

		SCHEDULE OF RATES FOR PE/PNG O&M SERVICES						Doc. No.	MAT-F-11
TENDER DESCRIPTION		PE-PNG OPERATIONS & MAINTENANCE (O&M) ACTIVITY	NO OF O&M SET UP PLANNED						2
TENDER DURATION		2 Year	DOMESTIC CONN COMMISSIONED (NOS)						2000
GA / STATE		Ferozepur-Fardkot-Sri Mukhar Sahib / Punjab	PE PIPELINE NETWORK COMMISSIONED (KM)						200
CLUSTER		Cluster-01 Jaitu Kotkapura and Fardkot							
DOCUMENT NO		GGL/TS/PE-PNG/SERVICE/PE-PNG O&M/SOR FORMAT							
Sr No.	SAP Code	DESCRIPTION OF WORK	Unit Description	Unit	Base Rate	Year 1	Year 2	Total Quantity	Total Value
<b>Section A</b>		<b>Team Base</b>							
		Contractor Scope Deployment of trained, competent Team with smart mobile phone with Internet connection in shift Operation for performing activities as below: •Emergency Response and Management •PE network damage response and repair •Steel Network damage first response •Repair and maintenance of AG/UG gas installation •Customer Complaint & Request / Service Management •Physical execution at customer premise •Round the clock (24x7x365) monitoring and control of O&M •Report generation, Documentation and Records •General Administration •Assurance of Statutory and Legal compliance related to contract •Maintaining Attendance recorders (Machine) •Preventive maintenance of PE network & PNG conn as per the AOMP including Dewatering activity whenever required •Transportation of Section A manpower All other activities as per the instruction of EIC which is not mentioned above but included in technical scope Note:- GGL at own discretion may utilize these resources based on need and availability.							
1.1	302610	Indicative resources in Team Shift - 24X7 Engineer-1 + Technician cum PE welder cum plumber-1 + 2 Civil labourers cum helper Cost includes 24*7 round the clock operation, Uniform for Team members / PPE's / Welfare charges and other expenses	LS cost/Month	MON	235,113.19	12.00	12.00	24.00	5,642,716.59
1.2	302611	Indicative resources in Team Shift - 16 hourX7 Engineer-1 + Technician cum PE welder cum plumber-1 + 2 Civil labourers cum helper Cost includes 16 hours*7 days, Uniform for Team members / PPE's / Welfare charges and other expenses	LS cost/Month	MON	156,741.90	12.00	12.00	24.00	3,761,805.68
1.3	302612	Indicative resources in Team Shift - 8 hourX7 Engineer-1 + Technician cum PE welder cum plumber-1 + 2 Civil labourers cum helper Cost includes 8 hours*7 days, Uniform for Team members / PPE's / Welfare charges and other expenses	LS cost/Month	MON	78,366.59	1.00	1.00	2.00	156,733.17
1.4	302730	Team - On call basis (1 shift i.e., 8 hours) Technician cum PE welder cum plumber-1 + 2 Civil labourers cum helper Cost includes Uniform for Team members / PPE's / Welfare charges and other expenses (Minimum payment of 4 hrs need to be paid)	LS cost/day	DAY	1,744.97	1.00	1.00	2.00	3,489.95
2		Deployment of Emergency vehicle with Driver: 4-Wheeler/3-Wheeler •Emergency Response Vehicle (ERV) Vehicle shall not be older than 3 years from the date of the vehicle registration OR shall not be used for more than 1.5 lakh kms whichever is earlier, subject to availability of valid road worthiness certificate. This condition is applicable throughout the contract period. Contractor to ensure this requirement at the time of deployment of vehicle to avoid change of vehicle during contract period. • Vehicle shall be as per GGL specification with Driver • Vehicle Including all RTO taxes, Insurance, repair, fuel consumption, maintenance and monthly services, tools, tackles and minimum inventory etc • GGL Scope: Supply of GGL branding / design							
2.1	302619	Tata 207 or Equivalent Vehicle (with driver and 5 seater) - For 3000 km	Per Vehicle / Month	MON	113,622.20	12.00	12.00	24.00	2,726,932.82
2.2	302620	Chhota Hathi or Equivalent Vehicle (with driver)- Diesel & petrol vehicle - For 2000 km	Per Vehicle / Month	MON	93,283.20	1.00	1.00	2.00	186,566.40
2.3	302621	Three Wheeler (with driver)- Diesel & petrol vehicle - For 1500 km	Per Vehicle / Month	MON	76,093.20	1.00	1.00	2.00	152,186.40
2.4	302731	Two Wheeler - For 1500 km	Per Vehicle / Month	MON	6,232.33	36.00	36.00	72.00	448,728.00
2.5	303459	Chhota Hathi or Equivalent Vehicle (with driver)- CNG vehicle - For 2000 km	Per Vehicle / Month	MON	84,031.87	12.00	12.00	24.00	2,016,764.82
2.6	303460	Three Wheeler (with driver)- CNG vehicle - For 1500 km	Per Vehicle / Month	MON	70,421.42	1.00	1.00	2.00	140,842.85
2.7	302622	Fuel charges beyond stipulated KM (For 2.1 item only)	Per KM	KM	8.17	6,000.00	6,000.00	12,000.00	98,040.00
2.8	302623	Fuel charges beyond stipulated KM (For 2.2 & 2.3 item only)	Per KM	KM	6.53	1.00	1.00	2.00	13.06
2.9	101342	Fuel charges beyond stipulated KM (For 2.4 item only)	Per KM	KM	2.18	12,000.00	12,000.00	24,000.00	52,320.00
2.10	303461	CNG Fuel charges beyond stipulated KM (For 2.5 & 2.6 item only)	Per KM	KM	4.15	1.00	1.00	2.00	8.30
3	302614	Additional Manpower on Need Basis (Extra SOR) - Unitary price to be quoted by contractor O&M In-charge (Skilled) •RE with 2 year CGD experience / DE with 3 year CGD Experience •GGL in charge will decide the requirement of O&M In charge. •Cost includes Uniform / PPE's / Welfare charges and other expenses	Lumsum Per person/month	MON	27,234.66	12.00	12.00	24.00	653,631.74
3.2		Engineer (Skilled) •RE with 1 year CGD experience / DE with 2 year CGD Experience •Cost includes Uniform / PPE's / Welfare charges and other expenses	Lumsum Per person/month	MON	21,805.90	24.00	24.00	48.00	1,046,683.29
3.3	302616	Office Assistant - Commercial / Administration (Skilled) •Any Graduate with 2 Year Experience or 12th Pass with 5 Year Experience •Cost includes Uniform / PPE's / Welfare charges and other expenses	Lumsum Per person/month	MON	16,959.25	24.00	24.00	48.00	814,043.86
3.4	302617	Technician cum PE welder cum plumber (Semi Skilled) Cost includes Uniform for Team members / PPE's / Welfare charges and other expenses	Lumsum Per person/month	MON	15,796.91	24.00	24.00	48.00	758,251.90
3.5	302618	Helper (Un Skilled) Cost includes Uniform for Team members / PPE's / Welfare charges and other expenses	Lumsum Per person/month	MON	14,786.19	24.00	24.00	48.00	709,737.14
3.6	400566	Civil labourer (Un Skilled) Cost includes Uniform for Team members / PPE's / Welfare charges and other expenses	Lumsum Per person/month	MON	14,786.19	1.00	1.00	2.00	29,572.38
4	906464	Deployment of Technician / Patrolman along with Smart Mobile phone & Two-Wheeler (Motor Cycle): •At the time of deployment vehicle shall not be older than one year from the date of first registration & Same vehicle can be deployed up to 3 years from the date of deployment or 50000 kms whichever is earlier -•Vehicle charges are including Fuel charges •Including Uniform / PPE's / Wrench spanners/ Welfare charges and other expenses •Including all RTO taxes, Insurance, repair, maintenance and monthly services •1500 kms per month and extra km charges as per above line item 2.7	Per person/month	MON	22,545.91	36.00	36.00	72.00	1,623,305.84
5	100644	Base station / Office for emergency response team : •Preferably Ground Floor and not beyond First Floor •Shall be selected jointly by GGL and contractor •Approximately minimum 500 to 1000 Sq. Feet carpet area •Office with basic seating arrangement and wash room facility •Uninterrupted communication facility between GGL Control Room & Emergency Team on 24x7 basis •Emergency Response & Post Commissioning Services (24x7x365)	Per month	MON	Reimbursement as per actuals	24.00	24.00	48.00	48.00
<b>Section B</b>		<b>O&amp;M Activities (Activities to be performed by manpower other than the manpower of section A)</b>							

