 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.
- The quantities of individual item can varied as per site requirement. The payment will be made as per actual certified measurement at site.
- 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.
- 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.
- 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
- Price bid evaluation will be carried out inclusive of all taxes & duties i.e. inclusive of GST etc.
- The quantities mentioned above are for Two Years.