GASONET SERVICES (RJ) LIMITED

Corporate Office: Unit No. 1019–1020, 10th Floor
World Trade Tower, C-1, Sector 16
Noida – 201301, Uttar Pradesh, India
CIN: U40100MH2022PLC384233

TENDER NO: GASONT/C&P/GSL/PE PNG/RJ/2026-2027/32

TENDER DOCUMENT

FOR

HIRING OF SERVICES FOR MDPE LAYING AND ASSOCIATED WORKS (LMC) FOR RJ GA.

TENDER SUBMISSION DATE	**:**	**20/11/2026 UP TO 1500 Hrs.**
TENDER OPENING DATE (Unpriced Bid Opening)	**:**	**20/11/2026 AT 1600 Hrs.**
PRE-BID MEETING DATE	**:**	**10/11/2026 AT 15:30 Hrs. (Online mode Meeting Link)**
Tender Fees	**:**	**NA**
Earnest Money Deposit	**:**	**NA**

IMPORTANT INSTRUCTION

PLEASE NOTE THAT THIS "REQUEST FOR QUOTATION [RFQ]" IS ON "ZERO-DEVIATION" BASIS. GASONET WILL ACCEPT OFFERS BASED ON THE TERMS AND CONDITIONS OF THIS "REQUEST FOR QUOTATION [RFQ] & TENDER DOCUMENT" ONLY. DEVIATION TO THE TERMS AND CONDITIONS OF THE "REQUEST FOR QUOTATION [RFQ] & TENDER DOCUMENT" MAY LEAD TO THE OFFER'S REJECTION.

"INCOMPLETE AND CONDITIONAL BIDS SHALL NOT BE CONSIDERED"

BEFORE DETAILED EVALUATION, ACCORDING TO "BID EVALUATION AND REJECTION CRITERIA", GASONET WILL DETERMINE THE SUBSTANTIAL RESPONSIVENESS OF EACH BID TO THE "RFQ & TENDER DOCUMENT". FOR THE PURPOSE OF THIS, A SUBSTANTIALLY RESPONSIVE BID CONFORMS TO ALL THE TERMS AND CONDITIONS OF THE BIDDING DOCUMENTS WITHOUT 'DEVIATIONS' OR 'RESERVATIONS/ EXCEPTIONS'. GASONET'S DETERMINATION OF A BID'S RESPONSIVENESS IS BASED ON THE CONTENT OF THE BID ITSELF, WITHOUT RECOURSE TO EXTRINSIC EVIDENCE.

'TECHNICAL' AND/ OR 'COMMERCIAL' QUERY(S), IF REQUIRED, MAY BE RAISED ON THE BIDDER(S) – THE DECISION FOR WHICH WILL BE SOLELY BASED ON CIRCUMSPECTION BY 'GASONET; HOWEVER, ISSUANCE OF REQUEST FOR SUCH 'CLARIFICATIONS' SHALL NOT BE RESORTED TO MORE THAN 'ONCE'. THE 'RESPONSE(S)' TO THE SAME SHALL BE IN WRITING, AND NO CHANGE IN THE' PRICE(S)' OR 'SUBSTANCE' OF THE BIDS SHALL BE SOUGHT, OFFERED OR PERMITTED. THE SUBSTANCE OF THE BID INCLUDES BUT NOT LIMITED TO PRICES, COMPLETION, SCOPE, TECHNICAL SPECIFICATIONS, ETC.

BIDDERS ARE REQUESTED NOT TO TAKE ANY 'DEVIATION/ EXCEPTION' TO THE TERMS AND CONDITIONS LAID DOWN IN THIS "RFQ & TENDER DOCUMENT" AND SUBMIT ALL REQUISITE DOCUMENTS AS MENTIONED IN THIS "RFQ & TENDER DOCUMENT", FAILING WHICH YOUR OFFER WILL BE LIABLE FOR REJECTION.

IF A BIDDER FAILS TO SUBMIT THE FOLLOWING DOCUMENTS, THEIR BID SHALL BE OUTRIGHTLY REJECTED:

1) **TECHNICAL & FINANCIAL BEC DOCUMENTS**
2) **EMD**
3) **FORMS & FORMATS**
4) **DIGITALLY SIGNED BID DOCUMENT, INCLUDING GCC**
5) **SUPPORTING DOCUMENTS (IF ANY)**

THE ABOVE SHOULD ALSO BE SUBMITTED BEFORE THE DEADLINE, AS MENTIONED & DETAILED ON NEXT PAGE

TABLE OF CONTENTS

SECTION-I	**INVITATION FOR BIDS [IFB]**
SECTION-II	**METHODOLOGY FOR AWARD OF CONTRACT AND EVALUATION AND COMPARISON OF BIDS, INSTRUCTIONS TO BIDDERS [ITB]**
SECTION-III	**GENERAL CONDITIONS OF CONTRACT –(ATTACHED SEPARATELY)**
SECTION-IV	**SCOPE OF WORKS AND SPECIAL CONDITIONS OF CONTRACT [SCC] AND TECHNICAL SPECIFICATION**
SECTION-V	**OTHER FORMS AND FORMATS**
SECTION-VI	**SCHEDULE OF RATES [SOR]**

SECTION – I

INVITATION FOR BIDS [IFB]

SECTION – I

INVITATION FOR BID [IFB]

TO, **DATE: 05/11/2026**
PROSPECTIVE BIDDERS

SUBJECT: MDPE LAYING AND ASSOCIATED WORKS (LMC) FOR RJ GA

TENDER NO.: GASONET/C&P/GSL/PE PNG/RJ/2026-2027/32

Dear Sir/ Madam,

1.0 INTRODUCTION

The consortium of Dinesh Engineers Ltd., Resonance Energy Pvt. Ltd., and Tolani Projects Pvt. Ltd. has been authorized by PNGRB in the 11th round of bidding for four Geographical Areas (GAs):

1. Mandi, Kullu, Kinnaur, and Lahaul & Spiti districts in the state of Himachal Pradesh.
2. Bikaner & Churu districts in the state of Rajasthan.
3. Pauri Garhwal, Uttarkashi, Rudraprayag, Tehri Garhwal districts in the state of Uttarakhand.
4. Pithoragarh, Almora, Champawat, Chamoli, and Bageshwar districts in the state of Uttarakhand.

The consortium has established three companies: Gasonet Services (HP) Ltd., Gasonet Services (UK) Ltd., and Gasonet Services (UK) Ltd. The GAs of one and two above have been transferred to Gasonet Services (HP) Ltd. and Gasonet Services (UK) Ltd., respectively. The GAs of three and four above have been transferred to Gasonet Services (UK) Ltd.

All these companies are engaged in city gas distribution to supply natural gas for domestic, automobile, industrial, and commercial purposes.

They have a corporate office at 1019-1020, World Trade, Sector 16, Noida-201301. The corporate is managed by Gasonet Services Ltd (GSL)

1.0 GSL invites bids from bidders for the subject services in complete accordance with the following details and enclosed Tender Documents.

2.0 The brief details of the tender are as follows:

(A)	NAME OF CONTRACT.	**HIRING OF SERVICES FOR LAYING OF MDPE NETWORK & LMC WORK IN RJ GA**
(B)	TENDER NO.	**GASONET/C&P/GSL/PE PNG/RJ/2026-2027/32**
(C)	TYPE OF BIDDING SYSTEM	**OPEN DOMESTIC COMPETITIVE BIDDING**
(D)	CONTRACT PERIOD/COMPLETION PERIOD	**2YEARS** **Individual completion period shall be as per respective WO.**

(E)	TENDER FEE	**Not Applicable**
(F)	BID SECURITY/ EARNEST MONEY DEPOSIT (EMD)	**Not Applicable**
(G)	DATE, TIME & VENUE OF PRE-BID MEETING	**10/11/2026 AT 03:30 Hrs, through Teams meeting** **Link below :** **Microsoft Teams meeting** **Join:** **https://teams.microsoft.com/meet/439340109869068?p=S6X2oha1qp8gnlyhul** **Meeting ID: 439 340 109 869 068** **Passcode: 7pv2AJ9q**
(H)	DUE DATE AND TIME OF BID SUBMISSION	**20/11/2026 UP TO 1500 Hrs**
(I)	TENDER OPENING DATE (UNPRICED BID OPENING)	**20/11/2026 AT 1600 Hrs**
(J)	VALIDITY OF OFFER UP TO	**90 Days from the Due Date of Bid Submission**
(K)	Bank Details for EMD / CPBG	**The contractor shall submit a CPBG against each Work Order.**
If the days specified above are holidays in GASONET, the next working day shall be implied.		

4. Bids must be submitted strictly following Clause No. 11 of ITB depending upon the Type of Tender as mentioned in Clause no. 2.0 (D) of IFB. The IFB is an integral and inseparable part of the bidding document.

5. Bidder(s) are advised to quote strictly per the tender documents' terms and conditions and not to stipulate any deviations/ exceptions.

6. Offer(s) received from bidders to whom tender/ information regarding tender has been issued and offers received from the bidder(s) by obtaining/ purchasing the tender document shall be considered for evaluation & award provided that the bidders are responsive.

~~7. Clarification(s)/ Corrigendum(s), if any, shall also be available on GASONET's website.~~

8. GASONET reserves the right to reject any or all the bids received at its discretion without assigning any reason whatsoever.

9. All bidders are requested to go through the tender and raise all the techno-commercial queries (if any) before the pre-bid meeting, **i.e. 09/11/2026**, through mail to alok.thakur@gasonet.in, kk.gupta@gasonet.in, / vineeta.pandey@gasonet.in

10. For participation, contact [C&P], E-mail ID: vineeta.pandey@gasonet.in

THIS IS NOT AN ORDER

For & on behalf of
Gasonet Services (RJ) Limited

[KK Gupta]
Head C&P

SECTION – II

METHODOLOGY FOR AWARD OF CONTRACT AND EVALUATION AND COMPARISON OF BIDS & INSTRUCTIONS TO BIDDERS [ITB]

1. The estimated SOR item rates are mentioned in the tender documents. Bidders shall quote a **single overall percentage (%) variation** (either positive or negative or at PAR) on the estimated SOR, subject to the following conditions:

a) The quoted variation shall be within the range of **+10% to -10%** of the overall estimated SOR value.

b) The quoted percentage shall be uniformly applicable to all SOR items unless otherwise specified in the tender document.

c) Any bid quoting an overall variation **exceeding +10% or below -10%** of the estimated SOR value shall be treated as **non-responsive** and **shall be summarily rejected** without any further consideration.