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6		Complete job of repairing the PE damage / leakage of existing underground pipeline. Complete job of repairing the leakage/damage of existing buried PE pipeline. The job includes mobilization of team along with tools and tackles mentioned in "Annexure", cordoning safeguard the site as per EIC instruction, traffic diversion if any, coordination with external agencies/authorities if any, public announcement in gas supply affected area for customer information, excavation of pit to locate the leakage/damage, dewatering, cleaning of pit, squeezing, electrofusion jointing, resume gas supply, soap solution test, backfilling and public announcement after gas resumption to affected customers. The scope covers required tools and tackles, isolation of network or squeezing including the equipment's, manpower that are required for rectification of leakage/repair shall be in scope of contractor.  Contractor supplied EF Fittings and 20 mm PE Pipe used during repairing shall be paid extra as per Section-C							
6.1	103016	90mm and above PE pipe dia.	EA	EA	930.68	1.00	1.00	2.00	1,861.36
6.2	103017	20mm to 63 mm PE pipe dia.	EA	EA	731.41	1.00	1.00	2.00	1,462.82
7		PE PIPELINE LAYING (Maximum up to 500 Meter Length) Receiving, handling, loading, transportation and unloading including owner supplied PE pipes from owner's designated stock yards as well as contractor supplied materials like PE-100 Electro fusion Fittings, 20 mm PE pipes, Warning Mats, to Contractor's own stock-yards/ work-sites. Proper storing, stacking, identification, providing security, and insurance cover for the materials, Liaisoning with Landowning agencies / statutory authorities, temporary restoration of the abandoned trial pits as required (excavation to depth as per specification) to original condition, barricading the work area as per the procedures & drawings provided in the tender and as per the directions of EIC / site-in charge. Trenching to the required depth in all types of terrain, uncoiling / stringing of pipes / dewatering / dumping, jointing of the pipe ends/ fittings/ valves by qualified personnel, using bar coded electro fusion techniques as per specification.  Rates includes excavation as per tender specification and all contractor supplied material i.e. EF Fitting, Warning tape etc. other than GGL free issue material as mentioned in tender document in all types of terrain excluding rocky terrain. Rate of Rock breaking / RCC breaking / PCC breaking shall be paid as per separate SOR. Supply of 20 mm PE pipe shall be paid extra by GGL as per Section-C and 20 mm EF fittings shall be included in the PE laying rates.							

7.1	103020	Supply & Inst, Test, Com of 160 mm OD/SDR 17.6	M	M	487.16	1.00	1.00	2.00	974.32
7.2	103021	Supply & Inst, Test, Com of 90 mm, 110mm & 125mm OD/SDR 17.6	M	M	329.76	250.00	250.00	500.00	164,878.58
7.3	103022	Supply & Inst, Test, Com of 32 mm & 63mm OD, SDR 11 & 17.6	M	M	293.74	500.00	500.00	1,000.00	293,739.71
7.4	103023	Supply & Inst, Test, Com of 20 mm OD/SDR 9	M	M	260.91	300.00	300.00	600.00	156,544.93
8		Manual Boring							
8.1	100763	Trenchless crossing for any pipe dia. Manual Boring normal soil	M	M	598.13	250.00	500.00	750.00	448,599.29
8A		PIPELINE LAYING USING HORIZONTAL DIRECTIONAL DRILLING TECHNIQUE IN NORMAL SOIL							
		Survey of the under Ground utilities, submission of profile for approval, pre-testing of Pipe, execution of the work as per the standard practice including excavation of the pits, Jointing and insertion of the carrier Pipe, subsequent backfilling, compaction, submission of as built graphs as per Specification and the Instruction of EIC/ Site Engineer of Owner.							
8A.1	303462 - 303463	For Pipe dia. 32 mm OD and 63 mm OD	M	M	529.00	500.00	500.00	1,000.00	529,000.00
8A.2	303464 - 303465	For Pipe dia. 90 mm OD and 125 mm OD	M	M	629.00	500.00	500.00	1,000.00	629,000.00
8A.3	303466	For Pipe dia. 160 mm OD	M	M	679.00	1.00	1.00	2.00	1,358.00
8B		PIPELINE LAYING USING HORIZONTAL DIRECTIONAL DRILLING TECHNIQUE IN HARD ROCK STRATA							
		Survey of the under Ground utilities, submission of profile for approval, pre-testing of Pipe, execution of the work as per the standard practice including excavation of the pits, Jointing and insertion of the carrier Pipe, subsequent backfilling, compaction, submission of as built graphs as per Specification and the Instruction of EIC/ Site Engineer of Owner.							
8B.1	303467 - 303468	For Pipe dia. 32 mm OD and 63 mm OD	M	M	3,085.00	1.00	1.00	2.00	6,170.00
8B.2	303469 - 303470	For Pipe dia. 90 mm OD and 125 mm OD	M	M	3,285.00	1.00	1.00	2.00	6,570.00
8B.3	303471	For Pipe dia. 160 mm OD	M	M	3,585.00	1.00	1.00	2.00	7,170.00
9		Annual Maintenance of PNG connection							
9.1	302626	DOMESTIC CONNECTIONS - Leakage testing (LDT) - Leakage testing (LPT with digital manometer) - Clamping, Paint Touch up - Check Meter working in gas flow condition - Leakage identification & rectification (alteration charges will be paid as per Alteration Line item) - Checking of RCC guard, sand filling and cementing & Sealing - Checking and reporting of un-authorized extension of gas pipeline and Rubber Tube / other anomalies - Checking of Service line, Meter or Regulator "O" ring or Adaptor - Replacement of Suraksha hose with clamp in case of damaged, expired or to be expire in next 11 Month etc for all points. - Replacement of o-ring for arresting the leakage from all type of adaptor Collect and Update customer contact details - mobile numbers (primary and secondary) and email id (Contractor supplied materials rate to be paid as per Section C- Except sand, cement, paint & consumables)	Per Connection	EA	96.32	2,000.00	4,000.00	6,000.00	577,940.00
9.2	302627	<del>COMMERCIAL / NON COMMERCIAL / NDE/ INDUSTRIAL CONN HAVING 50 MMETER CONNECTIONS. Up to GGL battery limit</del> - Leakage testing (LDT) - Leakage testing (LPT with digital manometer) - Clamping, Paint Touch up - Check Meter working in gas flow condition - Leakage identification & rectification (alteration charges will be paid as per Alteration Line item) - Checking of RCC guard, sand filling and cementing - Checking and reporting of un-authorized extension of gas pipeline and Rubber Tube - Checking of Service line, Meter or Regulator "O" ring or Adaptor - Replacement of Suraksha hose in case of damaged, expired for all Points etc. with clamp and o-ring for arresting the leakage from adaptor - Check Meter/Adaptor Seal and replace wherever required and Update seal Numbers - Collect and Update customer contact details - mobile numbers (primary and secondary) and email id (Material will be supplied as per Section C- except sand, cement, paint and consumables)	Per Connection	EA	111.90	10.00	30.00	40.00	4,475.87
10		Maintenance of Vertical GI riser (Threaded / Welded) including approach - Leakage testing (LDT) - Leakage testing (LPT with digital manometer) - Clamping, Colour touchup - Leakage identification & rectification (alteration charges will be paid as per Alteration Line item) - Checking of RCC guard, sand filling and cementing (if reqd) - Material will be supplied as per Section C- except sand, cement, colour touchup and consumables) - Overall painting of GI and Fittings rates to be paid separately as per section C.							
10.1	302628	1/2" dia GI Riser	Per Riser	EA	401.14	50.00	100.00	150.00	60,170.38
10.2	302629	1" and above dia GI / MS Riser	Per Riser	EA	608.59	25.00	50.00	75.00	45,643.94
11		Maintenance of Horizontal GI header (Threaded / Welded) including approach - Leakage testing (LDT) - Leakage testing (LPT with digital manometer) - Clamping, Colour touchup - Leakage identification & rectification (alteration charges will be paid as per Alteration Line item) - Checking of RCC guard, sand filling and cementing (if reqd) - Material will be supplied as per Section C- except sand, cement, colour touchup and consumables) - Overall painting of GI and Fittings rates to be paid separately as per section C.							
