



अवंतिका गैस लिमिटेड  
**AAVANTIKA GAS LIMITED**  
A Joint Venture Company of GAIL & HPCL

**Expression of Interest for DPNG Last Mile Connectivity (LMC) Work**

**NOTICE INVITING EXPRESSION OF INTEREST (EOI)**

Reference No.: AGL/447/PROJECT/LMC DPNG WORK/2023-24/EOI

Date: 06.11.2023

**Last Mile Connectivity (LMC) Work at Indore & Gwalior GA**

Aavantika Gas Limited invites offers through Expression of Interest (EOI) for submitting their proposal for execution of Last Mile Connectivity (LMC) Work pertaining to Domestic PNG connections in the Geographical Areas of Indore (Including Ujjain and Pithampur) and Gwalior GA of Madhya Pradesh.

**EOI Details:**

1. Aavantika Gas Limited is interested to expediting the project of LMC work by awarding work to enthusiastic contractors associated with CGD sector as a sub-contractor or with specified non-CGD sector as a main/sub contractor. Each eligible Five (05) Nos bidders shall be awarded 100 Nos domestic connections work (LMC) at the published rates attached as SOR along with this EOI.
2. EOI Schedule shall be as under:
  - a) Period: 07.11.2023 (From 10:00 Hrs) to 22.11.2023 (Up to 16:00 Hrs).
  - b) Last Date/Time for Submission of EOI: 22.11.2023 (Up to 16:00 Hrs).
  - c) EMD & Tender Fee: NOT APPLICABLEAavantika Gas Limited reserves the right to extend the EOI period and due date for submission.
3. EOI can be downloaded from the website [www.aglonline.net](http://www.aglonline.net) within the above-mentioned period. Any amendment, clarification, corrigendum w.r.t. EOI will be hosted on [www.aglonline.net](http://www.aglonline.net). Applicants should regularly visit this website to keep themselves updated. Any query related to EOI may be submitted online only at Email ID [cp@aglonline.net](mailto:cp@aglonline.net).
4. The completely filled Signed and Stamped EOI, along with requisite documents, is to be submitted physically in sealed envelope by Applicant to "Manager Contracts and Procurement, Aavantika Gas Limited, 2<sup>nd</sup> Floor, B Block, NRK Business Park, Vijay Nagar Square, Indore (Madhya Pradesh)" or through email at [cp@aglonline.net](mailto:cp@aglonline.net) mentioning Reference No. in Subject line.
5. EOI, complete in all respect, shall be opened and evaluated by Aavantika Gas Limited and the Applicant shall be informed accordingly on time to time basis.
6. Aavantika Gas Limited will not be responsible for any cost or expenses incurred by the Applicants in connection with preparation or delivery of EOI.
7. This Notice inviting EOI neither confirms the right nor an expectation on any party to participate in the proposed EOI. Aavantika Gas Limited reserves the right to accept or reject, any or all EOIs received at its absolute discretion without assigning any reason whatsoever.

Bidders Seal and Sign:



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**1. INTRODUCTION**

Aavantika Gas Limited [Joint Venture of GAIL (India) Ltd. and HPCL] is in the business of supplying PNG/CNG in Geographical Areas (GA) of Indore, Ujjain and Gwalior (Madhya Pradesh). Further, as a part of its expansion efforts are being made by Aavantika Gas Limited to increase the maximum number of Domestic Connection year on year for supply of Natural gas through Last Mile Connectivity (LMC) Work and Associated MDPE Pipeline Laying Work.

Aavantika Gas Limited is interested to expediting the project of LMC work by awarding work to enthusiastic contractors associated with CGD sector as a sub-contractor or with specified non-CGD sector as a main/sub contractor.

**2. TECHNICAL QUALIFYING CRITERIA:**

The Bidder must have executed work related to plumbing/piping/pipeline/telecom or similar works (working indirectly with other CGDs or govt agencies like Municipal corp., PWD, etc. as a main/sub-contractor) for minimum value of Rs. 8.18 lakh in India in last 5 years to be reckoned from the last date of EOI submission.

**Note:**

- *Top 5 eligible bidder in a list arranged in turnover wise descending order shall be only be considered for award of work.*
- *As this is a vendor development initiative of Aavantika Gas, the Main contractors working with other CGD or AGL are not allowed to participate in this process.*

**3. SUPPORTING DOCUMENTS & SPECIAL CONDITIONS:**

- a. Bidder has to submit a copy of Work Order / Letter of Award / Letter of Acceptance/ Payment advice/ Invoice raised (executed within last 5 years reckoned from the bid due date) AND its Completion Certificate issued by the Contractor/ Client. The Completion Certificate / Letter of Satisfactory Performance should have cross reference to the WO / PO indicating the type of work executed.
- b. In respect of Technical Criteria above, in case of a running contract Bidder can furnish confirmation from client / Main contractor in the form of Provisional Completion/Execution Certificate towards the Executed work as on bid due date.
- c. Bidders must submit copy of financial statements including Balance Sheet and Profit & Loss account statement certified by Chartered Accountant for last audited financial years i.e. FY 2022-23.
- d. Bidder has to submit company's PAN card, GST registration and Company registration certificate.
- e. Bidder has to submit an Undertaking on their letterhead mentioning the contractor is not working/ was not worked with any CGD industry in India as a main contractor.
- f. Bidder has to submit an Undertaking on their letterhead that "The bidder and bidder's firm is not blacklisted/ on a holiday list as on bid due date.



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**Note:** All the documents attached should be self-attested.