2. Bidders will have to quote overall variation in percentage Excess (+)/ At Par/ Less (-) on the overall offered Rates in the SOR.
3. The L-1 rates shall be obtained in such manner and would be offered to Technically/Commercially qualified bidders.
4. The rank of the empaneled vendors shall be decided, as stated: a. On the basis of higher annual turnover: The bidders (in case of multiple L1 bidders also) shall be ranked in descending order (higher to lower) on the basis of Average turnover of preceding three Financial Years.
5. In case more than one bidder is tied up at one position(even after Turn over criteria as above), then the bidders who have the higher working capital (without taking into consideration of letter of credit submitted from bank) in the last Financial Year shall be ranked higher.
6. After internal review and approval, Gasonet shall **communicate the finalized/approved rates** for the subject work to all eligible bidders for their acceptance.
7. Bidders who accept the **Gasonet-approved rates** shall be **empanelled** for the work for this tender for a period of **two (2) years**.
8. Award of work orders during the **ARC validity period of two (2) years** shall be strictly on a **need-based basis**. Gasonet does **not guarantee any minimum value or quantity of work**.
9. In the event a contractor fails to accept the **LOI/WO** after issuance within 10 days, despite having accepted the tender terms and conditions, the award shall be **cancelled**, and the contractor shall be **debarred/holiday-listed for a period of one (1) year**. The contract shall then be awarded to the **next ranked eligible bidder**.
10. The contractor shall submit a **CPBG** against each Work Order. **No relaxation** shall be permitted under any circumstances. **Retention money shall not be accepted in lieu of CPBG**.
11. Contractors shall strictly comply with all terms and conditions of the tender, and their performance shall be monitored and evaluated by Gasonet accordingly.
12. If an awarded contractor completes the assigned work **within the stipulated time and to the required performance standards**, Gasonet **may**, at its sole discretion, issue a **repeat order** up to 100% of the order value. However, the contractor shall **not have any entitlement or right** to such repeat orders, which shall remain a **management decision of Gasonet.**
13. The completion period for each individual Work Order shall be 01 (one) year, including final bill closure. The ARC shall remain valid for an initial period of 02 (two) years, with a provision for extension by 01 (one) additional year, subject to mutual consent of Gasonet and the Contractor. Any extension of the ARC shall be on the same rates and applicable terms and conditions, unless otherwise mutually agreed in writing. The issuance of Work Orders during the ARC period shall remain subject to Gasonet's requirements, availability of work and satisfactory performance of the Contractor and shall not constitute any guaranteed commitment for any minimum quantity or value of work.
14. The Contractor shall maintain valid GST registration(s) in the applicable State(s)/location(s) where required for execution of the work, in accordance with applicable statutory requirements and the tender conditions.

15. a) Initially, Gasonet intend to place the work orders on up to six technically and financially qualified contractors in the ratio of **25:20:15:15:15:10,** subject to the contractors matching the approved L1 rates.

    In case fewer than six contractors qualify or agree to match the approved L1 rates, Gasonet reserves the right to place the Work Order(s) with the remaining qualified contractor(s), subject to their technical and financial competency and the applicable approved rates.

    b) In case of five contractor then the ratio will be 30:20:20:15:15**,** In case of 04 Contractor then the ratio will be **35:25:20:20**. In case of 03 Contractor then the ratio will be **50:30:20**, in case of 2 contractors then ration will **be 60;40.**
16. Existing contractors engaged with Gasonet in the Rajasthan (RJ) GA whose performance has been assessed as unsatisfactory by the concerned GA Head/EIC or Gasonet Management shall not be eligible to participate in this tender. If such contractors participate in the tender, their bids shall be rejected.
17. Existing contractors whose contract validity has expired or whose work has been completed, but the formalities for contract/work order closure have not been completed by the contractor within 90 days from the date of contract expiry/work completion, as applicable, with the concerned GA Head/EIC for the respective GA, shall not be eligible to participate in this tender. If such contractors participate in the tender, their bids shall be rejected.

BID EVALUATION CRITERIA

SL.NO	BEC (Technical)	Document (s) required to quality BEC (Technical)
A.1 (i)	The bidder should have executed/completed at least one single work order of similar works of minimum value of Rs. **5.20 Cr (Incl GST)** in the preceding 7 (seven) years reckoned from the bid due date (or) two work orders of similar works of minimum value of Rs. **3.12 Cr (Incl GST)** in the preceding 7 (seven) years reckoned from the bid due date or three work orders of similar works of minimum value of Rs. **2.60 Cr (Incl GST)** in the preceding 7 (seven) years reckoned from the bid due date **Definition of similar works:** City Gas Distribution Projects having Laying of MDPE Pipeline Network **/** Laying of MDPE Pipelines & GI including last mile connectivity (LMC)	Copy of: (a) Detailed work order along with Schedule of Rates. (b) Completion certificate/ payment certificate issued by client /or Service Entry Sheet(s) issued by end user / Owner. Note: (i) The completion certificate shall have details like work order no. / date, brief scope of work, completion date etc. (iii) In case of a running contract, Execution certificate submitted by a bidder against work contracts shall also be considered in place of completion certificate for meeting the required experience criteria one day before the bid due date of min value as required.

		Note: The completion certificate/execution certificate issued on Letter head of the End user / Owner (or their consultant who has been duly authorized by owner to issue such certificate) shall have details like work order no. with date, brief scope of work, completion date, quantity (completed/executed), contract value, executed value*, name and designation of authorized signatory etc.

(ii)	Jobs executed for Subsidiary / Fellow subsidiary / Holding company.	Tax paid invoice(s) duly certified by statutory auditor of the bidder towards payment of statutory tax in support of the job executed for Subsidiary / Fellow Subsidiary/ Holding Company.
(iii)	Experience against Running Contract. execution of	(a) Copy of WO/LOA/Contract (along with SOR) in the name of bidder issued by the end user/owner/authorized consultant clearly indicating Name of Work, Contract Value, Contract Duration, Date of Work Order.
		(b) Copy of Execution Certificate or equivalent (against the running rate/maintenance contract) clearly mentioning the reference to Work Order/LOA/Contract/Agreement No., executed value till one day prior to due date for bid submission, which must be equal to or more than the minimum prescribed value mentioned in BEC Technical Criteria
		Note- The execution certificate or equivalent should have been issued by the end user/owner/authorized consultant.

NOTE:

I. **For the purpose of determining the value of similar work, the value of work executed shall be brought to current costing level by enhancing the actual value of work at simple rate of seven percent per annum, calculated from the date of completion to the date of Bid opening.**

II. A job completed by a bidder as a sub-contractor shall also be considered for the purpose of meeting the experience criteria of BEC, subject to submission of following documents in support of meeting the " Bid Evaluation Criteria".

1. Documentary evidence/certificate by the end-User/ Owner /PMC, with regards to approval of bidder/ engaging bidder/execution by the bidder as a sub-contractor to the main contractor.
2. Work Order and completion certification indicating the value of works and date of completion issued by main contract (including SOR, wherever required for establishing scope of work)

III. A Job executed by a Bidder for its own plant/ project cannot be considered as experience for the purpose of meeting BEC of the tender. However, jobs executed for Subsidiary/Fellow subsidiary / Holding company will be considered as experience for the purpose of meeting BEC subject to submission of tax paid invoice (s) duly certified by Statutory Auditor of the Bidder towards payments of statutory tax in support of the job executed for Subsidiary/Fellow subsidiary/ Holding company. Such Bidders to submit these documents in addition to the documents specified to meet BEC.

IV. In case the bidder is executing a contract of above nature which is still running and the contract executed value till one day prior to the due date of submission is equal to or more than the minimum prescribed value or no. of connections, as mentioned above, such experience will also be taken into consideration provided that the bidder has submitted satisfactory work execution certificate to this effect issued by the end user / owner /authorized consultant.

V. Bids of joint venture/ Consortium will not be acceptable.

B. ***FINANCIAL BEC CRITERIA***

SL.NO	BEC (FINANCIAL)	Document (s) required to quality BEC (Financial)
(i)	**Average Annual Turnover** The average annual turnover of the bidder should be equal to or more **Rs 10.40 Cr** in three (03) preceding financial years (i. e. **FY 2023-24, 2024-25 & 2025-26) of the bidder.** **Net worth** Net worth of the bidder shall be Positive as per the last audited financial statement. **Working Capital-** The min. working capital of the bidder should be equal to or more **Rs 5.20 Cr in any of the last FY.**	**Average Annual Turnover:** Audited Financial statements including Balance sheet, Profit & Loss Account etc. for three preceding financial years. In case the tenders having the due date of submission of bid up to 30th September 2026, and audited financial results of the immediate 3 preceding financial years are not available, the bidder has an option to submit the audited financial results of the 3 years immediately prior to that. Wherever the closing date of the bid is after 30th September 2026 bidder has to compulsorily submit the audited financial results for the immediate 3 preceding financial years. **Net Worth:** Audited Financial statements including Balance Sheet, Profit & Loss Account etc. for immediately preceding financial years.

[FOR STRICT COMPLIANCE]

[I] BIDDERS MUST FURNISH ALL RELEVANT CERTIFICATES/ DOCUMENTS/ INFORMATION IN SUPPORT OF THEIR CREDENTIALS TO THE ABOVE "ELIGIBILITY CRITERIA" ALONG WITH THE 'OFFER', FAILING WHICH THE 'OFFER' MAY BE REJECTED SUMMARILY.

[II] BIDDERS NOT MEETING ANY OF THE CRITERIA MENTIONED ABOVE SHALL BE REJECTED WITHOUT ASSIGNING ANY REASON.

.....