11.1	302630	Header Up to 2" dia	Per Header	EA	274.19	1.00	1.00	2.00	548.38
12	302634	Leak Detection test and Identification on Gas network GTL and Gas surveyor instrument are in scope of GGL	Per KM	KM	183.50	250.00	500.00	750.00	137,625.00
13		Replacement of equipment/fittings.							
13.1	101556	Replacement of Rubber Tube (Suraksha Hose) including supply and installation of hose clamp (No extra material cost to be paid to contractor)	EA	EA	45.88	500.00	1,000.00	1,500.00	68,812.50
13.2	103048	Replacement of GGL issued Dom., Com., Ind. Regulator/Diaphragm meter, Brass ball valve/Gas tap, Adaptor seal (Contractor supplied materials rate to be paid as per Section C)	EA	EA	122.33	250.00	500.00	750.00	91,750.00
13.3	103049	Replacement of Contractor supplied transition fittings or RCC guard or both (Contractor supplied materials rate to be paid as per Section C)	EA	EA	163.11	250.00	500.00	750.00	122,333.33

13.4	103050	Replacement of Industrial / Commercial Meter- RPD/PD (Contractor supplied materials rate to be paid as per Section C)	EA	EA	234.00	10.00	30.00	40.00	9,360.00
13.5	103750	Replacement of corrugated Flexible SS Metal Hose Assembly (Anaconda) (Contractor supplied materials rate to be paid as per Section C)	EA	EA	490.00	1.00	1.00	2.00	980.00
14		ALTERATION / MODIFICATION / ADDITIONAL POINT IN DOMESTIC INCLUDING INSTALLATION OF RISER/ HEADER/ APPROACH & COMMERCIAL CONNECTIONS (Contractor supplied materials rate to be paid as per Section-C)							
14.1		MODIFICATION / ALTERATION OF EXISTING GI PIPE INSTALLATION							
14.1.1	103054	INSTALLATION / REFITTING OF 1/2" GI PIPE & GI MATERIALS SOR RATE TO BE PAID FOR EITHER ACTUAL OR MINIMUM 3 M LENGTH FOR SERVICES WHICHEVER IS HIGHER	M	M	85.10	2,000.00	4,000.00	6,000.00	510,577.20
14.1.2	103055	INSTALLATION / REFITTING OF 1" GI PIPE & GI MATERIALS SOR RATE TO BE PAID FOR EITHER ACTUAL OR MINIMUM 3 M LENGTH FOR SERVICES WHICHEVER IS HIGHER	M	M	92.12	100.00	200.00	300.00	27,637.34
14.1.3	103058	Dismantling of 1/2" GI Pipe, 1" GI Pipe, 12mm Cu Pipe - SOR rate to be paid for either actual or minimum 3 m length whichever is higher.	M	M	23.40	2,000.00	4,000.00	6,000.00	140,400.00
14.1.4	103059	Dismantling of 1/2" GI Riser, 1" GI Riser - SOR rate to be paid for either actual or minimum 3 m length whichever is higher.	M	M	32.18	300.00	500.00	800.00	25,740.00
14.1.5	101563	Installation of PVC Sleeve on GI Pipe with Insulation	M	M	61.17	500.00	500.00	1,000.00	61,166.67
14.1.6	101564	Installation of GI Pipeline Protection Clamp from door or window.	EA	EA	61.17	500.00	500.00	1,000.00	61,166.67
14.1.7	103057	Installation of only Rubber Tube Clamp	EA	EA	16.31	1,000.00	2,000.00	3,000.00	48,933.33
14.1.8	101575	Installation of 1/2" new GI Powder Coated Clamp	EA	EA	16.31	1,000.00	2,000.00	3,000.00	48,933.33
14.1.9	101576	Installation of 1" new GI Powder Coated Clamp	EA	EA	16.31	50.00	50.00	100.00	1,631.11
14.1.10	101577	Installation of Burner Jet	EA	EA	40.78	200.00	500.00	700.00	28,544.44
14.2		MODIFICATION / ALTERATION OF ISLAND KITCHEN INSTALLATION							
14.2.1	303510	NEW ISLAND KITCHEN INSTALLATION IN EXISTING CONNECTION Supply and Installation of SS tube for Island Kitchen upto 3 running meter including installation of SS fittings, UPVC condute pipe and consumables as per technical scope of work in tender document	EA	EA	9,600.00	2.00	2.00	4.00	38,400.00
14.2.2	303511	NEW ISLAND KITCHEN INSTALLATION IN EXISTING CONNECTION Supply and Installation of SS tube for Island Kitchen over and above 3 running meter including installation of SS fittings, UPVC condute pipe and consumables as per technical scope of work in tender document	M	M	990.00	1.00	1.00	2.00	1,980.00
14.2.3	303512	MODIFICATION / EXTENSION IN ISLAND KITCHEN Installation/Refitting of 1/2" SS tube for island kitchen installation including installation of SS fittings, Clamps & other consumables as applicable - SOR rate to be paid for either actual or minimum 3 m length whichever is higher.	M	M	90.00	1.00	1.00	2.00	180.00
14.2.4	303513	MODIFICATION / EXTENSION IN ISLAND KITCHEN Dismantling of SS tube 1/2" at Island kitchen - SOR rate to be paid for either actual or minimum 3 m length whichever is higher.	M	M	25.00	1.00	1.00	2.00	50.00
14.3		Drilling of through Hole with Drilling Machine							
14.3.1	101578	Drilling of Hole in Brick / plastering	EA	EA	50.73	100.00	200.00	300.00	15,219.74
14.4		Modification of RCC Guard (Including Supply of sand filling and cementing)							
14.4.1	101581	Modification of RCC Guard with PE Squeezing	EA	EA	215.97	200.00	500.00	700.00	151,179.53
14.4.2	101582	Modification of RCC Guard without PE Squeezing	EA	EA	146.06	100.00	250.00	350.00	51,120.88
14.5		Conversion of Burner (Contractor supplied materials rate to be paid as per Section C)							
14.5.1	100385	NG Conversion charges for 2 burner	EA	EA	61.17	250.00	500.00	750.00	45,875.00
14.5.2	103060	NG Conversion charges for beyond 2 burner	EA	EA	73.40	500.00	500.00	1,000.00	73,400.00
15		General Civil work							
15.1	302640	Excavation work in any soil	M3	M3	274.74	100.00	100.00	200.00	54,948.97
15.2	103063	Supply and Laying - PCC 1:4:8 (M15) (Section C rates are not applicable)	M3	M3	4,398.38	50.00	100.00	150.00	699,757.00
15.3	103064	Supply and Laying - RCC 1:1.5:3 (M20) including steel reinforcement, shuttering and sourcing (Section C rates are not applicable)	M3	M3	8,564.20	50.00	100.00	150.00	1,234,630.00
15.4	103065	Supply and Construction - Brick work including In-side / Out-side plaster work (Section C rates are not applicable)	M3	M3	6,254.95	50.00	100.00	150.00	938,342.50
15.5	302641	White washing - including supply of paint and stencilling on top cover (Section C rates are not applicable)	M2	M2	791.50	50.00	100.00	150.00	118,725.00
15.6	906831	Breaking of Brick masonry	M3	M3	1,086.45	50.00	100.00	150.00	162,967.50
15.7	302651	Breaking of PCC	M3	M3	1,239.60	50.00	100.00	150.00	185,940.00
15.8	906830	Breaking of RCC	M3	M3	2,928.10	50.00	100.00	150.00	439,215.00
15.9	101076	Breaking of Rock	M3	M3	1,636.36	1.00	1.00	2.00	3,272.73
15.10	302733	Removal & Re-fixing of Existing Paver Blocks	M2	M2	910.10	250.00	750.00	1,000.00	910,100.00
15.11	302642	Testing & Flushing of pipeline (any size) including supply of Nitrogen (Contractor supplied materials rate to be paid as per Section C)	M	M	77.35	500.00	1,000.00	1,500.00	116,022.10
16		Construction Work							