**4. EVALUATION AND METHODOLOGY FOR AWARD OF WORK:**

- LMC DPNG work of 100 connections will be awarded to each Contractor, i.e. 5 Nos, in descending order based on highest annual turnover of FY 2022-23. The remaining Contractors shall be empaneled with AGL and can be awarded the work in case any Contractor backs out at a later stage or as per AGL requirement.
- The qualified Contractors will be awarded 1st Order for 100 Nos. of LMC DPNG connections with a completion period of 4 months.
- In case the target number of 100 LMC DPNG connections is not achieved within the stipulated time, then said Order will expire.
- On the successful and timely completion of 80% of 1st Order value; Repeat Order (2nd Order) with 100% value shall be issued to respective contractor with Completion Period of Three (03) months. Maximum Three (03) Orders will be issued to a contractor subject to satisfactory performance and AGL requirement. For issuance of 3rd Order, the contractor has to timely complete 100% work value of 1st Order and at least 80% work value of 2nd Order.
- No penalty shall be levied in 1st Order for delay in MDPE laying, delay in doing Online connection, delay in RFC, FC and document uploading. However, from 2nd Order onwards, all the above mentioned delay penalties shall be duly applicable.

**5. COMPLETION PERIOD:**

- The qualified Contractors will be awarded 1st Order for 100 Nos. of LMC DPNG connections with a completion period of 4 months.
- In case the target number of 100 LMC DPNG connections is not achieved within the stipulated time, then said Order will expire.
- On the successful completion of 80% of 1st Order value, a repeat order (2nd Order) with 100% value shall be issued to respective contractor with completion period of Three (03) months. Maximum three Orders will be issued to a contractor subject to satisfactory performance and AGL requirement. For issuance of 3rd Order, the contractor has to timely complete 100% work value of 1st Order and at least 80% work value of 2nd Order.

**6. SCOPE OF WORK:**

- **All terms & conditions (pertaining to Techno-Commercial execution of work) shall be in line with the recent AGL E – Tender no. AGL/Head Office/Contract and Purchase/7/22-23/ET/7[MDPE LAYING AND LMC WORK] Dated 30.07.2022.**
- Timelines for completion of individual LMC fronts & applicability of PRS on amount of individual work front will be incorporated in these Orders in line with AGL e-Tender ET-7.
- All other penalties such as related to delay in Portal updation, submission of JMR's etc. will also be incorporated in the Work Orders in line with AGL e-Tender ET-7.



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**7. PERFORMANCE BANK GUARANTEE:**

Within 15 days from the date of award of Order, the Bidder shall furnish Performance Guarantee in the form of Bank Guarantee to the PURCHASER, for an amount equivalent to 10% of Order value (Excluding taxes & duties). Performance Bank guarantee shall be valid for a period of 3 months beyond the expiry of the defect liability period.

OR

Upon written request from Bidder, bidder shall submit Performance Guarantee equivalent to 5% of Order value (Excluding taxes & duties) in the form of Bank Guarantee to the PURCHASER and balance 5% equivalent amount will be withhold from RA Bill

**8. PAYMENT TERMS:**

**PE AND RELATED WORK:**

- a) 70% on completion of laying & testing work and submission of graphs.
- b) 20% on commissioning (gas charging) and submission of As-Built Drawings & HOTO (if applicable).
- c) 5% on completion of entire awarded work as per scope of Tender and submission of No Dues/No Claim Certificate from vendor and after due reconciliation of material by project department and submission of all documents as per contract and reconciliation of material.
- d) 5% on Contract Closure along with Contract account reconciliation statement & No Dues/No Claim confirmation from F&A/Project department.

**Note:** To claim the 70% amount, claimed quantity/length must be tested and in continuation from the identified gas source.

**GI AND RELATED WORK:**

- a) 90% on conversion of appliance/burner and updation of connection on portal.
- b) 5% on completion of entire awarded work as per scope of Tender and submission of No Dues/No Claim Certificate from vendor and after due reconciliation of material by project department and submission of all documents as per contract and reconciliation of material.
- c) 5% on Contract Closure along with Contract account reconciliation statement & No Dues/No Claim confirmation from F&A/Project department.

**OTHER WORKS (NOT COVERED ABOVE):**

- a) 90% progressively on completion of individual item work on pro-rata basis as certified in monthly progress bill.
- b) 5% on completion of entire awarded work as per scope of Tender and submission of No Dues/No Claim Certificate from vendor and after due reconciliation of material by project department and submission of all documents as per contract and reconciliation of material.



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c) 5% on Contract Closure along with Contract account reconciliation statement & No Dues/No Claim confirmation from F&A/Project department.

**LIAISON WORK:**

90% on completion of Laying & Testing

10% on contract closure

Note: Liaisoning Amount shall be paid only for the actual length laid by vendor and not the length stated in the permission; However, the Liaisoning amount paid shall not be more than the quantity for which permission is acquired. NOC & BG from concerned statutory authority to be acquired & released as per AGLs requirement.

**PAYMENT METHODOLOGY:**

The contractor shall preferably raise invoices on monthly basis for works carried out and uploaded on Portal, duly certified by Engineer- in-Charge. The contractor to ensure that the invoices of completed work should be raised & duly certified by Engineer-in-charge on monthly basis.

The payments to the Contractor will be released preferably within a period of 15 days from the date of receipt of the invoice duly certified by EIC as per the terms and conditions of the Contract

**ADDITIONALLY:**

- a. For the contractor it is recommended to raise their invoices after completion of every 25 RFCs such that the contractor can have regular funds rotation into the project which ultimately have better control over progress.
- b. AGL has set timeline for processing the contractor's invoice (RA bill) as 15 working days (maximum) after receipt of correction free invoice from the contractor.