SECTION – II

Table of Contents
[Instructions to Bidders] [ITB]

[A] GENERAL

1. SCOPE OF BID
2. ELIGIBLE BIDDERS
3. BIDS FROM CONSORTIUM/ JOINT VENTURE
4. ONE BID PER BIDDER
5. COST OF BIDDING & TENDER FEE
6. SITE – VISIT

[B] BIDDING DOCUMENTS

7. CONTENTS OF BIDDING DOCUMENTS
8. CLARIFICATION OF BIDDING DOCUMENTS
9. AMENDMENT OF BIDDING DOCUMENTS

[C] PREPARATION OF BIDS

10. LANGUAGE OF BID
11. DOCUMENTS COMPRISING THE BID
12. SCHEDULE OF RATES/ BID PRICES
13. GOODS AND SERVICES TAX
14. BID CURRENCIES
15. BID VALIDITY
16. EARNEST MONEY/ BID SECURITY
17. PRE-BID MEETING
18. FORMAT AND SIGNING OF BID
19. ZERO DEVIATION AND REJECTION CRITERIA
20. E-PAYMENT

[D] SUBMISSION OF BIDS

21. SUBMISSION, SEALING AND MARKING OF BIDS
22. DEADLINE FOR SUBMISSION OF BIDS
23. LATE BIDS
24. MODIFICATION AND WITHDRAWAL OF BIDS

[E] BID OPENING AND EVALUATION

25. EMPLOYER'S RIGHT TO ACCEPT ANY BID AND TO REJECT ANY OR ALL BIDS
26. BID OPENING
27. CONFIDENTIALITY
28. CONTACTING THE EMPLOYER
29. EXAMINATION OF BIDS AND DETERMINATION OF RESPONSIVENESS
30. CORRECTION OF ERRORS
31. CONVERSION TO SINGLE CURRENCY FOR COMPARISON OF BIDS

32. EVALUATION AND COMPARISON OF BIDS
33. COMPENSATION FOR EXTENDED STAY
34. PURCHASE PREFERENCE

[F] AWARD OF CONTRACT

35. AWARD
36. NOTIFICATION OF AWARD/ FAX OF ACCEPTANCE [FOA]
37. SIGNING OF AGREEMENT
38. CONTRACT PERFORMANCE SECURITY/ SECURITY DEPOSIT
39. PROCEDURE FOR ACTION IN CASE CORRUPT/ FRAUDULENT/ COLLUSIVE/ COERCIVE PRACTICES
40. PUBLIC PROCUREMENT POLICY FOR MICRO AND SMALL ENTERPRISE
41. AHR ITEMS
42. VENDOR EVALUATION PROCEDURE
43. INCOME TAX & CORPORATE TAX
44. SETTLEMENT OF DISPUTES BETWEEN GOVERNMENT DEPARTMENT AND ANOTHER AND ONE GOVERNMENT DEPARTMENT AND PUBLIC ENTERPRISE AND ONE PUBLIC ENTERPRISE AND ANOTHER
45. DISPUTE RESOLUTION
46. BILLING SYSTEM
47. TRANSPARENCY
48. CONTRACTOR'S SUBORDINATE STAFF AND THEIR CONDUCT
49. SALE OF BID DOCUMENTS
50. QUANTITY VARIATION
51. SUBLETTING & ASSIGNMENT
52. DIRECT PAYMENTS TO SUB-VENDORS/ SUPPORTING AGENCIES OF THE MAIN CONTRACTOR
53. CHECK MEASUREMENT

[G] ANNEXURES

1. ANNEXURE-I: PROCEDURE FOR ACTION IN CASE CORRUPT/ FRAUDULENT/ COLLUSIVE/ COERCIVE PRACTICES
2. ANNEXURE-II: PROCEDURE FOR EVALUATION OF PERFORMANCE OF VENDORS/ SUPPLIERS/ CONTRACTORS/ CONSULTANTS
3. ANNEXURE-III: BIDDING DATA SHEET (BDS)

INSTRUCTIONS TO BIDDERS [ITB]

[TO BE READ IN CONJUNCTION WITH BIDDING DATA SHEET (BDS)]

[A] – GENERAL

1 SCOPE OF BID

1.1 The Employer/ GASONET, defined in the "General Conditions of Purchase [GPC]", wishes to receive the Bid as described in the Bidding Document/ Tender document issued by Employer/ Owner / GASONET.

1.2 SCOPE OF BID: The scope of Supply shall be as defined in the Bidding documents.

1.3 The successful bidder will be expected to complete the scope of the Bid within the period stated in Special Conditions of the Contract.

1.4 Throughout the Bidding Documents, the terms 'Bid', 'Tender' & 'Offer' and their derivative [Bidder/ Tenderer, Bid/ Tender/ Offer etc.] are synonymous. Further, 'Day' means 'Calendar Day' and 'Singular' also means 'Plural'.

2 ELIGIBLE BIDDERS

2.1 The Bidder shall not be under a declaration of ineligibility by Employer for Corrupt/ Fraudulent/ Collusive/ Coercive practices, as defined in "Instructions to Bidders [ITB], Clause No. 39" (Action in case Corrupt/ Fraudulent/ Collusive/ Coercive Practices).

2.2 The Bidder is not put on 'Holiday' by GASONET or Public Sector Project Management Consultant (like EIL, Mecon only due to "poor performance" or "corrupt and fraudulent practices') or banned/ blacklisted by Government department/ Public Sector on the due date of submission of bid. Further, neither the bidder nor their allied agency(ies) (as defined in the Procedure for Action in case of Corrupt/ Fraudulent/ Collusive/ Coercive Practices) are on the banning list of GASONET or the Ministry of Petroleum and Natural Gas.

If the bidding documents were issued inadvertently/ downloaded from the website, offers submitted by such bidders shall not be considered for opening/ evaluation/ Award and will be returned immediately to such bidders.

If there is any change in the declaration's status before the contract's award, the bidder must promptly inform GASONET of the same.

It shall be the sole responsibility of the bidder to inform GASONET in case the bidder is put on 'Holiday' by GASONET or Public Sector Project Management Consultant (like EIL, Mecon, Resonance. Only due to "poor performance" or "corrupt and fraudulent practices") or banned/ blacklisted by Government department/ Public Sector on the due date of submission of bid and during finalization of the tender. Concealment of the facts shall be tantamount to misrepresentation of facts and shall lead to action against such Bidders as per clause 39 of ITB.

2.3 The Bidder should not be under any liquidation court receivership or similar proceedings on the due date of bid submission.

If there is any change in the declaration's status before the contract's award, the bidder must promptly inform GASONET of the same.

It shall be the bidder's sole responsibility to inform GASONET if the bidder is under any liquidation court receivership or similar proceedings on the due date of submission of the bid and during the finalization of the tender. Concealment of the facts shall be tantamount to misrepresentation of facts and shall lead to action against such Bidders as per clause no. 39 of ITB.

2.4 Bidder shall not be affiliated with a firm or entity:

(i) That has provided consulting services related to the work to the Employer during the preparatory stages of the work or of the project of which the jobs/ services form a part or

(ii) That has been hired (proposed to be engaged) by the Employer as an Engineer/ Consultant for the contract.

2.5 Neither the firm/ entity appointed as the Project Management Consultant (PMC) for a contract nor its affiliates/JV's/ Subsidiaries shall be allowed to participate in the tendering process unless it is the sole Licensor/ Licensor nominated agent/ vendor.

2.6 According to the qualification criteria outlined in the bidding document, the Bidder shall furnish all necessary supporting documentary evidence to establish the Bidder's claim of meeting qualification criteria.

2.7 Power of Attorney:

Power of Attorney to be issued by the bidder in favour of the authorized employee (s), in respect of the particular tender, to sign the document, including the bid, all subsequent communications, agreements, documents, etc., about the tender and act and take any decision on behalf of the bidder (including Consortium). Any consequence resulting from such signing shall be binding on the Bidder (including Consortium).

(I) In the case of a Single Bidder, the Power of Attorney shall be issued as per the constitution of the bidder as below:

- In case of Proprietorship: by Proprietor
- In case of Partnership: by all Partners or Managing Partner
- In case of Limited Liability Partnership: by any bidder's employee authorized in terms of Deed of LLP
- In case of Public / Limited Company: PoA in favour of authorized employee(s) by the Board of Directors through Board Resolution or by the designated officer authorized by the Board. The Board Resolution should be countersigned by the Company Secretary / MD / CMD / CEO.

(II) In the case of a Consortium, Power of Attorney shall be issued by the Consortium's Leader and Consortium Member(s) as per the procedure defined above in favour of the Leader of the Consor employeetium.

A power of attorney should be valid until the successful bidder's contract/order is awarded.

3 <u>BIDS FROM "JOINT VENTURE"/"CONSORTIUM" [</u>FOR APPLICABILITY OF THIS CLAUSE, REFER BIDDING DATA SHEET (BDS) – **NOT ALLOWED FOR THIS INSTANT TENDER]**

3.1 Bids from consortium/ JV of two or more members are acceptable provided they fulfil the qualification criteria and

3.1 requirements stated in the Bidding Documents. Participating Consortium/ JV shall submit the Agreement as per the format F-17, clearly defining the scope and responsibility of each member. Members of consortium/ JV shall assume responsibility jointly & severally. The bid security shall be submitted by the Bidder (Consortium/ JV).

3.2 The Consortium/ JV Agreement must clearly define the leader/ lead partner, who shall be responsible for the timely completion of work/ services and shall receive/ send instructions for and on behalf of the consortium during the period the bid is under evaluation as well as during the execution of the contract.

3.3 All the members shall authorize the representative from the lead partner by submitting a Power of attorney (on a non-judicial stamp paper of appropriate value) signed by legally authorized signatories of all the member(s). The bid must accompany such authorization. The authorized signatory shall sign all the documents relating to the tender/ contract. However, payment shall be made to the consortium in case of award.

3.4 A consortium/ JV, once established at the time of submitting the Bid, shall not be allowed to be altered concerning constituting members of the JV/ Consortium or their respective roles/ scope of work, except if and when required in writing by the owner. If during the evaluation of bids, a consortium/ JV proposes any alteration/ changes in the orientation of consortium/ JV or replacements or inclusions or exclusions of any partner(s)/ member(s) which had initially submitted the bid, bid from such a consortium/ JV shall be liable for rejection.

3.5 Any member of the consortium/ JV shall not be eligible either in an individual capacity or be a part of any other consortium/ JV to participate in this tender. Further, no member of the consortium/ JV shall be put on 'Holiday' by GASONET or Public Sector Project Management Consultant (like EIL, Mecon only due to "poor performance" or "corrupt and fraudulent practices") or banned/ blacklisted by Government department/ Public Sector on the due date of submission of bid. Offer submitted by such consortium/ JV shall not be considered for opening/ evaluation/ Award.