16.1		Installation and Commissioning of SR Module including Civil work (PE EF fittings rates are applicable as per Section C)							
16.1.1	302633	Size - up to B-65	EA	EA	7,286.88	5.00	10.00	15.00	109,303.21
16.1.2	302634	Size - B-100 and above	EA	EA	12,503.93	5.00	10.00	15.00	187,558.94
16.2		Dismantling of existing equipment from charged network (Contractor supplied materials rate to be paid as per Section C)							
16.2.1	101597	SR Module of any size including - PE pipeline Disconnection / Connectivity - Demolition of Civil foundation, transportation of SR module to GGL store	EA	EA	4,819.08	10.00	20.00	30.00	144,572.28
16.2.2	103109	MRS/IMS of any size including - PE Pipeline Disconnection / Connectivity - Demolition of Civil foundation (If any) Transportation of IMS to GGL store	EA	EA	5,013.45	2.00	4.00	6.00	30,080.70
16.3		Painting / Repainting of PRI and connecting pipeline Including scraping, cleaning, stencilling and supply of paint							
16.3.1	302635	DRS / DPRC / CPRC incl piping & equipment (Any size)	EA	EA	4,401.47	10.00	15.00	25.00	110,036.75
16.3.2	302636	IMS / MRS incl piping & equipment (Any size)	EA	EA	1,265.20	2.00	5.00	7.00	8,856.41
16.3.3	302637	Valve / Service Regulators (Any size)	EA	EA	648.37	50.00	75.00	125.00	81,046.77
16.3.4	901306	Aboveground Pipeline (Any size)	M2	M2	440.65	100.00	200.00	300.00	132,195.00
16.3.5	302638	Canopy	M2	M2	440.65	1.00	1.00	2.00	881.30
16.3.6	101629	White washing of Valve chamber include painting and stencilling on top cover	EA	EA	1,899.60	100.00	200.00	300.00	569,880.00
16.4		Supply and Installation of							
16.4.1	103138	S&I CONCRETE BOLLARD 50MM	EA	EA	1,102.91	200.00	300.00	500.00	551,453.10
16.4.2	302668	S&I PIPE RCC (H)IME HALF ROUND	EA	EA	262.80	100.00	200.00	300.00	78,840.00
16.4.3	302669	S&I PIPE RCC (H)IME STDIA 2mm	EA	EA	735.30	50.00	100.00	150.00	110,295.00
16.5		Supply and Installation of PE Valve Chamber (Cost of PE EF fittings are applicable as per Section C)							
16.5.1	101595	S&I CONST. VALVE CHAMBER, PRECAST, 0.6x0.6M	EA	EA	9,000.00	5.00	10.00	15.00	135,000.00
16.5.2	302639	S&I CONSTRUCT. VC BRICK, 0.8X0.8MTR	EA	EA	25,492.57	5.00	10.00	15.00	352,388.60
16.5.3	1031315	S&I CONSTRUCT. VC BRICK, 1000MMMX1000MM	EA	EA	29,499.18	3.00	6.00	9.00	265,492.65
16.5.4	103076	Supply and Installation of Valve chamber sleeper - all sizes	EA	EA	2,505.30	50.00	100.00	150.00	375,795.00
16.5.5	303473	S&I CONST. VALVE CHAMBER, BRICK WORK, 0.6x0.6M	EA	EA	9,826.00	5.00	10.00	15.00	147,390.00

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16.6	101596	Dismantling of existing Valve Chamber of any size -including PE pipeline connectivity -demolition of Civil foundation, transportation of PE valve assembly to GGL store/ Directed by EJC.	EA	EA	5,033.75	5.00	10.00	15.00	75,906.22
17		Disconnection (Contractor supplied materials rate to be paid as per Section C)							
17.1	101616	Temporary Disconnection for Wall mounted Meter connection (all type of customer)	EA	EA	138.50	250.00	500.00	750.00	103,875.00
17.2	101617	Temporary Disconnection for Wall mounted Meter connection from TF (all type of customer)	EA	EA	281.28	200.00	400.00	600.00	168,768.75
17.3	101618	Permanent/Temporary Disconnection for Wall mounted Meter connection from PE (all type of customer)	EA	EA	294.36	200.00	400.00	600.00	176,618.85
17.4	101619	Reconnection for Wall mounted Meter connection (all type of customer)	EA	EA	207.75	200.00	400.00	600.00	124,650.00
17.5	101620	Force Disconnection without Petzel for each house	EA	EA	278.85	500.00	1,000.00	1,500.00	418,274.25
17.6	101622	Force Disconnection using Petzel for each house	EA	EA	415.50	100.00	100.00	200.00	83,100.00
17.7	102139	Installation of hollow hex plug	EA	EA	47.49	200.00	400.00	600.00	28,491.43
18		Miscellaneous/Hiring of Equipment (Contractor supplied materials rate to be paid as per Section C)							
18.1	101325	Installation Gas tap and GGL supplied rubber tube	EA	EA	52.43	1,000.00	2,000.00	3,000.00	157,285.71
18.2	101583	INST.ROUTE MARKER,RCC,INCL PCC FOUNDATION - (PCC Rates are included)	EA	EA	255.90	500.00	1,000.00	1,500.00	383,853.21
18.3	101584	INST.ROUTE MARKER,MS,AERIAL	EA	EA	482.66	1.00	1.00	2.00	965.33
18.4	101585	INST.ROUTE MARKER,MS,EMERGENCY	EA	EA	586.09	50.00	100.00	150.00	87,911.80
18.5	101586	INST.POLE MARKER FOR VALVE CHAMBER	EA	EA	655.04	50.00	100.00	150.00	98,256.60
18.6	702266	MONITOR&MAINTENANCE,EARTHING,PIT	EA	EA	94.71	50.00	100.00	150.00	14,207.14
18.7	101630	HIRING,CJCB, Excavation	HR	HR	1,000.00	150.00	250.00	400.00	400,000.00
18.8	901789	CROSSING,WALL,CL,REPL.W/O PETZEL	M	M	503.93	1.00	1.00	2.00	1,007.85
18.9	904307	CROSSING,WALL,CL,REPL.W/ PETZEL	M	M	1,068.91	1.00	1.00	2.00	2,137.82
18.10	900085	ABANDONE,SUPPLY LINE,PE,U/G	EA	EA	832.70	10.00	20.00	30.00	24,981.00
18.11	904578	SHIFTING,TAP OFF, 20MM	EA	EA	1,567.60	50.00	100.00	150.00	235,140.10
18.12	904579	SHIFTING,TAP OFF, 25MM	EA	EA	1,573.25	50.00	100.00	150.00	235,837.54
18.13	904980	SHIFTING,TAP OFF, 50MM	EA	EA	1,581.55	1.00	1.00	2.00	3,163.10
18.14	904981	SHIFTING,TAP OFF, 63MM	EA	EA	1,590.85	50.00	100.00	150.00	238,627.28
18.15	904982	SHIFTING,TAP OFF, 90MM	EA	EA	1,600.15	20.00	50.00	70.00	112,010.34
18.16	904983	SHIFTING,TAP OFF, 110MM	EA	EA	2,293.94	1.00	1.00	2.00	4,587.87
18.17	904984	SHIFTING,TAP OFF, 125MM	EA	EA	2,303.23	20.00	50.00	70.00	161,236.43
18.18	904985	SHIFTING,TAP OFF, 160MM	EA	EA	2,321.83	1.00	1.00	2.00	4,643.67
18.19	904986	SHIFTING,TAP OFF, 200MM	EA	EA	2,340.43	1.00	1.00	2.00	4,680.86
19		MRS / IMS maintenance (Contractor supplied materials rate to be paid as per Section C)							
19.1	103107	MRS / IMS maintenance including filtercleaning, Strainer cleaning,Valve replacement	EA	EA	456.25	3.00	6.00	9.00	4,106.25
19.2	302647	Minor MRS / IMS maintenance like bolt replacement, Installation of valve handle.	EA	EA	250.00	3.00	6.00	9.00	2,250.00
19.3	302648	MRS / IMS painting	M2	M2	440.65	5.00	10.00	15.00	6,609.75
19.4	302649	MRS / IMS wire mesh repair	M2	M2	1,155.00	5.00	10.00	15.00	17,325.00
19.5	302650	Commissioning assistance of New MRS / IMS including Metering system, Vent pipe, installation, Leak test, Safety boards	EA	EA	406.25	5.00	10.00	15.00	6,093.75
19.6	103108	Replacement of IMS of below items as & when required. 1)Meter 2)EVC 3)Battery 4)Modem & power supply acc. 5) Junction Box	EA	EA	270.83	5.00	10.00	15.00	4,062.50
19.7	103110	Industrial visit for metering - night audit	EA	EA	97.37	50.00	60.00	110.00	10,710.76