**9. SELECTION PROCESS:**

- All applications/EOIs received shall be evaluated against the Eligibility Criteria mentioned in this EOI document. On evaluation, if required, a techno-commercial query may be sent to the applicant seeking clarification / required documents in support of the qualification criteria.
- Selection of applicant(s) shall be based on the EOI proposal submitted by the applicant and shall be evaluated on Eligibility Criteria.
- AGL reserves the right to discontinue the process at any point of time without assigning any reasons. Further, AGL has the sole discretion to qualify or accept the EOI and reject the proposal without assigning any reason whatsoever.
- Successful applicant (s) shall be informed separately by AGL through Letter of Intent (LOI) regarding their selection along with the terms and conditions stipulated in order regarding award of work.



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**ANNEXURE-1**

**FORMAT FOR SUBMISSION OF EXPRESSION OF INTEREST (EOI)**

To,

**Manager C&P Department  
Aavantika Gas Limited  
2nd Floor, B Block NRK Business Park, Vijay Nagar Square,  
Indore (M.P.) 452010**

**Subject:** Submission of Expression of Interest for execution of Last Mile Connectivity (LMC) Work at Indore GA (including Ujjain & Pithampur) & Gwalior GA

Dear Sir,

1. With reference to the EOI Ref.: **AGL/447/PROJECT/LMC DPNG WORK/2023-24/EOI** and after examining the detailed EOI document, selection process published rates and other terms and conditions mentioned in the EOI document for "Last Mile Connectivity Work at Indore GA & Gwalior GA", I/We hereby offer to submit my / our Expression of Interest.
2. All documents necessary in this connection and as required in EOI are enclosed hereto. All the documents/ photocopies of the documents have been self-attested by me/us and Aavantika Gas Limited is free to reject our candidature if any of the documents/photocopies of the documents is/are found to be false or forged.
3. The information sought from me as per the EOI notice is enclosed along with other mandatory details required in the EOI to this letter.
4. I/We hereby give our **Acceptance** against your offered Schedule of Rates (SOR) in line with terms & conditions of AGL eTender No. AGL/Head Office/Contract and Purchase/7/22-23/ET/7[MDPE LAYING AND LMC WORK] Dated 30.07.2022.

Name of Contractor :

Category of Application :  
(Partnership Firms, Proprietorship Firms)

Contractor Address :

Contact Person Name, Designation & Contact No. :

Bidders Seal and Sign:



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Signature & Stamp of Authorized Signatory) :

Subject: MDPE Laying & Last Mile Connectivity (LMC) Work for D-PNG Connections at Indore GA					
SCHEDULE OF RATES (SOR) :					
Sr. No.	Description	Unit	Quantity	Unit Rates including all taxes and duties but excluding GST (in INR)	Total Price Including all Taxes and Duties but excluding GST (in INR)
	MDPE LAYING & GI INSTALLATION WORK				
1	Construction, Installation, Testing and Commissioning of MDPE pipes. This includes supply of all material which is not in scope of owner like PE electrofusion fittings, warning tapes, Transition Fittings, RCC Guards, etc.				
	Receiving and taking over, handling, loading, transportation and unloading of owner supplied MDPE pipes, and other free issue items from Owner's designated stock yards to Contractor's own stock-yards/ workshops/ work-sites with proper storing, stacking, identification, providing security and insurance cover.				
	Preparation and getting approval of schedules, execution procedures, drawings/ sketches/ wherever required, making trial pits to determine the underground utilities/ services etc. restoration of the abandoned trial pits to original condition.				
	Line marking and Grading of the ROU, barricading the work area as per AGL Safety Policy, local authorities norms & to the satisfaction of EIC, installation of safety signs and boards, trenching to required depth, repairing of all damaged utilities if any, and payment of any compensation ( if claimed by owner/ other utility agencies/third party)				
	Sand/Soft Soil Padding of 75mm at the trench bottom including supply of Sand/Soft Soil				
	Uncoiling & stringing of pipes, clamping, jointing of the pipe ends/ fittings/ valves by qualified personnel using approved electro-fusion techniques as per specification.				



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Lowering the pipeline in trench to required depths, filling sand around and upto 75 mm from top of pipe, soft graded soil layer of 125 mm above layer of sand, insertion of carrier pipe inside the Casing pipe wherever required by AGL (Supply as per specification attached) and placement of warning mat over the pipeline along the complete route, padding around pipeline with suitable approved soil, backfilling with available excavated material after screening, compaction with jumping jack compactor and water at subsequent layers of 150 mm above warning mat. All tiles/ slabs/ curb stones etc removed during excavation shall be placed properly. Roads, pavements, footpaths etc. to be made motorable wherever pipeline is laid.				
Installation and electro fusion jointing of valves, wherever required and as directed by Engineer-in-charge.				
Restoration of area to original condition, including cleaning the area of all unserviceable materials, debris, excess earth near trenches to the designated disposal area as per instruction and complete satisfaction of local authorities /Owner/ Engineer -in- Charge.				
Restoration of all surrounding ground features to that existing before as directed by Engineer-in- charge which would also include replanting of any uprooted trees etc, if required.				
Flushing, cleaning ,Pneumatic testing, purging with nitrogen and commissioning as per specification and approved procedures with providing all tools and tackles, nitrogen, calibrated instruments, qualified manpower and other related accessories and as per the instructions of the Engineer-in Charge.				
Maintaining the completed pipelines / installation for any defect / failures due to material or workmanship during defect liability period ( I.e. 12 months from date of commissioning)..				
Handing over the completed works to AGL for their operation/ use, returning of all surplus material to AGL stores, reconciliation of free issue material area wise and obtaining no objection certificate.				
Preparation and submission of Daily progress report, Laying Graphs on daily basis to EIC. Submission of Weekly report, Monthly Progress Report alongwith material reconciliation statement to EIC..				
Preparation and submission of As built drawings, crossings details, graphs and deviation statements before commissioning of pipelines.				
Submission of all documents required for contract closure as per instruction of EIC in numbers as mentioned in contract.				
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 schedule at no extra cost to AGL				