4 ONE BID PER BIDDER

4.1 A Firm/ Bidder shall submit only 'one [01] Bid' in the same Bidding Process. A Bidder who submits or participates in more than 'one [01] Bid' will cause all the proposals which the Bidders have experienced to be disqualified.

4.2 Alternative Bids shall not be considered.

5 COST OF BIDDING & TENDER FEE

5.1 COST OF BIDDING

The Bidder shall bear all costs associated with the preparation and submission of the Bid, including but not limited to Bank charges for all courier charges, including taxes & duties, etc. incurred. Further, GASONET will not be responsible or liable for these costs, regardless of the outcome of the bidding process.

~~5.2 TENDER FEE [IF APPLICABLE]~~

~~5.2.1 Tender Fee, if applicable, will be acceptable as 'crossed payee accounts only' Demand Draft/Banker's Cheque payable to GASONET. The Tender Fee is to be submitted along with the bid. Offers sent without payment of the requisite Tender Fee will be ignored straightaway.~~

~~5.2.2 If a particular tender is cancelled, the tender fee will be refunded to the concerned bidders without any interest charges. The Owner shall entertain no plea in this regard.~~

~~5.2.3 SMEs (Small and Micro Enterprises) are exempted from submission of Tender fees following the provisions of the Public Procurement Policy for MSE-2012 and Clause 40 of ITB. The Government Departments/ PSUs are also exempted from the payment of tender fees.~~

5.2.4 NON-TRANSFERABILITY OF THE BID DOCUMENTS- Bid document is non-transferable.

6 SITE VISIT -

6.1 The Bidder is advised to visit and examine the site of works and its surroundings and obtain for itself on its responsibility all information that may be necessary for preparing the Bid and entering into a Contract for the required job. The Bidder shall bear the costs of visiting the site.

6.2 The Bidder or any of its personnel or agents shall be granted permission by the Employer to enter upon its premises and land for such visits, but only upon the express conditions that the Bidder, its personnel and agents will release and indemnify the Employer and its personnel, agents from and against all liabilities in respect thereof, and will be responsible for death or injury, loss or damage to property, and any other loss, damage, costs, and expenses incurred as a result of inspection.

6.3 The Bidder shall not be entitled to hold any claim against GASONET for non-compliance due to lack of any pre-requisite information as it is the sole responsibility of the Bidder to obtain all the necessary information concerning site, surrounding, working conditions, weather etc., on its own before submission of the bid.

6.4 Bidder can jointly visit site with representative of GSL.

GA	GA Head/Project Head	Contact Details
UK - East	Mr. Mukesh Dandriyal	mukesh.dandriyal@gasonet.in +91-7574930059
UK – West	Mr. Mukesh Dandriyal	mukesh.dandriyal@gasonet.in +91-7574930059
Rajasthan	Mr. Budhram Siyag	budhram.siyag@gasonet.in 91-9981529155
Himachal Pradesh	Mr. GP Barua	ganga.barua@gasonet.in 91-8923198035

[B] - BIDDING DOCUMENTS

7 CONTENTS OF BIDDING DOCUMENTS

7.1 The contents of Bidding Documents/ Tender Documents are those stated below and should be read in conjunction with any 'Addendum/ Corrigendum' issued following "ITB: Clause-9":

- Section – I: Invitation for Bids [IFB]
- Section – II: Bidder's Eligibility Criteria [BEC] & Methodology For Evaluation And Comparison Of Bids, Instructions Bidders [ITB]
- Section – III: General Conditions of Contract Goods [GCC – GOODS]
- Section – IV: Scope of Supply including Technical Specifications and SCC
- Section – V: Other Forms and Formats
- Section – VI: Schedule of Rates [SOR]

* Request for Quotation, wherever applicable, shall also form part of the Bidding Document.

7.2 The Bidder must examine all instructions, forms, terms & conditions in the Bidding Documents. The "Request for Quotation [RFQ] & Invitation for Bid (IFB)", together with all its attachments, shall be considered to be read, understood and accepted by the Bidders. Failure to furnish all information required by the Bidding Documents or submission of a Bid not substantially responsive to the Bidding Documents in every respect will be at Bidder's risk. It may result in the rejection of his Bid.

8 CLARIFICATION OF BIDDING DOCUMENT

8.1 A prospective Bidder requiring any clarification(s) of the Bid Documents may notify GASONET in writing or by fax or e-mail at **GASONET's mailing address as indicated in the BDS, no later than 02 (two) days before pre-bid meeting (in cases where pre-bid meeting is scheduled) or 05 (five) days before the bid closing date in cases where pre-bid meeting is not held. GASONET reserves the right to ignore the bidder's request for clarification if received after the period above**. GASONET may respond in writing to the request for clarification. GASONET's response, including an explanation of the query, but without identifying the source, will be uploaded on GASONET's website [www.Gasonet.co.in]/ communicated to prospective bidders by e-mail/ fax.

8.2 Any clarification or information required by the Bidder but not received by the Employer at clause 8.1 (refer BDS for address) above is liable to be considered as "no clarification/ information required".

9 AMENDMENT OF BIDDING DOCUMENTS

9.1 At any time before the 'Bid Due Date', the Owner may modify the Bidding Documents by addenda/corrigendum for any reason at its initiative or in response to a clarification requested by a prospective Bidder, modify the Bidding Documents by addenda/ corrigendum.

9.2 Any addendum/ corrigendum thus issued shall be part of the Bidding Documents and may be hosted on the Gasonet website [www.Gasonet.in] only.

9.3 If considered necessary, the Employer may extend the Bid submission date to allow the Bidders a reasonable time to furnish their most competitive bid considering the amendment issued.

[C] – PREPARATION OF BIDS

10 LANGUAGE OF BID

The bid prepared by the bidder and all correspondence/ drawings and documents relating to the bid exchanged by the bidder and GASONET shall be written in English alone. **Any printed literature furnished by the bidder may be written in another language as long as it is accompanied by an ENGLISH translation duly authenticated by the Chamber of Commerce of the bidder's country, in which case, for interpretation of the bid, the ENGLISH translation shall govern.**

In the event of submission of any document/ certificate by the Bidder in a language other than English, the English translation of the same duly authenticated by the Chamber of Commerce of Bidder's country shall be submitted by the Bidder.

11 DOCUMENTS COMPRISING THE BID [MANUAL & E-TENDER]

11.1 **In case the Bids are invited under the Manual Two Bid system**. The Bid prepared by the Bidder shall comprise the following components sealed in 2 different envelopes:

11.1.1 **ENVELOPE-I: "TECHNO-COMMERCIAL/ UN-PRICED BID"** shall contain the following:

- 'Covering Letter' on Bidder's 'Letterhead' clearly specifies the enclosed contents.
- 'Bidder's General Information', as per 'Form F- 1'.
- 'Bid Form', as per 'Form F-2
- Copies of documents, as required
- To confirm that the prices are quoted in the requisite format complying with the requirements, a copy of the Schedule of Rate (SOR) with prices blanked out mentioning quoted/ note quoted (as applicable) written against each item.
- 'Letter of Authority' on the Letter Head, as per 'Form F-5'
- 'No Deviation Confirmation', as per 'Form F-6'
- 'Bidder's Declaration regarding Bankruptcy', in 'Form F – 7'
- ‘Agreed Terms and Conditions; as per ‘Form F-10’
- Duly attested documents following the "BID EVALUATION CRITERIA [BEC]" establishing the qualification.
- Undertaking on the Letterhead, as per Form F – 12.
- Power of Attorney for authorized signatory in non-judicial stamp paper/ copy of Board Resolution, the authorized signatory shall be signing the bid and any consequence resulting from such signing shall be binding on the bidder.
- Any other information/ details required as per the Bidding Document
- EMD/ Bid Security in original as per Clause 16 of ITB
- All forms and Formats, including Annexure
- Initial Tender Fee (if applicable)

- List of consortium/ JV member (s), if any, and Consortium Agreement (as per format) clearly defining their involvement & responsibility in this work, wherever applicable as specified elsewhere in the IFB/ RFQ/ BEC.- **[NOT ALLOWED IN THIS INSTANT TENDER]**
- The Tender Document was duly signed/digitally signed by the Authorized Signatory.
- An additional document is specified in the Bidding Data Sheet (BDS).

Note: All the pages of the Bid must be signed by the "Authorized Signatory" of the Bidder.

11.1.2 ENVELOPE – II: Price Bid [IN CASE OF MANUAL BID ONLY]

The bidders shall submit the Price Bids in PDF format per the SOR and Un-Priced Bids. Price bid PDF shall be encrypted with a password. Password shall be 12 (Tweleve) alphanumeric characters long. The price bid of any bidder who submits a PDF without password encryption shall be summarily rejected.

Passwords shall be e-mailed separately by bidders Gasonet as per the following instructions.

a	The first three characters of the password shall be e-mailed to the VP (Finance)	Pallipallavi.aggarwal@gasonet.in
b	The following Next three Characters of the password shall be e-mailed to the VP (E&P)	alok.thakur@gasonet.in
c	The following Next three Characters of the password shall be e-mailed to Deputy Manager (C&P)	vineeta.pandey@gasonet.in
d	The last three Characters of the password shall remain with bidder	With Bidder itself.

i) The Prices are to be submitted strictly per the Schedule of Rate of the bidding documents. GASONET shall not be responsible for any failure of the bidder to follow the instructions.

ii) Bidders are advised NOT to mention Rebate/ Discount separately in the SOR format or anywhere else in the offer. In case Bidder(s) intend to offer any Rebate/ Discount, they should include the same in the item rate(s) itself under the "Schedule of Rate (SOR)" and indicate the discounted unit rate(s) only.

iii) If any unconditional **rebate** has been offered at the quoted rate, the same shall be considered in arriving at the evaluated price. However, no cognizance shall be taken for any conditional discount to assess the bids.

iv) In case it is observed that any of the bidder(s) has/ have offered suo-moto Discount/ Rebate after opening an unpriced bid but before opening price bids, such discount/ rebate(s) shall not be considered for evaluation. However, in the event of the bidder emerging as the lowest evaluated bidder without considering the discount/ rebate(s), then such discount/ rebate(s) offered by the bidder shall be considered for Award of Work, and the same will be conclusive and binding on the bidder.

v) In the event as a result of techno-commercial discussions or according to seeking clarification/ confirmations from bidders while evaluating the un-priced part of the bid, any of the bidders submits a sealed envelope stating that it contains revised prices, such bidder(s) will be requested to withdraw the adjusted prices failing which the bid will not be considered for further evaluation.

vi) If any bidder does not quote for any item(s) of the "Schedule of Rates" and the estimated price impact is more than 10% of the quoted price, the bid will be rejected. If such price impact of unquoted items is 10% or less of his quoted price, then the unquoted item(s) shall be loaded at the highest price quoted by the other bidders. If such a bidder happens to be the lowest evaluated bidder, the price of unquoted items shall be considered included in the quoted bid price.