19.8	303472	Fixed Charge of IMS Hook Up for Industrial/ Commercial Connection shilling cost including cost of following: PE Pipeline extension up to 40 Mtr. Outside Customer Premise (Any dia/Meter/ Any Terrain/ Any Soil Condition/ Any method of Laying), PE Pipeline extension up to 20 Mtr inside Customer Premise (Any dia/Meter/ Any Terrain/ Any Soil Condition/ Any method of Laying), MRS/ IMS Hook-up cost (Any Size), Mobilization , issue of material, loading-unloading and transportation expenses (per Customer). The Laying rates beyond 40 mtr for outside customer premise and 20 mtr inside customer premise are applicable as per the relevant SOR Item Size-wise. (Section C Rates are not applicable)	EA	EA	33,474.00	1.00	1.00	2.00	66,948.00
19.9	103669	DRS/ CPBS/ DPRC HOOK UP (ABOVE GROUND /UNDER GROUND) DRS/ CPBS/ DPRC Hook Up fixed Charge including Hook-up cost (Any Size) and Mobilization expenses (Section C Rates are not applicable)	EA	EA	9,012.00	1.00	1.00	2.00	18,024.00
Section C:		<b>SOR FOR SUPPLY OF MATERIALS NEEDED FOR O&amp;M EXECUTION DURING PE / PNG OPERATIONS &amp; MAINTENANCE (O&amp;M) CONTRACT</b>							
Note:		Section-C SOR- O&M SERVICE (FIXED RATE - BIDDER NOT TO QUOTE)							
20		Supply of 20mm OD, SDR 9, PE pipes							
20.1	101422	Supply of PE 100, 20 mm OD PE pipe x SDR 9	M	M	43.05	1,000.00	2,000.00	3,000.00	129,150.00
21		Supply of Powder coated GI pipes and others							
21.1	101421	Supply of 1/2" GI Pipe	M	M	141.75	1,000.00	1,500.00	2,500.00	354,375.00
21.2	101423	Supply of 1" GI Pipe	M	M	252.00	100.00	200.00	300.00	75,600.00
21.3	101424	Supply of 1/2"GI Powder Coated Clamp with screw	EA	EA	16.80	2,000.00	2,500.00	4,500.00	75,600.00
21.4	101425	Supply of 1"GI Powder Coated Clamp with screw	EA	EA	22.58	200.00	400.00	600.00	13,545.00
21.5	101427	Supply of Rubber Tube Clamp	EA	EA	5.25	2,000.00	4,000.00	6,000.00	31,500.00
21.6	101428	Supply of Burner Jet 125 - 110	EA	EA	5.25	1,000.00	2,000.00	3,000.00	15,750.00
21.7	101429	Supply of domestic meter / regulator O Ring/Union O-ring/Audco O-ring	EA	EA	7.61	1,000.00	2,000.00	3,000.00	22,837.50
21.8	101430	Supply of commercial meter / regulator O Ring	EA	EA	12.86	50.00	100.00	150.00	1,928.33
21.9	302670	Supply of PE Sleeve for wall crossing	M	M	33.60	200.00	500.00	700.00	23,520.00
22		Supply of TF, RCC Guard, Warning tape and Marker							
22.1	101008	Sup of Transition Fitting 1/2" Brass	EA	EA	179.55	200.00	400.00	400.00	107,730.00
22.2	101010	Supply of Transition Fitting 1" Brass	EA	EA	360.15	50.00	100.00	150.00	54,022.50
22.3	101433	Supply of Transition Fitting 1/2" GI	EA	EA	179.55	200.00	200.00	400.00	71,820.00
22.4	101434	Supply of Transition Fitting 1" GI	EA	EA	360.15	50.00	50.00	100.00	36,015.00
22.5	101435	Supply of RCC Guard	EA	EA	150.15	500.00	1,000.00	1,500.00	225,225.00
22.6	101436	Supply of RCC Route marker	EA	EA	420.00	500.00	500.00	1,000.00	420,000.00
22.7	101437	Supply of Valve Chamber Pole Marker	EA	EA	1,558.04	100.00	100.00	200.00	311,607.90
22.8	101438	Supply of Village Board	EA	EA	1,716.48	10.00	20.00	30.00	51,494.32
22.9	101439	Supply of MS Atrial Route marker	EA	EA	1,558.04	1.00	1.00	2.00	3,116.08
22.10	101440	Supply of Warning Tapes	M	M	15.72	1,000.00	2,000.00	3,000.00	47,145.00
23		Supply of Materials for Brick/PCC/RCC work and Hume Pipe							
23.1	100891	Supply of material for PCC 1:2:4	M3	M3	5,081.88	5.00	5.00	10.00	50,818.79
23.2	100892	Supply of material for PCC 1:4:8	M3	M3	4,042.78	1.00	1.00	2.00	8,085.55
23.3	101443	Supply of material for RCC	M3	M3	5,500.42	1.00	1.00	2.00	11,000.83
23.4	101444	Supply of material for Brick work including plastering	M3	M3	4,563.40	1.00	1.00	2.00	9,126.81
23.5	101002	Supply of material for steel including fabrication	KG	KG	161.05	10.00	10.00	20.00	3,221.00
23.6	101447	Supply of Valve chamber top cover for precast valve chamber	EA	EA	2,362.50	10.00	10.00	20.00	47,250.00
23.7	101445	Supply of steel for fabrication	KG	KG	72.45	10.00	10.00	20.00	1,449.00
24		Supply of PE Electrofusion fittings							

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24.1	101448	Supply of Reducer 110 x 125 mm	EA	EA	1,365.00	1.00	1.00	2.00	2,730.00
24.2	101449	Supply of Reducer 110 x 90 mm	EA	EA	787.50	1.00	1.00	2.00	1,575.00
24.3	101450	Supply of Reducer 160 x 125 mm	EA	EA	3,170.48	1.00	1.00	2.00	6,340.95
24.4	101451	Supply of Reducer 160 x 90 mm	EA	EA	2,747.33	1.00	1.00	2.00	5,494.65
24.5	101452	Supply of Reducer 125 x 90 mm	EA	EA	1,309.88	20.00	30.00	50.00	65,493.75
24.6	101453	Supply of Reducer 125 x 63 mm	EA	EA	1,162.88	20.00	30.00	50.00	58,143.75
24.7	101454	Supply of Reducer 90 X 63 mm	EA	EA	787.50	30.00	50.00	80.00	63,000.00
24.8	101455	Supply of Reducer 90 X 32 mm	EA	EA	182.70	50.00	100.00	150.00	27,405.00
24.9	101456	Supply of Reducer 12 X 20 mm	EA	EA	73.90	50.00	100.00	150.00	11,035.00
24.10	101457	Supply of Coupler 160 mm	EA	EA	789.85	1.00	1.00	2.00	1,579.71
24.11	101458	Supply of Coupler 20 mm	EA	EA	50.40	100.00	200.00	300.00	15,120.00
24.12	101459	Supply of Coupler 125 mm	EA	EA	407.40	30.00	60.00	90.00	36,666.00
24.13	101460	Supply of Coupler 110 mm	EA	EA	395.85	1.00	1.00	2.00	791.70
24.14	101461	Supply of Coupler 90 mm	EA	EA	276.15	50.00	100.00	150.00	41,422.50
24.15	101462	Supply of Coupler 63 mm	EA	EA	131.78	100.00	200.00	300.00	39,532.50
24.16	101463	Supply of Coupler 32 mm	EA	EA	64.58	200.00	300.00	400.00	19,372.50
24.17	101464	Supply of Tee 160 mm	EA	EA	5,076.75	1.00	1.00	2.00	10,153.50
24.18	101465	Supply of Tee 125 mm	EA	EA	1,837.50	5.00	10.00	15.00	27,562.50
24.19	101466	Supply of Tee 110 mm	EA	EA	1,365.00	1.00	1.00	2.00	2,730.00
24.20	101467	Supply of Tee 90 mm	EA	EA	942.38	5.00	10.00	15.00	14,135.63
24.21	101468	Supply of Tee 63 mm	EA	EA	357.53	20.00	40.00	60.00	21,451.50
24.22	101469	Supply of Tee 32 mm	EA	EA	193.73	50.00	100.00	150.00	29,058.75
24.23	101470	Supply of Tee 20 mm	EA	EA	193.20	50.00	100.00	150.00	28,980.00
24.24	101471	Supply of End Cap 160 mm	EA	EA	2,263.80	1.00	1.00	2.00	4,527.60
24.25	101472	Supply of End Cap 125 mm	EA	EA	1,365.95	20.00	40.00	60.00	81,857.00
24.26	101473	Supply of End Cap 110 mm	EA	EA	1,092.00	1.00	1.00	2.00	2,184.00
24.27	101474	Supply of End Cap 90 mm	EA	EA	811.13	20.00	40.00	60.00	48,467.50
24.28	101475	Supply of End Cap 63 mm	EA	EA	251.48	50.00	100.00	150.00	37,721.25
24.29	101476	Supply of End Cap 32 mm	EA	EA	116.55	50.00	100.00	150.00	17,482.50
24.30	101477	Supply of End Cap 20 mm	EA	EA	101.85	100.00	200.00	300.00	30,555.00