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	Making trial pits at a distance of 40 to 50 Mtrs or as per the instructions of Site In Charge/Engineer In Charge to ensure the exact location of pipeline and condition of Pipe wherever the pipeline is laid by the HDD Method and the HDD/Shot Length is upto or more than 80 Mtrs and to do the liasoning with the local bodies/residents to facilitate the job/making the pits. The pit location is to be marked on the Graph/As Graph. No extra payment shall be payable to the Contractor for carrying out this activity.				
1.1	Laying in all kind of surfaces (normal, unprepared, built-up, hard surface of any kind like asphalted, concrete, tiled, paved, brick lined, etc.) by any method (open cut/molling/directional drilling, etc confirming to statutory permissions) in all type of soil strata				
a	20 mm PE pipe	Meters	560	355.44	1,99,047.28
b	32 mm PE pipe	Meters	200	324.08	64,815.82
1.2	Pipe laying using manual boring / machine boring (directional drilling) technique (With HDPE Casing Pipe) for carrier pipe sizes of:				
	Survey of underground utilities, execution of the work as per specification, including excavation of pits with the hole size not exceeding 20% of the pipe dia, jointing and insertion of carrier pipe without casing and subsequent backfilling, compaction restoration of the pits to its original condition as per specifications and the instructions of Engineer-in-Charge				
a	32mm Pipe (casing size 90mm)	Meters	5	412.94	2,064.70
Note:	Payment shall be made on the actual length of Casing Pipe. However, payment for Carrier Pipe inside Casing Pipe shall be paid as per Item No.- 1 of Main line Laying.				
2	Supply & Jointing of HDPE Casing Pipe (PE 80 SDR 11 PN6 Grade)				
a	HDPE Casing Pipe - 90 mm Dia	Meters	5	439.07	2,195.37
Note:	Quantities has to be procured with due approval of E.I.C				
3	Laying of Service Lines (20 mm) for LMC work (upto 8 meters)				
	Taking tap off from existing charged line and laying of Service line (20 mm Dia.) up to installation of TF by excavation in all types of surfaces (by any methodology Open cut, Moling etc). Rates to include supply of all necessary PE fittings, TF, GI sleeves, construction of Pedestal / TF guard, Warning mats etc. The rates to include liaison work with concerned authorities, House Owners, Housing societies etc, no separate liaison amount will be payable other than this for laying of service line for LMC work to DPNG connections.	Nos	60	3562.30	2,13,737.70
Notes:	a. The above SOR will be applicable for all cases where the Contractor has to lay the service line for executing LMC work to DPNG connections. The fix length of 8 meters will be measured from the saddle / tap off point up to the TF after taking tap off from existing charged lines. The amount will be payable for the number of TFs / GC done. Even if more than one				



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	TF is installed from the same tapping point / pit, it will be considered for payment. However, this SOR shall not be applicable for laying of service line and installation of TFs in Multi Storied Buildings.				
	b. The work for excavation at the Saddle point will be payable under separate SOR.				
	c. Restoration of both the pits (saddle & TF side) will be payable under separate SOR.				
4	Removing and Restoration of Built-up Surfaces				
	Breaking and Restoration of the hard surfaces of roads including Asphaltting, metal, Cement concrete, bituminous, Tiles/ Slabs/ Blocks/ Curb stones / Footpath, Brick setting/ channels etc. to original condition including supply of the approved quality material required, as per AGL & local authorities norms, obtaining NOC from concerned local authorities / land owners/ third party inspection agencies designated by AGL / local authority and to the satisfaction of the Engineer-in-Charge.	RM	208	517.48	1,07,636.07
5	Excavation of hard rock wherever hard rock of single piece exceeding 1.5m in length removable by pneumatic chisel/ drill as per specifications and direction of EIC	Cu Meters	2	3136.25	6,272.50
6	Excavation of soft rock / murrum	Cu Meters	10	679.52	6,795.21
7	Excavation of pit for Hook up/Saddling of existing charged line at any depth for Connecting PNG Customers				
a	Pipeline Depth upto 1.5 Mtrs	M <sup>3</sup>	120	539.77	64,772.01
b	Pipeline Depth 1.5 to 2 Mtrs	M <sup>3</sup>	20	584.92	11,698.40
c	Pipeline Depth more than 2 Mtrs	M <sup>3</sup>	24	630.07	15,121.77
8	Construction of Valve Chamber as per the Drawing & Installation, Testing & Commissioning of PE Valves of all sizes in Valve Chamber. This includes Electrofusion Jointing/Tie-in with main pipeline. Chamber cover shall be pre-cast only conforming to M 35 strength. No additional charges to be paid for supply of sand in valve chamber. Chamber walls to be prepared by shoring.	No	1	16726.66	16,726.66
9	Supply and Installation of Route Markers				
a	RCC Route Markers as per Sketch: Supply, fabrication and installation of RCC route markers, at distance of every 50 meter, as per the attached drawings, along the route including all associated civil works such as excavation and construction in all types of soils, grouting with concrete, clearing, supply and application of approved color and quality of primer and paint, stencil letter cutting of numbers, direction, chainage etc. restoration of area to original condition and performing all works as per drawings, specification and instruction of EIC. Markers are also required to be installed at all T points of pipeline, end point of pipeline, both end at every road crossing, and as per direction of EIC.	Nos	5	522.71	2,613.54