11.2 In case of bids invited under a *single bid system*, a single envelope containing all documents specified in Clause 11.1.1 & 11.1.2 of ITB above forms the BID. All corresponding conditions specified in Clause 11.1.1 & 11.1.2 of ITB shall become applicable in such a case.

12 SCHEDULE OF RATES/ BID PRICES

12.1 Unless stated otherwise in the Bidding Documents, the Contract shall be for the works described in the Bidding Document, based on the rates and prices submitted by the Bidder and accepted by the EMPLOYER. The prices quoted by the Bidders will include all taxes except **GST (CGST & SGST/ UTGST or IGST).**

12.2 Prices must be filled in the format for 'Schedule of Rates [SOR]' enclosed as part of the Tender Document. If quoted in separate typed sheets and any variation in item description, unit or quantity is noticed, the bid will be rejected.

12.3 Bidder shall quote for all the items of "SOR after careful analysis of the cost involved for the performance of the completed item considering all parts of the Bidding Document. In case any activity though specifically not covered in the description of the item under 'SOR' but is required to complete the works as per Specifications, Scope of Work/ Service, Standards, General Conditions of Contract ("GCC"), Special Condition of Contract ("SCC") or any other part of Bidding Document, the prices quoted shall deem to be inclusive of cost incurred for such activity.

12.4 All duties, taxes and other levies [if any] payable by the Contractor under the Contract or for any other cause except final **GST (CGST & SGST/ UTGST or IGST)** shall be included in the rates/prices and the total bid-price submitted by the Bidder. The applicable rate of **GST (CGST & SGST/ UTGST or IGST)** on the contract value shall be indicated in the Agreed Terms & Conditions (Format – F10) and SOR.

12.5 Prices quoted by the Bidder shall remain firm, fixed, and valid until completion of the Contract and will not be subject to variation on any account. Any new taxes and duties, if imposed by the State/ Govt. of India after the due date of bid submission but before the Contractual Delivery Date, shall be reimbursed to the contractor on submission of documentary evidence for proof of payment of State/ Govt. Authorities and after ascertaining its applicability concerning the contract.

12.6 The Bidder shall quote the prices both in 'figures' & words. There should not be any discrepancy between the prices indicated in the figures and the prices shown in words. In case of any discrepancy, the same shall be dealt with as per clause no.3 of ITB.

12.7 Further, the Bidder shall also mention the **Service Accounting Codes** (SAC) at the designated place in SOR.

13 GOODS AND SERVICES TAX (CGST & SGST/ UTGST Or IGST)

13.1 Bidders must submit a notarized copy of the GST Registration Certificate while submitting the bids wherever **GST (CGST & SGST/ UTGST or IGST)** is applicable.

13.2 Quoted prices should include all taxes and duties, except **GST (CGST & SGST/ UTGST or IGST)**. Please note that the GST payment responsibility **(CGST & SGST/ UTGST or IGST)**

It lies with the supplier of goods/services only. Supplier of Goods/ Services (Service Provider) providing taxable service shall issue an Invoice/ Bill as the case may be, as per rules/regulations of GST. Further, returns and details required to be filled under GST laws & regulations should be timely filed by the Supplier of Goods/ Services (Service Provider) with the requisite information.

Payments to the Service Provider for claiming **GST (CGST & SGST/ UTGST or IGST)** will be made provided the above formalities are fulfilled. Further, GASONET may seek copies of challan and certificate from Chartered Accountant for deposit of **GST (CGST & SGST/ UTGST or IGST)** collected from the Owner.

13.3 In case CBEC (Central Board of Excise and Customs)/ any equivalent government agency brings to the notice of GASONET that the Supplier of Goods/ Services (Service Provider) has not remitted the amount towards **GST (CGST & SGST/ UTGST or IGST)** collected from GASONET to the government exchequer, then, that Supplier of Goods/ Services (Service Provider) shall be put under Holiday list of GASONET for six months as mentioned in Procedure for Evaluation of Performance of Vendors/ Suppliers/ Contractors/ Consultants.

13.4 In case of statutory variation in GST (CGST & SGST/ UTGST or IGST), other than due to a change in turnover, payable on the contract value during the contract period, the Supplier of Goods/ Services (Service Provider) shall submit a copy of the 'Government Notification' to evidence the rate as applicable on the Bid due date and on the date of revision.

Beyond the contract period, in case GASONET is not entitled to input tax credit of **GST (CGST & SGST/ UTGST or IGST),** then any increase in the rate of **GST (CGST & SGST/ UTGST or IGST)** beyond the contractual delivery period shall be to Service Provider's account. In contrast, any decrease in the rate **GST (CGST & SGST/ UTGST or IGST)** shall be passed on to the Owner.

Beyond the contract period, in case GASONET is entitled to input tax credit of **GST (CGST & SGST/ UTGST or IGST). S**tatutory variation in applicable **GST (CGST & SGST/ UTGST or IGST)** on supply and incidental services shall be to GASONET's account.

Claim for payment of **GST (CGST & SGST/ UTGST or IGST)/** Statutory variation should be raised within two [02] months from the date of issue of 'Government Notification' for payment of differential (in%) **GST (CGST & SGST/ UTGST or IGST),** otherwise, claim in respect of above shall not be entertained for payment of arrears.

The base date to apply statutory variation shall be the Bid Due Date.

13.5 Where the GASONET is entitled to avail the input tax credit of **GST (CGST & SGST/ UTGST or IGST):-**

13.5.1 Owner/ GASONET will reimburse the **GST (CGST & SGST/ UTGST or IGST)** to the Supplier of Goods/ Services (Service Provider) at actual against submission of Invoices as per the format specified in rules/ regulation of GST to enable Owner/ GASONET to claim an input tax credit of **GST (CGST & SGST/ UTGST or IGST)** paid. In case of any variation in the executed quantities, the amount on which the **GST (CGST & SGST/ UTGST or IGST)** is applicable

shall be modified in the same proportion. Suppliers should timely file returns and details required to be filled under GST laws & rules with requisite details.

13.5.2 The input tax credit of **GST (CGST & SGST/ UTGST or IGST)** quoted shall be considered for evaluation of bids, per the tender document's evaluation criteria.

13.6 Where the GASONET is not entitled to avail/ take the total input tax credit of **GST (CGST & SGST/ UTGST or IGST):-**

13.6.1 Owner/ GASONET will reimburse **GST (CGST & SGST/ UTGST or IGST)** to the Supplier of Goods/ Services (Service Provider) at actual against submission of Invoices as per format specified in rules/ regulation of GST subject to the ceiling amount of **GST (CGST & SGST/ UTGST or IGST)** as quoted by the bidder, subject to any statutory variations, except variations arising due to change in turnover. In case of any variation in the executed quantities (If directed and certified by the Engineer), the ceiling amount on which **GST (CGST & SGST/ UTGST or IGST)** is applicable will be modified on a pro-rata basis.

13.6.2 The bids will be evaluated based on the total price, including applicable **GST (CGST & SGST/ UTGST or IGST)**

13.7 GASONET will prefer to deal with registered suppliers of goods/ services under GST. Therefore, bidders are requested to register under GST; it is not registered yet.

However, if any unregistered bidder submits, their prices will be loaded with applicable GST (CGST & SGST/ UTGST or IGST) while evaluating the bid. Where GASONET is entitled to an input credit of **GST (CGST & SGST/ UTGST or IGST)**, the same will be considered for evaluation of the bid as per the evaluation methodology of the tender document.

13.8 In case GASONET is required to pay entire/specific portion of applicable **GST (CGST & SGST/ UTGST or IGST)** and remaining amount, if any, is to be deposited by Bidder directly as per **GST (CGST & SGST/ UTGST or IGST)** laws, entire applicable rate/ amount of **GST (CGST & SGST/ UTGST or IGST)** to be indicated by bidder in the SOR.

Where GASONET must discharge **GST (CGST & SGST/ UTGST or IGST)** liability under reverse charge mechanism, and GASONET has paid or is/ liable to pay **GST (CGST & SGST/ UTGST or IGST)** to the Government on which interest or penalties becomes payable as per GST laws for any reason which is not attributable to GASONET or ITC concerning such payments is not available to GASONET for any reason which is not attributable to GASONET, then GASONET shall be entitled to deduct/ setoff/ recover such amounts against any amounts paid or payable by GASONET to Contractor/ Supplier.

13.9 The contractor shall ensure timely submission of invoice(s) as per rules/ regulations of GST with all required supporting document(s) within a period specified in Contracts/ LOA to enable GASONET to avail input tax credit. Further, returns and details needed to be filled under GST laws & rules should be timely filed by the supplier with the requisite information.

Suppose input tax credit concerning GST (CGST & SGST/ UTGST or IGST) is not available to GASONET for any reason not attributable to GASONET. In that case, GASONET shall not be obligated or liable to pay or reimburse **GST (CGST & SGST/ UTGST or IGST)** charged in the invoice(s) and shall be entitled to/ deduct/ setoff/ recover the such **GST (CGST & SGST/**

UTGST or IGST) thereupon together with all penalties and interest if any, against any amounts paid or payable by GASONET to Supplier of Goods/ Services.

13.10 REGARDING RECONCILIATION BETWEEN GSTR 2A AND INPUT TAX CREDIT

Supplier shall ensure timely submission of correct invoice(s), as per GST rules/ regulation, with all required supporting document(s) within a period specified in Contract to enable GASONET to avail input credit of GST (CGST&SGST/UTGST or IGST). Further, returns and details required to be filled under GST laws & rules should be timely filed by the Supplier of Goods / Services with the requisite information.