24.31	101478	Supply of Saddle 160 x 32 mm	EA	EA	663.60	1.00	1.00	2.00	1,327.20
24.32	101479	Supply of Saddle 125 x 90 mm	EA	EA	2,079.00	10.00	20.00	30.00	62,370.00
24.33	101480	Supply of Saddle 125 x 63 mm	EA	EA	2,542.58	10.00	20.00	30.00	76,277.25
24.34	101481	Supply of Saddle 125 x 32 mm	EA	EA	498.75	10.00	20.00	30.00	14,962.50
24.35	101482	Supply of Saddle 90 x 63 mm	EA	EA	2,480.63	20.00	40.00	60.00	148,837.30
24.36	101483	Supply of Saddle 90 x 32 mm	EA	EA	488.25	10.00	20.00	30.00	14,647.50
24.37	101484	Supply of Saddle 90 x 20 mm	EA	EA	441.00	10.00	20.00	30.00	13,230.00
24.38	101485	Supply of Saddle 63 x 32 mm	EA	EA	471.45	50.00	100.00	150.00	70,717.50
24.39	101486	Supply of Saddle 32 x 20 mm	EA	EA	317.63	50.00	100.00	150.00	47,643.75
24.40	101487	Supply of Saddle 63 X 20 mm	EA	EA	438.38	80.00	160.00	240.00	105,210.00
24.41	101488	Supply of Elbow (90°) 160 mm	EA	EA	4,523.40	1.00	1.00	2.00	9,046.80
24.42	101489	Supply of Elbow (90°) 125 mm	EA	EA	1,743.00	20.00	40.00	60.00	104,380.00
24.43	101490	Supply of Elbow (90°) 110 mm	EA	EA	978.50	1.00	1.00	2.00	1,957.00
24.44	101491	Supply of Elbow (90°) 90 mm	EA	EA	908.63	10.00	20.00	30.00	27,168.75
24.45	101492	Supply of Elbow (90°) 63 mm	EA	EA	358.05	10.00	20.00	30.00	10,741.50
24.46	101493	Supply of Elbow (90°) 32 mm	EA	EA	190.05	10.00	20.00	30.00	5,701.50
24.47	303474	Supply of TRANSITION FITTING,6"X160MM- 6" NB (Butt Weld End) X 160 MM PE 100, SDR-17.6	EA	EA	11,400.00	1.00	1.00	2.00	22,800.00
24.48	303475	Supply of TRANSITION FITTING,4"X125MM- 4" NB (Butt Weld End) X 125 MM PE 100, SDR-17.6	EA	EA	6,040.00	1.00	1.00	2.00	12,080.00
24.49	303476	Supply of TRANSITION FITTING,3"X90MM- 3" NB (Butt Weld End) X 90 MM PE 100, SDR-17.6	EA	EA	5,616.81	1.00	1.00	2.00	11,233.62
24.50	303477	Supply of TRANSITION FITTING,2"X63MM- 2" NB (Butt Weld End) X 63 MM PE 100, SDR-11	EA	EA	2,141.31	10.00	10.00	20.00	42,826.23
24.51	303478	Supply of TRANSITION FITTING,1"X32MM- 1" NB (Butt Weld End) X 32 MM PE 100, SDR-11	EA	EA	1,528.81	10.00	10.00	20.00	30,576.23
25		Supply of GI Fitting, Power Coated, -IS 1879							
25.1	101494	GI Fittings of 1/2" Elbow	EA	EA	24.37	1,000.00	2,000.00	3,000.00	73,101.00
25.2	101495	GI Fittings of 1" Elbow	EA	EA	62.39	50.00	100.00	150.00	9,358.65
25.3	101496	GI Fittings of 1/2" Hex Nipple	EA	EA	23.70	1.00	1.00	2.00	47.40
25.4	101497	GI Fittings of 1" Hex Nipple	EA	EA	50.87	1.00	1.00	2.00	101.75
25.5	101498	GI Fittings of 1/2" NB Nipple 2"	EA	EA	15.12	100.00	200.00	300.00	4,536.00
25.6	101499	GI Fittings of 1/2" NB Nipple 3"-M	EA	EA	19.37	100.00	200.00	300.00	5,811.75
25.7	101500	GI Fittings of 1/2" NB Nipple 4"-M	EA	EA	25.31	100.00	200.00	300.00	7,593.50
25.8	101501	GI Fittings of 1/2" NB Nipple 6"-M	EA	EA	35.28	100.00	200.00	300.00	10,584.00
25.9	101502	GI Fittings of 1" NB Nipple 2"-M	EA	EA	30.98	20.00	40.00	60.00	1,858.50
25.10	101503	GI Fittings of 1" NB Nipple 3"-M	EA	EA	36.33	20.00	40.00	60.00	2,179.80
25.11	101504	GI Fittings of 1" NB Nipple 4"-M	EA	EA	47.25	20.00	40.00	60.00	2,835.00
25.12	101505	GI Fittings of 1" NB Nipple 6"-M	EA	EA	63.89	20.00	40.00	60.00	3,833.55
25.13	101506	GI Fittings of 1/2" Coupling-M	EA	EA	22.93	50.00	100.00	150.00	3,438.75
25.14	101507	GI Fittings of 1" Coupling-M	EA	EA	47.08	20.00	40.00	60.00	2,824.50
25.15	101508	GI Fittings of 1/2" Plug-M (or Cap)	EA	EA	20.65	50.00	100.00	150.00	3,097.50
25.16	101509	GI Fittings of 1" Plug-M (or Cap)	EA	EA	37.81	20.00	40.00	60.00	2,268.42
25.17	101510	GI Fittings of 1/2" hollow hex Plug	EA	EA	26.78	100.00	200.00	300.00	8,032.50
25.18	101511	GI Fittings of 1/2" Union-M	EA	EA	74.66	1.00	1.00	2.00	149.31
25.19	101512	GI fittings 1" Union	EA	EA	128.52	1.00	1.00	2.00	257.04
25.20	101513	GI Fittings of 1 " x 1/2" Reducer-M	EA	EA	51.80	10.00	20.00	30.00	1,554.00
25.21	101514	GI Fittings of 1 " x 1/2" Tee-M	EA	EA	88.85	10.00	20.00	30.00	2,665.53
25.25	101515	GI Fittings of 1/2" Tee-M	EA	EA	35.48	30.00	60.00	90.00	3,193.16
25.23	101516	GI Fittings of 1" Tee-M	EA	EA	84.19	5.00	10.00	15.00	1,262.84
25.24	101517	Supply of 3/4" x 1/2" Bush-M	EA	EA	43.58	200.00	400.00	600.00	26,149.20
25.25	101518	Supply of 3/4" x 1" Bush-M	EA	EA	67.42	200.00	400.00	600.00	40,452.30
25.26	101519	Supply of Meter Adaptor-Brass for Dism. Meter (with NRV) (SOR is for individual adaptor not for SET of Inlet and outlet adapters)	EA	EA	241.50	200.00	400.00	600.00	144,900.00
25.32	101571	Supply of Meter Adaptor- Brass for G-2.5 Meter (SOR is for individual adaptor not for SET of Inlet and outlet adapters)	EA	EA	242.00	50.00	100.00	150.00	36,300.00
25.27	101520	Supply of Meter Adaptor- Brass for G-6 Meter (SOR is for individual adaptor not for SET of Inlet and outlet adapters)	EA	EA	583.41	5.00	10.00	15.00	8,751.09
25.28	101521	Supply of Meter Adaptor- Brass for G-10 Meter (SOR is for individual adaptor not for SET of Inlet and outlet adapters)	EA	EA	1,069.69	5.00	10.00	15.00	16,045.31
25.29	101522	Supply of Meter Adaptor- Brass for G-16 Meter (SOR is for individual adaptor not for SET of Inlet and outlet adapters)	EA	EA	1,069.69	5.00	10.00	15.00	16,045.31
25.30	101523	Supply of Meter Adaptor- Brass for G-25 Meter (SOR is for individual adaptor not for SET of Inlet and outlet adapters)	EA	EA	1,680.00	5.00	10.00	15.00	25,200.00
25.31	101524	Supply of domestic Regulator Inlet Adaptor-Brass (SOR is for individual adaptor not for SET of Inlet and outlet adapters)	EA	EA	161.00	200.00	400.00	600.00	96,600.00
25.33	103871	Supply of REDUCER,GI,BSPT,2"X1"	EA	EA	102.10	5.00	5.00	10.00	1,021.00
25.34	103872	Supply of REDUCER,GI,BSPT,1.5"X1"	EA	EA	67.45	5.00	5.00	10.00	674.50
26		Supply of Copper Fitting,							
26.1	103131	Copper tube ,12MM OD	M	M	191.50	1.00	1.00	2.00	383.00
26.2	103132	Copper Coupling,12MM OD	EA	EA	83.75	1.00	1.00	2.00	167.50
26.3	103134	Copper Tee, 12MM OD	EA	EA	77.65	1.00	1.00	2.00	155.30
26.4	103133	Copper Elbow,12MM OD	EA	EA	77.65	1.00	1.00	2.00	155.30
26.5	101426	PVC CLAMP for 2MM OD Copper tube	EA	EA	5.00	1.00	1.00	2.00	10.00
26.6	103129	Brass Union,1/2"ODX12MM OD	EA	EA	123.25	1.00	1.00	2.00	246.50

26.7	103130	Brass Adaptor 12MM OD X 1/2" BSPT	EA	EA	55.00	1.00	1.00	2.00	110.00
27		Supply of Miscellaneous Material							
27.1	101526	Supply of Fine Sand	M3	M3	900.00	100.00	200.00	300.00	270,000.00
27.2	101527	Supply of Soil for backfilling	M3	M3	368.65	100.00	200.00	300.00	110,595.00
27.3	101528	Supply of paint of standard make i.e. Asian, Burger, Nerolac etc.	Ltr	L	415.00	50.00	100.00	150.00	62,250.00