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b	Pipeline Warning Sign Markers with Foundation As per Sketch: Supply, fabrication and installation of warning pole markers, at distance of every 200 meter, as per the attached drawings, including all associated civil works such as excavation and construction in all types of soils, construction of pedestals and grouting with concrete, cleaning, stencil letter cutting and painting of numbers, direction, chainage, etc. restoration of area to original condition as per the instruction of EIC.	Nos	2	3031.71	6,063.42
c	Pipeline Warning Sign Markers without Foundation as per Sketch (Plate Marker): Supply, fabrication and installation of warning markers as per the attached drawings and as per the instruction of EIC.	Nos	10	261.35	2,613.54
10	CIVIL WORKS				
a	Plain Cement Concrete				
	Supplying and laying plain cement concrete (including shuttering of required) in all types of concrete works including leveling courses below foundation, substructure, superstructure, chambers, cable trench, under floors and any other locations, at all levels as per drawings, specifications and directions of EIC				
	PCC 1:4:8 1 Cement: 4 Coarse sand: 8 stone aggregate 40 mm nominal size	M <sup>3</sup>	1	6354.51	6,354.51
Note:	Rate to include cost of all labour, tools ,tackles, equipment , hire charges, supply of all materials, shuttering , earth work in excavation and backfilling using approved earth in all conditions etc. with all bye works and sundry works.				
b	Reinforced Cement Concrete				
	Providing and laying reinforced of grade M-20 with 20 mm and down grade crushed stone aggregate in all types of structures like foundations, pedestals, pedestal bases, pipe supports, sleepers cable trench including construction joints, bitumen painting on surface in contact with soil, providing and fixing reinforcing steel, shuttering, inserts, finishes etc. at all depths and heights complete as per drawings , specifications and direction of the Engineer-in-Charge.	M <sup>3</sup>	1	8471.95	8,471.95
Note:	Rate to include cost of all labour, tools, tackles, equipment , hire charges, supply of all materials, such as minimum 43 grade cement including sulphate resistant cement for sub structures, R/F steel, Inserts, bolts, conduits, bitumen, other minor construction materials, shuttering tanging, earth work in excavation and backfilling using serviceable earth in all conditions shorting bailing and pumping out water, testing of concrete, curing etc. will all bye works and sundry works.				
11	Liaisoning and Permission Work:				



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a	To get permission by liaisoning / preparation of drawings from Statutory Authorities like (IMC/IDA/PWD/MPRDC), Municipal Corporation & Development Authority and submit to AGL Engineer in Charge (However necessary required documents for Permission will be given by AGL to Contractor for further submission to Authority and statutory demand charges from Authority will be paid by AGL), Job also includes getting NOC and BG return from Authorities (only if instructed to do so) after completion of work and submission to AGL Engineer in Charge. Payment shall be made towards the actual length laid.	Meters	280	51.68	14,471.15
b	To get permission for Special Crossings by liaisoning / preparation of drawings like Railway Authorities/NHAI/River/Canal/Major Nullahs and submit to AGL EIC (However necessary required documents for permission will be given by AGL to Contractor for further submission to Authority and Statutory Demand Charges from Authority will be paid by AGL). Job also includes obtaining NOC & BG from Authorities after completion of work.	Nos	0	39665.54	0.00
c	Liaison with local authorities for laying of all pipe sizes (where written permissions are not available): This SOR will be applicable for 32mm & above sizes only and areas where there is some validity related issues for earlier received permissions. Majority of the laying work has already been carried out and only few streets are pending for laying.	Meters	280	25.85	7,236.84
12	Liaisoning and Obtaining NOC from House Owners/Housing Societies:				
	To do liaisoning from House Owners/Housing Societies Job also includes getting NOC after completion of work and submission to AGL Engineer in Charge. This shall be applicable only for laying of MDPE network of any size (20mm & above) inside Housing Societies (closed campus) / Multi storied building Societies.	Meters	10	22.58	225.77
13	GI/ Copper Pipe installation				
	Supply and Installation of "C" Class GI Service Pipes with GI Fittings including elbow, Tees, Cross, Union, Socket Reducer, Nipple, End Cap, End plug, Isolation Valves, Appliance Valve and other necessary fittings, etc of NPT Thread				
	Preparation and approval of schedules , execution procedures, sketches.				
	Finalization of optimum route with consent of customer and AGL representative / TPI, from transition fitting to meter inlet.				
	Supply and Installation of GI Pipes , Fittings and Valves including NPT threading, painting as specified.				
	Supply & Fixing of approved, Clamps, Dowell Plugs with SS screws, grout material, suitable thread sealant I.e. Teflon Tape/ lock tight, drilling of holes through tiles / wood/ marble/ Granite etc . Jointing of PE to aboveground service GI pipes, testing, purging and commissioning of the complete installation.				