Suppose input tax credit is unavailable to GASONET for any reason not attributable to GASONET. In that case, GASONET shall not be obligated or liable to pay or reimburse GST (CGST&SGST/UTGST or IGST) claimed in the invoice(s) and shall be entitled to deduct / setoff / recover such GST amount (CGST&SGST/UTGST or IGST) or Input Tax Credit amount together with penalties and interest, if any, against any amounts paid or becomes payable by GASONET in future to the Supplier/Contractor under this contract or any other contract.

In case CBIC (Central Board of Indirect Taxes and Customs)/ any tax authority / any equivalent government agency brings to the notice of GASONET that the Supplier has not remitted the amount towards GST (CGST & SGST/UTGST or IGST) collected from GASONET to the government exchequer, then, that Supplier shall be put under Holiday.

The supplier shall mention Gasonet's particulars on the invoice. Besides, if any other details of GASONET are required under GST rules/ regulations on the date of dispatch, the same shall also be mentioned on the Invoice.

However, if any unregistered bidder submits their bid, their prices will be loaded with applicable GST (CGST & SGST/UTGST or IGST) during the bid evaluation.

If the GST rating of the vendor on the GST portal / Govt. official website is negative/blacklisted, then the bids may be rejected by GASONET. Further, in case the rating of a bidder is negative/blacklisted after the award of work for supply of goods/services, then GASONET shall not be obligated or liable to pay or reimburse GST (CGST & SGST/UTGST or IGST) to such vendor and shall also be entitled to deduct/recover such GST (CGST & SGST/UTGST or IGST) along with all penalties/interest, if any, incurred by GASONET.

GASONET will prefer to deal with registered suppliers of goods/ services under GST. Therefore, bidders are requested to register under GST; it is not registered yet.

13.11 ANTI-PROFITEERING CLAUSE

As per Clause 171 of the GST Act, it is mandatory to pass on the benefit due to a reduction in tax rate or from an input tax credit to the consumer by way of a commensurate reduction in price. The Supplier of Goods/ Services may note the above and quote their prices accordingly.

13.12 In case the GST rating of the vendor on the GST portal/ Govt. official website is negative/blacklisted, then the bids may be rejected by GASONET. Further, in case the rating of a bidder is negative/blacklisted after the award of work for the supply of goods/ services, then GASONET shall not be obligated or liable to pay or reimburse GST to such vendor and shall

also be entitled to deduct/ recover such GST along with all penalties/ interest, if any, incurred by GASONET.

14 BID CURRENCIES

Bidders must submit bids in Indian Rupees only.

15 BID VALIDITY

15.1 Bids shall be kept valid for **'ninety [90] Days'** from the final 'Bid Due Date'. A Bid valid for a shorter period may be rejected by GASONET as 'non-responsive'.

15.2 In exceptional circumstances, before the original 'Bid Validity Period' expires, the Employer may request the Bidders to extend the 'Period of Bid Validity' for a specified additional period. The request and its responses shall be made in writing or by fax/e-mail. A Bidder may refuse the request without forfeiture of his 'Bid Security'. A Bidder agreeing to the request will not be required or permitted to modify his Bid but will be required to extend the validity of its 'Bid Security' for the extension period and following "ITB: Clause – 16" in all respects.

~~16 EARNEST MONEY/ BID SECURITY~~

~~16.1 Bids must be accompanied by **'Earnest Money/ Bid Security'** in the form of **'Demand Draft'** or **'Banker's Cheque'** in favour of **GASONET SERVICES (UK) LIMITED / GASONET SERVICES (HP) LIMITED/ GASONET SERVICES (UK) LIMITED]** or **'Bank Guarantee'** or **'Letter of Credit' as per the format given in Form-4/4A of the bidding documents.** Bidders shall ensure that 'Bid Security', having a validity of at least **'two [02] months'** beyond the validity of the bid, must accompany the Bid in the format(s) made available in the Bidding Document. A bid not accompanied by 'Bid Security' or 'Bid Security' not in requisite form shall be liable for rejection. The Bid Security shall be submitted in Indian Rupees only.~~

~~16.2 The 'Bid Security' is required to protect GASONET against the risk of Bidder's conduct, which would warrant the 'Bid Security's' forfeiture under "ITB: Clause-16.7"~~

~~16.3 GASONET shall not be liable to pay any Bank charges, commission interest, etc., on the amount of 'Bid Security'. If 'Bid Security' is a 'Bank Guarantee', the same shall be from any Indian scheduled Bank or a branch of an International Bank situated in India and registered with 'Reserve Bank of India' as a Scheduled Foreign Bank. However, in case of 'Bank Guarantee' from Banks other than the Nationalized Indian Banks, the Bank must be a commercial Bank having a net worth over Rs.100 Crores [Rupees One Hundred Crores], and a declaration to this effect should be made by such commercial Bank either in the 'Bank Guarantee' itself or separately on its letterhead. 'Earnest Money/ Bid Security shall be valid for **'two [02] months'** beyond the 'Bid Validity Period.'~~

~~16.4 Any Bid not secured following "ITB: Clause-16.1 & Clause-16.3" may be rejected by GASONET as non-responsive.~~

~~16.5 Unsuccessful Bidder's 'Earnest Money/ Bid Security' will be discharged/ returned as promptly as possible, but not later than 'thirty [30] days' after finalization of tender.~~

~~16.6 The successful Bidder's 'Bid Security' will be discharged upon the Bidder's acknowledging the 'Award' and signing the 'Agreement' and furnishing the 'Contract Performance Security/ Security Deposit' under clauses 37 & 38 of ITB.~~

16.7 Notwithstanding anything contained herein, the 'Bid Security' may also be forfeited in any of the following cases:

(a) If a Bidder withdraws his Bid during the 'Period of Bid Validity.'

(b) If a Bidder has indulged in corrupt/ fraudulent/ collusive/ coercive practice

(c) If the Bidder modifies bids during the bid validity period (after the submission date).

(d) Violates any other condition mentioned elsewhere in the tender document, which may lead to forfeiture of EMD.

(e) In the case of a successful Bidder, if the Bidder fails to:

(i) to acknowledge receipt of the "Notification of Award"/ "Fax of Intent [FOI]/ Fax of Acceptance [FOA/LOA/WO]",

(ii) to furnish "Contract Performance Security/ Security Deposit" following "ITB: Clause – 38"

(iii) to accept 'arithmetical corrections' as per provision of clause 30 of ITB.

16.8 Bid Security should be in favour of Gasonet and addressed to GASONET. If Bid Security is a 'Bank Guarantee' or 'Letter of Credit', the same must indicate the Bid Document No. And the Work for which the Bidder is quoting. This is essential to have a proper correlation at a later date. The 'Bid Security' should be in the form provided at 'Form F-4'/ 'Form F-4S'.

16.9 MSEs (Micro and Small Enterprises) are exempted from submission of EMD/ Bid Security following the provisions of PPP-2012 and Clause 40 of ITB. The Government Departments/ PSUs are also exempted from the payment of Bid Security.

17 PRE-BID MEETING (IF APPLICABLE)

17.1 The Bidder(s) or his designated representatives are invited to attend a "Pre-Bid Meeting" which will be held at the address specified in IFB. A bidder is expected to not depute more than 02 representatives for the meeting.

17.2 The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.

17.3 Text of the questions raised, the responses given, and any responses prepared after the meeting will be uploaded on the GASONET website against the Tender. Any modification of the Contents of Bidding Documents listed in "ITB: Clause-7.1" that may become necessary as a result of the Pre-Bid Meeting shall be made by the Employer exclusively through the issue of an Addendum/ Corrigendum according to "ITB: Clause – 9", and not through the minutes of the Pre-Bid Meeting.

17.4 Non-attendance of the Pre-Bid Meeting will not be a cause for disqualification of Bidder.

18 FORMAT AND SIGNING OF BID

18.1 The original and all copies of the Bid shall be typed or written in indelible ink [in the case of copies, photocopies are also acceptable] and shall be signed by a person or persons duly authorized to sign on behalf of the Bidder (as per POA). The name and position held by each person signing must be typed or printed below the signature. All pages of the Bid except for unnamed printed literature where entry(s) or amendment(s) have been made shall be initiated by the person or persons signing the Bid.

18.2 The Bid shall contain no alterations, omissions, or additions unless such corrections are initiated by the person or persons signing the Bid.

19 ZERO DEVIATION AND REJECTION CRITERIA

19.1 ZERO DEVIATION

Deviation to terms and conditions of "Bidding Documents" may lead to the rejection of the bid. GASONET will accept submissions based on the terms & conditions of the "Bidding Document" only. Bidder may note that GASONET will determine the substantial responsiveness of each bid to the Bidding Documents according to the provision contained in clause 29 of ITB. For this purpose, a substantially responsive bid conforms to all terms and conditions of the Bidding Documents without deviations or reservations. GASONET's determination of a bid's responsiveness is based on the content of the bid itself without recourse to extrinsic evidence. GASONET reserves the right to raise technical and/ or commercial query(s), if required, may be raised on the bidder(s). The response(s) to the same shall be in writing, and no change in the price(s) or substance of the bids shall be sought, offered or permitted. The substance of the bid includes but is not limited to prices, completion, scope, technical specifications, etc. Bidders are requested not to take any deviation/ exception to the terms and conditions laid down in this "Tender Documents" and submit all requisite documents as mentioned in this "Tender Documents", failing which their offer will be liable for rejection. If a bidder does not reply to the queries in the permitted time frame, then its bid shall be evaluated based on the documents available in the bid.

19.2 REJECTION CRITERIA

Notwithstanding the above, deviation from the following clauses of the Tender document shall lead to a summary rejection of the Bid:

- Firm Price
- Earnest Money Deposit/ Bid Security
- Specifications & Scope of Work
- Schedule of Rates/ Price Schedule/ Price Basis
- Duration/ Period of Contract/ Completion Schedule
- Period of Validity of Bid
- Price Reduction Schedule
- Contract Performance Bank Guarantee/ Security Deposit
- Guarantee/ Defect Liability Period
- Arbitration/ Resolution of Dispute/ Jurisdiction of Court
- Force Majeure & Applicable Laws
- Any other condition mentioned in the tender document elsewhere that non-compliance with the clause leads to rejection of the bid.

Note: Further, it is again reminded not to mention any condition in the Bid that contradicts the terms and conditions of the Tender document.

20 E –PAYMENT

Gasonet has initiated payments to Suppliers and Contractors electronically and facilitated the payments electronically through '**e-banking'**. The successful bidder should give the bank account details per the bank mandate form.