27.4	101529	Supply of Zinc/Rust preventive primer	Ltr	L	255.00	50.00	100.00	150.00	38,250.00
27.5	303479	Supply of FRP Cover with frame 600*600mm	EA	EA	8,050.00	20.00	20.00	40.00	322,000.00
27.6	303480	Supply of FRP Cover with frame 1000*1000mm	EA	EA	23,190.00	1.00	1.00	2.00	46,380.00
27.7	303481	Supply of FRP Cover without frame 1000*500mm	EA	EA	10,930.00	1.00	1.00	2.00	21,860.00
27.8	303482	Supply of ANACONDA	EA	EA	300.00	1.00	1.00	2.00	600.00
27.9	303483	Supply of Blind Adaptor-red plug for disconnection	EA	EA	101.00	200.00	400.00	600.00	60,600.00
27.10	303484	Supply of Brass appliance valve for Size-1/2"	EA	EA	102.00	100.00	100.00	200.00	20,400.00
27.11	303485	Supply of Brass isolation valve for Size-1/2"	EA	EA	121.00	100.00	100.00	200.00	24,200.00
27.12	303486	Supply of Brass isolation valve for Size-1"	EA	EA	324.00	20.00	20.00	40.00	12,960.00
27.13	303487	Supply of Brass isolation valve for Size-1.5" for Welded Riser	EA	EA	823.00	1.00	1.00	2.00	1,646.00
27.14	300659	Supply of Tube,SS316,1/2"OD	M	M	970.00	50.00	50.00	100.00	97,000.00
27.15	303514	Supply of Pipe,UPVC, 1" with rubber end seals	M	M	128.00	50.00	50.00	100.00	12,800.00
27.16	303515	Supply of Tube,Connector,1/2"OD X 1/2" BSPT MALE	EA	EA	2,500.00	10.00	10.00	20.00	50,000.00
27.17	303516	Supply of Tube,Connector,1/2"OD X 1/2" BSPT FEMALE	EA	EA	3,000.00	10.00	10.00	20.00	60,000.00
27.18	300666	Supply of Tube,Union, SS316,1/2" OD	EA	EA	3,500.00	5.00	5.00	10.00	35,000.00
27.19	303517	Supply of Anti corrosive tape	M	M	30.00	200.00	400.00	600.00	18,000.00
27.20	600794	Supply of PVC Clamp,SS TUBE	EA	EA	20.00	100.00	100.00	200.00	4,000.00
Section-D		SCHEDULE OF RATES FOR MISCELLANEOUS ACTIVITIES (SECTION-C SUPPLY RATES ARE NOT APPLICABLE)							
28		Meter Reading & Spot Billing							
28.1		SPOT billing for Domestic Segment (Meter reading including capturing of photograph, Bill processing, Printing and invoice hand over to customer)							
	800130		Per Connection	EA	5.61	3,000.00	6,000.00	9,000.00	50,446.92
28.2	800133	SPOT billing for Commercial/Non-Commercial segments (Meter reading including capturing of photograph, Bill processing, Printing and invoice hand over to customer)	Per Connection	EA	8.25	10.00	20.00	30.00	247.43
Note:		GGL reserves its right for operation or non-operation of Meter Reading & Spot Billing activities at its sole discretion under this contract without assigning any reason to bidder. Bidder shall be obliged and responsible for performing the activities as per the instructions of GGL Engineer-in-Charge							
29		Calibration of Instruments							
29.1	302732	Calibration of GGL owned O2 Analyzer - Traceability to NABL accredited lab for master calibration instrument (Frequency of calibration is half yearly)	Each	EA	3,500.00	3.00	6.00	9.00	31,500.00
30		PERMANENT RESTORATION CIVIL WORKS FOR PE-PNG PROJECT (AFTER PRIOR APPROVAL FROM EIC/ OR GA HEAD WHERE DEMANDED BY AUTHORITY)							
		Providing, Fixing, Centering, Shuttering and Laying of cement concrete with concrete of nominal mix 1:2:4 by mass (1 cement:2 coarse sand:4 coarse stone/ aggregates/ gravels) with 20 mm down Size graded crushed stone aggregates/ gravels as specified in Specifications and satisfaction to the EIC. Supply of all consumables materials such as cement, sand water, aggregates etc., manpower including carrying out all civil works for PCC on Trench as required and as per technical Specifications & Instruction of Engineer in Charge. In base GSB need to be done with thickness of 150 MM Th. GRANUAL SUB BASE COURSE(Grade-4) Binder and Coarse Aggregate Materials Shall Meet the Requirements as per MORTH Specification (latest Revision) tough, sound, clean and durable including cost of stone aggregates with quarry dust / murrum filling in voids correcting the grade and slope for, all royalties, taxes, handling, transportation to site, unloading the same by the side of the road with all leads and lifts, spreading and laying of GSB in LAYER of 75 mm EACH compacted thickness to proper grade, camber & level, binding the surface with murrum, including the cost of supply of murrum, consolidating with min 10 T Vibro road-roller, watering, with all leads & lifts including preparation of camber below Paver etc. complete as per drawings, specification and direction Engineer-in-Charge							
30.1	103655	Permanent restoration , PCC on Trench with GSB	M3	M3	3510.00	1.00	1.00	2.00	7,020.00
		Re-fixing of existing removed paverblocks in same pattern and to be laid over bed of 50 mm river sand to alien in proper line and level and joints to be filled with river sand and to do compaction by Mechanical Compactor. Gaps between pavers laid and Walls, Foundations, etc. to be filled with cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 stone aggregate 20 mm down Size). Rate shall include all tools tackles, sand Supply, watering, compacting, machinery, labour etc. all complete. Actual/ Net quantities measured including Gaps filled shall be Paid. Available Paver blocks to be used. Contractor shall use removed/existing paver blocks for restoration. In base GSB need to be done with thickness of 150 MM Th. Supplying and laying of 150 mm Th. GRANUAL SUB BASE COURSE(Grade-4) Binder and Coarse Aggregate Materials Shall Meet the Requirements as per MORTH Specification (latest Revision) tough, sound, clean and durable including cost of stone aggregates with quarry dust / murrum filling in voids correcting the grade and slope for, all royalties, taxes, handling, transportation to site, unloading the same by the side of the road with all leads and lifts, spreading and laying of GSB in LAYER of 75 mm EACH compacted thickness to proper grade, camber & level, binding the surface with murrum, including the cost of supply of murrum, consolidating with min 10 T Vibro road-roller, watering, with all leads & lifts including preparation of camber below Paver etc. complete as per drawings, specification and direction Engineer-in-Charge							
30.2	103656	Permanent restoration , Refixing of Paver block with GSB	M2	M2	1464.00	1.00	1.00	2.00	2,928.00
		In case of missing paver blocks, Contractor shall procure same as per required design & specification at their own risk & cost. In case of shortfall in paver block while fixing/ restoring, Contractor needs to replace the same as per required design & specification. Rate includes paver blocks installed in 1 sq. mtr.							