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	Drilling of holes through walls with proper heavy duty Hammer Drill Machine, tools & tackles, using proper sealant/ grout material & colours to match original, replacement of damages during drilling, restoring the area to original condition to the satisfaction of Owner/ EIC.				
	All above activities to be carried out as per specification to the complete satisfaction of consumer & as directed by EIC.				
	Testing, purging, commissioning, of Network; submission of as built drawing for PE line (plotting service line in main network line) and isometric drawing of GI installation duly accepted by customer and owner / owner's representative				
	Any other activity not mentioned / covered, explicitly above, but otherwise required for satisfactory completion/ safety/ statutory/ maintenance of works shall also be covered under scope of work and has to be completed by contractor within specified schedule at no extra cost to AGL.				
	Supply of all tools, tackles, Safety Harness Belt of approved quality and consumables required to execute the work in an efficient manner. Updation of daily RFC & Conversion details executed at site on daily basis in AGL portal through proper portal data entry operator. Contractor has to maintain proper data entry operator at his site office with laptop / desktop and update daily activity on AGL portal daily basis.				
13.1	Supply & Installation of "C" Class GI Service Pipes with GI Fittings including Elbow, Tees, Cross, Union, Socket, Reducer, Nipple, End Cap, End Plug, Isolation Valve, Appliance Valve and all other require fittings etc of NPT Thread (as per detailed work description stated at sr. no. 14 above)				
a	1/2" NB GI Pipe Threaded after isolation valve of Regulator piece	Meters	1640	372.94	6,11,615.54
b	1/2" NB GI Pipe welded after isolation valve of Regulator piece (forged fittings)	Meters	10	515.24	5,152.36
c	1/2" NB GI Pipe (Regulator Piece) including Isolation Valve	Meters	120	500.51	60,061.24
13.2	Supply & Installation of 1" & 3/4" NB GI Pipe & all other GI fittings, Isolation Valves, plugs etc required to execute the job (as per detailed work description stated at sr. no. 13 above)				
a	Supply & Installation of 3/4" NB GI Pipe threaded (includes installation of Isolation valve & Regulator)	Meters	5	402.38	2,011.89
b	Supply & Installation of 3/4" NB GI Pipe Welded after Isolation Valve (Forged Fittings)	Meters	5	637.91	3,189.54
c	Supply & Installation of 1 NB GI Pipe Threaded/Welded (Forged Fittings)	Meters	5	731.15	3,655.73
13.3	Online Tapping on existing charged Risers in Multi Storied Buildings (up to 4 meters)				



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	Supply and installation of GI pipe as per specifications by taking tap off from existing riser (lateral isolation valve) - The cumulative length of 1/2" powder coated GI pipe up to 4 m after lateral isolation valve up to appliance along with installation of meter, meter regulator (if required). Rates to include supply of pipe, fittings Isolation Valves (Lateral, Meter & Appliance) any other material required for execution of work, testing, purging & commissioning up to the Appliance. This SOR item shall be measured in number of Online tapping done up to Appliance. Site Coordination / Liaison with Housing Societies (if any) is included in the rates. Additional quantity above 4 Meters (GI + Cu) shall be payable only in case if cumulative length exceeds 4 m. Note- Additional length of (GI / Cu) (>4 Meters) shall be paid under separate SOR No. 14.1 (as per detailed work description stated at sr. no. 13 above)	Nos.	20	3406.90	68,138.08
14	Supply and Installation of Copper Service Pipes including Supply of Copper Pipes and Copper Fittings and GI appliance valve including Elbow, Tees, Cross, Socket, Reducer, End Cap, End Plug, Disconnect union, adopter for appliance valves, all soldering consumables , flux application and all other required fittings to complete the work				
	Preparation and approval of schedules , execution procedures, sketches.				
	Finalization of optimum route with consent of Customer & AGL representative / TPI from meter outlet to cooking oven/ appliance.				
	Making temporary but stable platforms/ scaffolding / rope ladders and all other safety devices.				
	Supply and Installation of Copper Pipes , Copper Fittings etc				
	Supply and Installation of GI Appliance Valves etc.				
	Supply & Fixing of approved, clamps, Dowell Plugs with screws, grout material, suitable thread sealant i.e. Teflon Tape/ lock tight, drilling of holes through tiles / wood/ marble/ Granite etc jointing of PE to aboveground service GI pipes, testing, purging and commissioning of the complete installation.				
	Restoring the wall surface to original by cleaning/ touching of corresponding paint to original as per instructions & to satisfaction of the owner. Preparation of laying records, meter reading etc. Reconciliation of free issue material on Monthly basis.				
	All above activities to be carried out as per specification to the complete satisfaction of Consumer & as directed by EIC.				
	Any other activity not mentioned / covered, explicitly above, but otherwise required for satisfactory completion/ safety/ statutory/ maintenance of works shall also be covered under scope of work and has to be completed by Contractor within specified schedule at no extra cost to AGL.				
	Drilling of holes through walls with proper heavy duty hammer drill Machine, tools & tackles, using proper sealant/ grout material & colours to match original,				



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	replacement of damages during drilling, restoring the area to original condition to the satisfaction of Owner/ EIC .				
	Supply of all tools, tackles and consumables required to execute the work in an efficient manner.				
a	Copper Pipe 12 mm dia X 0.6 mm Thick as per BS EN 1057	Meters	5	340.54	1,702.72
15	(Installation of Meter & Regulator) : Fixing of Meters & Regulators with associated inlet and outlet connections/ fittings including Meter Adaptors, Regulator inlet / outlet connection fittings, supply & fixing of approved meter brackets and other supports by proper scaffolding/ grouting, Restoring the area to original condition as per specification and to complete satisfaction of consumer and EIC.				
a	Domestic Meters	Nos.	80	539.77	43,181.34
Note:	Meter Inlet can be connected with Annaconda (Material SS 316)/Meter Adaptor for Domestic Meter Installation				
	All GI/Brass Fittings must be of NPT Thread.				
16	Conversion of Domestic Appliance				
	Conversion of all types of LPG kitchen appliances to NG based appliances, supply of rubber tube, changing of nozzles, jets and associated controls for domestic / commercial customers & imported appliances with proper tools & tackles.				
	Cleaning and performing minor maintenance, greasing etc of appliance, testing/ showing performance to the customer, signing of joint meter records (JMR) and instructing customer on use & safety norms, complete as per specifications & to satisfaction of Owner/ EIC.				
a	Burner	Nos.	250	74.59	18,646.82
b	Grill	Nos.	5	83.63	418.17
c	Oven	Nos.	5	83.63	418.17
d	Supply of Rubber Hose (Approved Vendor make)	Nos.	150	70.66	10,599.24
17	Repair and rectification of uncharged/damaged MDPE pipe, laid by other contractor:				
17.1	Flushing, Testing, Commissioning of any size of pipeline stretch and submission of as built autocad drawing for same. This includes supply of all material & tools tackles which is not in scope of owner like warning tapes, Trial Pit, excavation for pipeline rectification etc.(Fusion jointing of MDPE gas pipe line will be pay separately, as per SOR 17.2)	Meters	10	72.25	722.46
17.2	Fusion Jointing for pipe line connectivity(applicable only item 17.1)				
a	20 & 32 mm Dia PE Pipe	Nos.	5	90.31	451.54
b	63 & 125 mm Dia PE Pipe	Nos.	5	722.46	3,612.28
18	Supply & Installation of Service Regulator & Meter Regulator				