[D] – SUBMISSION OF BIDS

21 SUBMISSION, SEALING AND MARKING OF BIDS

21.1 In the case of manual tendering, the bid must be submitted in a sealed envelope. If the envelope is not sealed & marked as per Clause No. 11 of ITB, the employer will assume no responsibility for the misplacement or premature opening of the bid.

21.2 All the bids shall be addressed to the owner at the address specified in IFB.

21.3 Bids submitted under the name of AGENT/ CONSULTANT/ REPRESENTATIVE/ RETAINER/ ASSOCIATE, etc., on behalf of a bidder/ affiliate shall not be accepted.

22 DEADLINE FOR SUBMISSION OF BIDS

22.1 In the case of manual tendering, EMD, along with the bid, must be submitted within the due date & time.

22.2 GASONET may, in exceptional circumstances and at its discretion, extend the deadline for submission of Bids (clause 9 ITB refers). In this case, all rights and obligations of GASONET and the Bidders, previously subject to the original deadline, will be subject to the deadline as extended. Notice for the bid submission date extension will be uploaded on GASONET's website/communicated to the bidders.

23 LATE BIDS

23.1 Any bid received after the notified date and time of tender closing will be treated as late bids.

23.2 In the case of manual tendering, bids received by GASONET after the deadline for submission of bids shall not be considered. Such late bids shall be returned to the bidder within "10 days" in 'unopened conditions'. The bid bond of such bidders shall be returned along with the unopened bid. In the case of e-tendering, where the bid bond/ physical documents have been received but the bidder does not submit the bid in the e-tendering portal, such bid bond/ physical documents shall be returned immediately.

23.3 Unsolicited Bids or Bids received to address other than one stipulated explicitly in the tender document will not be considered for evaluation/ opening/ award if not accepted to the specified destination within the stipulated date & time.

24 MODIFICATION AND WITHDRAWAL OF BIDS

24.1 Modification and withdrawal of bids shall be as follows:

24.1.1 **IN THE CASE OF MANUAL BIDDING**

The bidder may withdraw or modify its bid after bid submission but before the due date for submission as per the tender document, provided that GASONET receives the written notice of the modification/ substitution/ withdrawal before the deadline for submission of a bid.

24.2 The modification shall also be prepared, sealed, marked and dispatched following the provision of clause 22 of ITB, with the outer and inner envelopes additionally marked modification or withdrawal as appropriate. A withdrawal notice may also be sent by e-mail or fax but followed by a signed confirmation copy post not later than the deadline for submission of bids. No bid shall be modified/ withdrawn after the deadline for submission of bids.

24.3 No bid shall be allowed to be withdrawn/ modified/ substituted between the deadline for submission of bids and the expiration of the bid validity period specified by the bidder on the Bid Form. Withdrawal/ Modification/ Substitution of a bid during this interval shall result in the bidder's forfeiture of his bid security according to clause 16 of ITB and rejection of the bid.

24.4 The latest submitted bid shall be evaluated, and all other bids shall be considered unconditionally withdrawn.

24.5 In case after the price bid opening, the lowest evaluated bidder (L1) is not awarded the job for any mistake committed by him in bidding or withdrawal of bid or modification of bid or varying any term in regard thereof leading to re-tendering, GASONET shall forfeit EMD paid by the bidder and such bidders shall be debarred from participation in re-tendering of the same job(s)/ item(s). Further, such a bidder will be put on holiday for six months after following the due procedure.

25 EMPLOYER'S RIGHT TO ACCEPT ANY BID AND TO REJECT ANY OR ALL BIDS

GASONET reserves the right to accept or reject any Bid and to annually the Bidding process and reject all Bids at any time before the award of the Contract, without thereby incurring any liability to the affected Bidder or Bidders or any obligations to inform the affected Bidder or Bidders of the ground for GASONET's action. However, Bidder, if desired, may seek the reason (in writing) for the rejection of their Bid, to which GASONET shall respond quickly.

[E] – BID OPENING AND EVALUATION

GASONET WILL OPEN BID AFTER THE DUE DATE & TIME WITHOUT ANY PRIOR NOTICE TO ANY BIDDER.

PRICE BIDS OF SUCCESSFUL BIDDERS WILL BE OPENED WITHOUT ANY PRIOR INTIMATION.

~~26 BID OPENING~~

~~26.1 Un-priced Bid Opening~~

~~GASONET will open bids in the presence of bidders' designated representatives who choose to attend at the date, time and location stipulated in the BDS. The bidders' representatives, who are present, shall sign a bid opening register evidencing their attendance.~~

~~26.2 Priced Bid Opening~~

~~26.2.1 GASONET will open the price bids of those bidders who meet the qualification requirement and whose bids are determined to be technically and commercially responsive. Bidders selected for opening their price bids shall be informed about the opening date. Bidders may depute their authorized representative to attend the bid opening.~~

~~The bidders' representatives, who are present, shall sign a register evidencing their attendance and may be required to be present on short notice.~~

~~26.2.2 The price bids of those not found to be techno-commercially responsive bidders shall be unopened and returned unopened after opening the price bids of techno-commercially responsive bidders.~~

~~26.3 In case of bids invited under the single bid system, the bid shall be opened on the specified due date & time.~~

27 CONFIDENTIALITY

Information relating to the examination, clarification, evaluation, and comparison of Bids and recommendations for the award of a Contract shall not be disclosed to Bidders or any other persons not officially concerned with such process. Any effort by a Bidder to influence the Employer's processing of Bids or award decisions may result in the rejection of the Bidder's Bid, and action shall be initiated as per procedure in this regard.

28 CONTACTING THE EMPLOYER

28.1 From the time of Bid opening to the time of award of the Contract, if any Bidder wishes to contact the Employer on any matter related to the Bid, it should do so in writing. Information relating to the examination, clarification, evaluation & recommendation for award shall not be disclosed.

28.2 Any effort by the Bidder to influence the Employer in the Employer's 'Bid Evaluation', 'Bid Comparison', or 'Contract Award' decisions may result in the rejection of the Bidder's Bid and action shall be initiated as per procedure in this regard.

29 EXAMINATION OF BIDS AND DETERMINATION OF RESPONSIVENESS

29.1 The owner's determination of a bid's responsiveness is based on the content of the request only. Before the detailed evaluation of Bids, the Employer will determine whether each Bid-

(a) Meets the "Bid Evaluation Criteria" of the Bidding Documents;

(b) Has been properly signed;

(c) Is accompanied by the required 'Earnest Money/ Bid Security';

(d) Is substantially responsive to the requirements of the Bidding Documents; and

(e) Provides any clarification and/ or substantiation that the Employer may require to determine responsiveness according to "ITB: Clause – 29.2."

29.2 A substantially responsive Bid conforms to all the terms, conditions and specifications of the Bidding Documents without material deviations, reservations or omissions for this purpose; the employer defines the preceding terms below:-

(a) "Deviation" is a departure from the requirement specified in the tender documents.

(b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirement in the tender documents.

(c) "Omission" is the failure to submit part or all of the information or documentation required in the tender document.

29.3 A material deviation, reservation or omission is one that,

(a) If accepted would,

- Affect in any substantial way the scope, quality, or performance of the job as specified in tender documents.
- Limit, in any substantial way, inconsistent with the Tender Document, the Employer's rights or the tenderer's obligations under the proposed Contract.

(b) If rectified, it would unfairly affect the competitive position of other bidders presenting substantially responsive bids.

29.4 The employer shall examine all aspects of the bid to confirm that all requirements have been met without any material deviation, reservation or omission.

29.5 If a Bid is not substantially responsive, it may be rejected by the Employer. It may not subsequently be made responsive by correcting or withdrawing the material deviation, reservation or omission.

30 CORRECTION OF ERRORS

30.1 The Employer will check bids that are substantially responsive for any arithmetic error. Errors will be corrected by the Employer as follows:

(i) When there is a difference between the rates in figures and words, the rate corresponding to the amount worked out by the contractor (by multiplying the quantity and rate) shall be taken as correct.

(ii) When the rate quoted by the contractor in figure and words tallies but the amount is incorrect, the rate quoted by the contractor shall be taken as correct, not the amount and the amount corrected.

(iii) When it is impossible to ascertain the correct rate, in the manner prescribed above, the rate as quoted in words shall be adopted, and the amount worked out for comparison purposes.

30.2 The Employer will adjust the amount stated in the bid per the above procedure to correct errors. If the bidder does not accept the corrected bid amount, it will be rejected, and the bid security shall be forfeited.

31 CONVERSION TO SINGLE CURRENCY FOR COMPARISON OF BIDS

Not Applicable. All bids submitted must be in the currency specified in clause 14 of ITB.

32 EVALUATION AND COMPARISON OF BIDS

Bids shall be evaluated per the criteria mentioned in Section II of bidding documents (refer to clause 7.0 of ITB) after considering the effect of GST. The employer shall only use the criteria and methodology indicated in Section II of the bidding documents. No other criteria/ methodology shall be permitted.

33 COMPENSATION FOR EXTENDED STAY (FOR APPLICABILITY OF THIS CLAUSE, REFER BDS): [NOT APPLICABLE IN THIS INSTANT TENDER]

33.1 In the event of the time of completion of work getting delayed beyond the schedule indicated in the bidding document plus a grace period equivalent to 1/5th of the program or two months, whichever is more, due to reasons solely attributable to the Employer, the Contractor shall be paid compensation for an extended stay (ESC) to maintain necessary organizational setup and construction tools, tackles, equipment etc. at the site of work.

33.2 The bidder must specify the ESC rate per month basis in the "PRICE PART" of his bid, which shall be considered for loading on the total quoted price during price bid evaluation. The loading shall be done for 1/5th of the schedule or one month, whichever is less. If the bidder does not indicate the rate for ESC in the price part of his bid, it will be presumed that the bidder and evaluation require no ESC to be carried out accordingly.

34 ~~PURCHASE PREFERENCE [NOT APPLICABLE]~~

~~Purchase preference to Central Government Public Sector Undertaking and Micro and Small Enterprises (MSEs) shall be allowed as per Government instructions in vogue.~~

[F] – AWARD OF CONTRACT

35 AWARD

Subject to "ITB: Clause-29", GASONET will award the Contract to the successful Bidder whose Bid has been substantially responsive and as the lowest provided that the bidder is determined to be qualified to perform the Contract satisfactorily.