30.3	103657	SUPPLY PAVR.BLOCKS MISSING	M2	M2	380.00	1.00	1.00	2.00	760.00
		TRIMIX FINISH: Providing & Laying 150 mm thick Vacuumed Dewatered, surface vibrated, and finished with trimix machine with controlled grade i.e. M 20 R.C.C. including formwork and reinforcement, Rockite or equivalent metallic floor hardener @ 4.5 kg/Sq.m, formation of construction joints 6- 10 MM th @ 3 M c/c by cutting up to 1.4th thickness of concrete slab with mechanized screw and filling the same with semi rigid epoxy based sealant as per detail drawing and as per instruction of engineer in charge. including preparation of base, curing, finishing etc., complete. In base GSB need to be done with thickness of 150 MM Th & D&L P.C.C. (1:4:8) 75 MM Th&: Supplying and laying of 150 mm Th. GRANUAL SUB BASE COURSE(Grade-4) Binder and Coarse Aggregate Materials Shall Meet the Requirements as per MORTH Specification (latest Revision) tough, sound, clean and durable including cost of stone aggregates with quarry dust / murrum filling in voids correcting the grade and slope for, all royalties, taxes, handling, transportation to site, unloading the same by the side of the road with all leads and lifts, spreading and laying of GSB in LAYER of 75 mm EACH compacted thickness to proper grade, camber & level, binding the surface with murrum, including the cost of supply of murrum, consolidating with min 10 T Vibro road-roller, watering, with all leads & lifts including preparation of camber below Paver etc. complete as per drawings,specification and direction Engineer-in-Charge PCC. Providing, Fixing, Centering, Shuttering and Laying of cement concrete with concrete of nominal mix 1:4:8 by mass (1 cement:4 coarse sand& coarse stone/ aggregates/ gravels) with 20 mm down Size graded crushed stone aggregates/ gravels as specified in Specifications and satisfaction to the EIC. Supply of all consumables materials such as cement, sand water, aggregates etc., manpower including carrying out all civil works for PCC on Trench as required and as per technical Specifications& Instruction of Engineers Charge. Work includes box cutting of 525 mm, watering, compacting, preparing base & Removal of excess soil & transportation							
30.4	103658	Permanent restoration , RCC M20 TRIMIX ROAD RESTORATION	M3	M3	4277.00	1.00	1.00	2.00	8,554.00

		ASPHALT ROAD Execution of civil work to develop floor area finish with Asphalt Road including scope of work of excavation/box cutting, 150 GSB, 230 mm thk WBM in Two layer, 150 mm thk WMM as directed by EIC, 50 mm thk B.T./B.M aggregate, asphaltic concrete with Priming tack Coat and premix Seal Coat spreading hardener on surface for Asphalt road including curing, Cutting, polysulphide filling, site, cleaning, material sampling and testing for quality check etc. all complete Box cutting in loose or with hard soil upto required depth including sorting out, stacking of useful materials, and disposing of the excavated stuff upto any Level. GSB : 150 MM Th:- Supplying and laying of 150 mm Th. GRANUAL SUB BASE COURSE(Grade-I) Binder and Course Aggregate Materials Shall Meet the Requirements as per MORTH Specification (latest Revision) tough, sound, clean and durable including cost of stone aggregates with quarry dust / murrum filling in voids correcting the grade and slope for, all royalties, taxes, handling, transportation to site, unloading the same by the side of the road with all loads and lifts, spreading and laying of GSB in LAYER of 75 mm EACH compacted thickness to proper grade, camber & level, binding the surface with murrum, including the cost of supply of murrum, consolidating with min 10 T Vibro road-roller, watering, with all leads & lifts including preparation of camber below Paver etc. complete as per drawings, specification and direction Engineer-in-Charge. Providing, laying and consolidation of WBM sub base consisting of machine crushed B.T. stone metal of 63mm to 40mm grade stone aggregate of compacted thickness 230 mm in two layer of 115 mm thk including using 20% stone screening Grit and stone dust as filler with power/road roller of as per specification consolidate the sub base to proper camber with vibratory road roller as per Specification complete in all respect to required slope as directed by the Engineer-in -charge. Providing, laying, spreading and consolidation graded stone aggregate to wet mix macadam(WMM) 150 mm compacted thick in two layer of 75 mm as per MORT & H specifications including permitting the material with water at OMC in mechanical plant carriage of mixed material by tippers to site, laying in uniform layers with paver in sub base/ base course on well prepared surface and Compacting with vibratory roller to achieve the desired density. Providing and laying of prime coat provided before the laying of bituminous emulsion VG-10 layer on WBM surface including cleaning the road surface and spraying primer at the rate of 10 kg/10 sqm using mechanical means. Binder shall be conforming to the specifications complete in all respect to the entire satisfaction of Engineer-in-charge. Providing and laying 50 mm B.M. with B.T. aggregate as per MORT & H specification and Emulsion asphalt for tack coat @ 2.5 kg/10 sqm with mechanical sprayer & bitumen grade 70 / 60 or 80/100 for mixing at 40.00 kg/m <sup>3</sup> i.e. 4.00% of total mix including heating the aggregate continuous batching drum mix plant and spreading the same by sensor paver finisher and consolidation with vibratory roller including providing all materials equipments, tools and plants, fire wood, oil, kerosene, labour charges etc. complete using contractor's own machinery drummix plant and paver finisher etc complete. Providing and laying 30 mm thick compacted asphaltic concrete with B.T. aggregate as per MORT & H specification and asphalt 80/100 for tack coat @ 2.5 kg/10 sqm with mechanical sprayer & bitumen grade 80/100 for mixing at 60.00 kg/m <sup>3</sup> i.e. 6.00% of total mix including heating the aggregate & asphalt VG-10 in continuous batching drum mix plant and spreading the same by sensor paver finisher with rolling and consolidation with 10-12 tones vibratory and power roller including providing all materials equipments, tools and plants, fire wood, oil, kerosene, labour charges etc. complete using contractor's own machinery drum mix plant and paver finisher etc complete. Providing and laying evenly priming/tack coat on the prepared surface, heating bitumen with open set fitted on bitumen boiler on black topped surface bitumen at 5kg/sqm Providing and laying premix seal coat surfacing on the prepared surface as wearing course with specified graded crushed aggregates premixed with bituminous binder. Work includes box cutting of 610 mm, watering, compacting, preparing base & Removal of excess soil & transportation							
30.5	103859	Permanent restoration , Asphalt Road with GSB	M3	M3	3044.00	1.00	1.00	2.00	6,088.00
	Note:	1. The SOR Items would be operatable as per job requirement and quantities may vary on ± sides. 2. 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. 3. 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.							
Sub-Total: Section A + B + D									37,549,896.87
Sub-Total: Section-C									5,622,093.94
Total Basic Amount in Rs. (Section A + B + C + D)									43,171,990.81
									4.32