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18.1	Service Regulator (SR) with regulator cover and TF installation	Nos.	2	18294.30	36,588.59
18.2	Meter Regulator	Nos.	15	428.72	6,430.81
<b>Total Amount (Rs.) The Rates are inclusive of all Taxes and Duties But excluding GST which shall be paid extra @ 18%.</b>				<b>16,35,531</b>	

• The order shall be on unit rate basis as per Schedule of Rates (SOR) above. The maximum total order value under this order shall be Rs. 16,35,531 /- (Rupees Sixteen Lakh Thirty Five Thousand Five Hundred Thirty-One Only ) excluding GST for minimum 100 nos. of LMC Connections.

Applicable GST @18% shall be payable extra at actuals.

Statutory variations in taxes & duties shall be dealt with as per Clause- 9 & 10 of Section V, General Conditions of Contract -GCC, Vol I of II of Tender document (ET-7 dt. 30.07.2022).

SOR No.	Item	Description of SOR Items
1	MDPE Laying	Receiving and taking over, handling, loading, transportation and unloading of owner supplied MDPE pipes, and other free issue items from Owner's designated stock yards to Contractor's own stock-yards/ workshops/ work-sites with proper storing, stacking, identification, providing security and insurance cover.
		Preparation and getting approval of schedules, execution procedures, drawings/ sketches/ wherever required, making trial pits to determine the underground utilities/ services etc. restoration of the abandoned trial pits to original condition.
		Line marking and Grading of the ROU, barricading the work area as per AGL Safety Policy, local authorities norms & to the satisfaction of EIC, installation of safety signs and boards, trenching to required depth, repairing of all damaged utilities if any, and payment of any compensation ( if claimed by owner/ other utility agencies/third party)
		Sand/Soft Soil Padding of 75mm at the trench bottom including supply of Sand/Soft Soil
		Uncoiling & stringing of pipes, clamping, jointing of the pipe ends/ fittings/ valves by qualified personnel using approved electro-fusion techniques as per specification.
		Lowering the pipeline in trench to required depths, filling sand around and upto 75 mm from top of pipe, soft graded soil layer of 125 mm above layer of sand, insertion of carrier pipe inside the Casing pipe wherever required by AGL (Supply as per specification attached) and placement of warning mat over the pipeline along the complete route, padding around pipeline with suitable approved soil, backfilling with available excavated material after screening, compaction with jumping jack compactor and water at subsequent layers of 150 mm above warning mat. All tiles/ slabs/ curb stones etc removed during excavation shall be placed properly. Roads, pavements, footpaths etc. to be made motorable wherever pipeline is laid.
		Installation and electro fusion jointing of valves, wherever required and as directed by Engineer-in-charge.
		Restoration of area to original condition, including cleaning the area of all unserviceable materials, debris, excess earth near trenches to the designated disposal area as per instruction and complete satisfaction of local authorities /Owner/ Engineer -in- Charge.
		Restoration of all surrounding ground features to that existing before as directed by Engineer-in- charge which would also include replanting of any uprooted trees etc, if required.
		Flushing, cleaning ,Pneumatic testing, purging with nitrogen and commissioning as per specification and approved procedures with providing all tools and tackles, nitrogen, calibrated instruments, qualified manpower and other related accessories and as per the instructions of the Engineer-in Charge.
Maintaining the completed pipelines / installation for any defect / failures due to material or workmanship during defect liability period ( I.e. 12 months from date of commissioning)..		
Handing over the completed works to AGL for their operation/ use, returning of all surplus material to AGL stores, reconciliation of free issue material area wise and obtaining no objection certificate.		





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		Preparation and submission of Daily progress report, Laying Graphs on daily basis to EIC. Submission of Weekly report, Monthly Progress Report alongwith material reconciliation statement to EIC..
		Preparation and submission of As built drawings, crossings details, graphs and deviation statements before commissioning of pipelines.
		Submission of all documents required for contract closure as per instruction of EIC in numbers as mentioned in contract.
		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 schedule at no extra cost to AGL
2	Valve Chamber	Construction of Valve Chamber upto height of 1.5 Mtrs as per the Drawing & Installation, Testing & Commissioning of PE Valves in Valve Chamber. This includes Electrofusion Jointing/Tie-in with main pipeline. Chamber cover shall be pre-cast only conforming to M 35 strength.No additional charges to be paid for supply of sand in valve chamber.Chamber walls to be prepared by shoring.
3(a)	Route Markers	Supply, fabrication and installation of RCC route markers, at distance of every 50 meter, as per the attached drawings, along the route including all associated civil works such as excavation and construction in all types of soils, grouting with concrete, clearing , supply and application of approved color and quality of primer and paint, stencil letter cutting of numbers, direction, chainage etc. restoration of area to original condition and performing all works as per drawings, specification and instruction of EIC. Markers are also required to be installed at all T points of pipeline, end point of pipeline, both end at every road crossing, and as per direction of EIC.
3(b)	Warning Markers	Supply, fabrication and installation of warning pole markers, at distance of every 200 meter, as per the attached drawings, including all associated civil works such as excavation and construction in all types of soils, construction of pedestals and grouting with concrete, cleaning, stencil letter cutting and painting of numbers, direction, chainage, etc. restoration of area to original condition as per the instruction of EIC.
3(c)	Plate Markers	Pipeline Warning Sign Markers without Foundation as per Drawing (Plate Marker) . To be installed at every TF/GC point.
4	Restoration	Breaking and Restoration of the hard surfaces of roads including Asphaltting, metal, Cement concrete, bituminous, Tiles/ Slabs/ Blocks/ Curb stones / Footpath, Brick setting/ channels etc. to original condition including supply of the approved quality material required, as per AGL & local authorities norms, obtaining NOC from concerned local authorities / land owners/ third party inspection agencies designated by AGL / local authority and to the satisfaction of the Engineer-in-Charge.
5	Pipe Searching for GC	Excavation of pit for Hook up/Saddling of existing charged line at any depth for Connecting PNG Customers
6	PCC	PCC 1:4:8 1 Cement: 4 Coarse sand: 8 stone aggregate 40 mm nominal size. Rate to include cost of all labour, tools ,tackles, equipment , hire charges, supply of all materials, shuttering ,compaction earth work in excavation and backfilling using approved earth in all conditions etc. with all bye works and sundry works.
7	Liaisoning	To do liasoning from House Owners/Housing Societies/Local Authorities/Local Bodies. Job also includes getting NOC after completion of work and submission to AGL Engineer in Charge. Applicable for MDPE 20mm & 32mm dia.
8	GI Installation	Preparation and approval of schedules , execution procedures, sketches.
		Finalization of optimum route with consent of customer and AGL representative / TPI, from transition fitting to meter inlet.
		Making temporary but stable platforms/ scaffolding / rope ladders and all other safety devices for installation of GI pipes.
		Supply and Installation of GI Pipes, GI Fittings and Valves including NPT threading, painting as specified.
		Installation of owner supplied Meter & Regulators etc.



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		<p>All consumables eg. Electrodes, flux etc. for welding pipes &amp; fittings are under contractor's scope</p> <p>Supply &amp; Fixing of approved, Clamps, Dowell Plugs with SS screws, grout material, suitable thread sealant i.e. Teflon Tape/ lock tight, drilling of holes through tiles / wood/ marble/ Granite etc . Jointing of PE to aboveground service GI pipes, testing, purging and commissioning of the complete installation.</p> <p>Touch-up of damaged portion of pipe along with fittings after proper surface finish by one coat of approved primer paint and two coats of approved synthetic enamel paint complete as per specification &amp; direction of EIC. Restoring the wall surface to original by cleaning/ touching of corresponding paint to original as per instructions &amp; to satisfaction of the owner. Preparation of laying records, meter reading etc.</p> <p>Drilling of holes through walls with proper heavy duty Hammer Drill Machine, tools &amp; tackles, using proper sealant/ grout material &amp; colours to match original, replacement of damages during drilling, restoring the area to original condition to the satisfaction of Owner/ EIC.</p> <p>Supply &amp; Installation of 1/2" NB GI Pipe (Regulator Piece) including Isolation Valve and end plug. The end plug should be installed till GI plumbing work is further assigned in the same house.</p> <p>All above activities to be carried out as per specification to the complete satisfaction of consumer &amp; as directed by EIC.</p> <p>Testing, purging, commissioning, of Network submission of as built drawing for PE line (plotting service line in main network line) and isometric drawing of GI &amp; Copper installation duly accepted by customer and owner / owner's representative</p> <p>Any other activity not mentioned / covered, explicitly above, but otherwise required for satisfactory completion/ safety/ statutory/ maintenance of works shall also be covered under scope of work and has to be completed by contractor within specified schedule at no extra cost to AGL.</p> <p>Supply of all tools, tackles, Safety Harness Belt of approved quality and consumables required to execute the work in an efficient manner.</p>
9	<b>Copper Pipe Installation</b>	<p>Preparation and approval of schedules , execution procedures, sketches.</p> <p>Finalization of optimum route with consent of Customer &amp; AGL representative / TPI from meter outlet to cooking oven/ appliance.</p> <p>Making temporary but stable platforms/ scaffolding / rope ladders and all other safety devices.</p> <p>Supply and Installation of Copper Pipes , Copper Fittings etc</p> <p>Supply and Installation of GI Appliance Valves etc.</p>
10	<b>Installation of Meter &amp; Regulator</b>	<p><b>(Installation of Meter &amp; Regulator)</b> : Fixing of Meters &amp; Regulators with associated inlet and outlet connections/ fittings including Meter Adaptors, SS 316 material Anaconda, Regulator inlet / outlet connection fittings, supply &amp; fixing of approved meter brackets and other supports by proper scaffolding/ grouting, Restoring the area to original condition as per specification and to complete satisfaction of consumer and EIC. Installation with Anaconda is not mandatory.</p>
11	<b>Service Regulator</b>	<p>Supply, Testing &amp; Installation of Service Regulators and painting as per technical specification. Any other material &amp; activities not mentioned/covered above, but otherwise required for satisfactory completion/safety of work as defined in tender has to be supplied / done by contractor with in specified schedule at no extra cost to owner.</p>
12	<b>Conversion</b>	<p>Conversion of all types of LPG kitchen appliances to NG based appliances, supply &amp; changing of nozzles, rubber hose , jets and associated controls for domestic / commercial customers &amp; imported appliances with proper tools &amp; tackles.</p> <p>Cleaning and performing minor maintenance, greasing etc of appliance, testing/ showing performance to the customer, signing of joint meter records (JMR) and instructing customer on use &amp; safety norms, complete as per specifications &amp; to satisfaction of Owner/ EIC.</p> <p>Conversion: 3 days from the date of award of front after RFC</p>