36 NOTIFICATION OF AWARD/ FAX OF ACCEPTANCE

36.1 Before the expiry of the 'Period of Bid Validity', GASONET will notify the successful Bidder in writing, in the form of "Notification of Award" / "Fax of Intent [FOI]"/ Fax of Acceptance [FOA]", through fax/ e-mail that his Bid has been accepted. The notification of award / Fax of Intent will constitute the formation of the Contract.

36.2 The contract period shall commence from the date of "Notification of Award" or as mentioned in the Notification of Award. The "Notification of Award" will constitute the formation of a Contract until the Contract has been effected according to the Contract signing as per Clause "ITB: Clause – 37.

Upon the successful Bidder's/ Contractor's furnishing of 'Contract Performance Security / Security Deposit', according to "ITB: Clause – 38", GASONET will promptly discharge his 'Earnest Money/ Bid Security, according to "ITB: Clause – 16"

37 SIGNING OF AGREEMENT

37.1 GASONET will award the Contract to the successful Bidder, who, within 'fifteen [15] days' of receipt of the same, shall sign and return the acknowledged copy of GASONET.

37.2 The successful Bidder/ Contractor shall be required to execute an 'Agreement' in the proforma given in this Bidding Document on a 'non-judicial stamp paper' of appropriate value [cost of the 'stamp-paper' shall be borne by the successful Bidder/ Contractor] and of 'state' specified in Bidding Data Sheet (BDS) only, within 'fifteen [15] days' of receipt of the "Letter of Acceptance [LOA]" of the Tender by the successful Bidder/ Contractor. Failure of the successful Bidder/ Contractor to sign the 'Agreement' within the above stipulated period shall constitute sufficient grounds for forfeiture of EMD/ Security Deposit.

38 CONTRACT PERFORMANCE SECURITY/ SECURITY DEPOSIT

38.1 Within 21 days of receiving the notification of award/ Fax of Acceptance from GASONET, the successful bidder shall furnish the contract performance security/ Guarantee per the General Conditions of the Contract. The Contract Performance Security/ Guarantee shall be in the form of either a Banker's Cheque / Demand Draft / Bank Guarantee / Letter of Credit and shall be in the currency of the Contract.

38.2 The contract performance security shall equal what is specified in the **Binding Data Sheet (BDS)** towards the faithful performance of the contractual obligations and equipment performance. For Contract Performance Security, Contract/ order value shall be exclusive of taxes and duties.

Banks Guarantee towards performance security/ security deposit shall be from any Indian schedule bank or a branch of an International bank situated in India and registered with the Reserve Bank of India as a scheduled foreign bank in case of Indian bidder and foreign bidder. However, in case of bank guarantees from banks other than the Nationalized Indian banks, the bank must be a commercial bank with a net worth exceeding **Rs. 100 Crores** and a declaration to this effect should be made by such commercial bank either in the Bank Guarantee itself or separately on its letterhead. This bank guarantee shall be valid for **three months beyond the DLP** specified in the Bid Data Sheet.

38.3 Failure of the successful bidder to comply with the requirements of this article shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security.

38.4 The CPBG/ Security deposit must also cover the entire contract value, including extra works/ services. As long as the CPBG/ Security deposit submitted at the time of award takes care of the different jobs/ services executed and the total committed value is within the awarded contract price, there is no need for additional security deposit/ Contract Performance Security. As soon as the capacity completed value is likely to burst the ceiling of the awarded contract price, the contractor should furnish an additional security deposit/ CPBG.

39 PROCEDURE FOR ACTION IN CASE CORRUPT/ FRAUDULENT/ COLLUSIVE/ COERCIVE PRACTICES

39.1 The procedure for action in case of Corrupt/ Fraudulent/ Collusive/ Coercive Practice is enclosed in Annexure – I.

39.2 **NON-APPLICABILITY OF ARBITRATION CLAUSE IN CASE OF BANNING OF VENDORS/ SUPPLIERS/ CONTRACTORS/ BIDDERS/ CONSULTANTS INDULGED IN FRAUDULENT/ COERCIVE PRACTICES**

Notwithstanding anything contained contrary in GCC and other 'CONTRACT DOCUMENTS', in case it is found that the Vendors/ Suppliers/ Contractors/ Bidders/ Consultants indulged in fraudulent/ coercive practices at the time of bidding, during the execution of the contract etc., and/ or on other grounds as mentioned in GASONET's "Procedure for action in case Corrupt/ Fraudulent/ Collusive/ Coercive Practices" (Annexure-I), the contractor/ bidder shall be banned (in terms of the procedure described above) from the date of issuance of such order by Gasonet to such Vendors/ Suppliers/ Contractors/ Bidders/ Consultants.

The Vendor/ Supplier/ Contractor/ Bidder/ Consultant understands and agrees that in such cases where the Vendor/ Supplier/ Contractor/ Bidder/ Consultant has been banned (in terms of the procedure mentioned above) from the date of issuance of such order by Gasonet, such decision of Gasonet shall be final and binding on such Vendor/ Supplier/ Contractor/ Bidder/ Consultant and the 'Arbitration Clause' in the GCC and other 'CONTRACT DOCUMENTS' shall not be applicable for any consequential issue/ dispute arising in the matter.

40 PUBLIC PROCUREMENT POLICY FOR MICRO AND SMALL ENTERPRISES (REFER BDS FOR APPLICABILITY OF THIS CLAUSE)

40.1 The following provision has been incorporated in the tender for MSEs, in line with the notification of the Government of India, vide Gazette of India No. 503 dated 26.03.2012 proclaiming the Public Procurement Policy on procurement of goods and services from Micro and Small Enterprises (MSEs)

i) Issue of the tender document to MSEs free of cost.

ii) Exemption to MSEs from payment of EMD/Bid Security.

iii) In Tender, participating Micro and Small Enterprises quoting prices within a price band of L1 +15% shall also be allowed to supply a portion of the requirement by bringing their prices to L1 price in a situation where the L1 price is from someone other than micro and small enterprises and such micro and small enterprises shall be allowed to supply upto 25% of the total tendered `value. In the case of more than one such Micro and Small Enterprise, the supply shall be shared proportionately (to tendered quantity). Further, out of the above 25%, 4% shall be reserved for MSEs owned by SC/ST entrepreneurs. Further, 3% shall be reserved for women-owned MSEs within the 25% reservation. The respective quota(s) shall be transferred to other MSEs in case of non-availability of MSEs owned by SC/ST entrepreneurs/ MSEs owned by Women. (Same is not applicable)

The quoted prices against various items shall remain valid in case of splitting of quantities of the items above.

In case the tendered item is non-splittable or non-dividable (specified in Bid Data Sheet), MSE quoting price within price band L1 (other than MSE) + 15% may be awarded for full/ complete supply of total tendered value subject to matching of L1 price.

40.2 The MSEs owned by SC/ST entrepreneurs shall mean:

a) In the case of proprietary MSE, the Proprietor(s) shall be SC/ST.

b) In the case of partnership MSE, the SC/ST partners shall hold at least 51% share in the unit.

c) In the case of private Limited Companies, at least 51% of the share is held by SC/ST. The bidder shall furnish appropriate documentary evidence if SC/ST entrepreneurs own the MSE.

The MSE(s) owned by Women shall mean:-

d) In the case of proprietary MSE, the Proprietor(s) shall be Women.

40.3 In case the bidder is a Micro or Small Enterprise under the Micro, Small and Medium Enterprises Development Act, 2006, the bidder shall submit the following:

a) Ministry of MSME vides Gazette notification no. CG-DL-E-26062020-220191 dated 26.06.2020 has notified specific criteria for classifying the enterprises as Micro, Small and Medium Enterprises and specified form and procedure for filling the memorandum (Udyam Registration) w.e.f 01.07.2020 (for complete details of policy refer the website of Ministry of MSME, i.e. https://msme.gov.in/)

Accordingly, Micro and Small Enterprises (MSEs) must submit a Udyam Registration Certificate to avail of benefits under the Public Procurement Policy for MSEs-2012.

An enterprise registered before 30.06.2020 and not re-registered with Udyam Registration shall remain valid for up to 31.12.2021. Such enterprise shall submit EM Part-II or Udyog Aadhaar Memorandum (UAM) for availing benefits of PPP-2012.

b) If the MSE is owned by SC/ST Entrepreneurs/ Women Entrepreneurs, the bidder shall furnish appropriate documentary evidence.

The above documents submitted by the bidder shall be duly certified by the Statutory Auditor of the bidder or a Chartered Accountant (not being an employee or a Director or not having any interest in the bidder's company/firm) where audited accounts are not mandatory as per law and notary public with a legible stamp.

~~Suppose the bidder does not provide the above confirmation, appropriate document, or evidence. In that case, it will be presumed that they do not qualify for any preference admissible in the Public Procurement Policy (PPP) 2012.~~

40.4 ~~Further, MSEs who are availing the benefits of the Public Procurement Policy (PPP) 2012 get themselves registered with MSME Data Bank being operated by NSIC, under SME Division, M/o MSME, to create a proper database of MSEs which are making supplies to CPSUs.~~

40.5 ~~If against an order placed by Gasonet, successful bidder(s) (other than Micro/Small Enterprise)~~ is procuring material/services from their sub-vendor who is a Micro or Small Enterprise ~~registered with District Industries Centers or Khadi and Village Industries Commission or Khadi~~ and Village Industries Board or Coir Board or National Small Industries Corporation or ~~Directorate of Handicrafts and Handloom or any other body specified by Ministry of Micro, Small and Medium Enterprises with prior consent in writing of the purchasing~~ authority/Engineer-in-charge, the details like Name, Registration No, Address, Contact No. ~~Details of material & value of procurement made, etc., of such Enterprises shall be furnished by~~ the successful bidder at the time of submission of invoice/Bill.

40.6 The policy's benefits are not extended to the traders /dealers / Distributors / Stockiest / Wholesalers / Suppliers.

41 AHR ITEMS

In item rate contracts where the quoted rates exceed 50% of the estimated rates, such items will be considered as Abnormally High Rates (AHR). Items and payment of AHR items beyond the SOR stipulated quantities shall be made at the lowest amongst the following rates:

- Rates as per SOR, quoted by the Contractor/ Bidder.
- The rate of the item shall be derived as follows:

a. Based on rates of Machine and labour as available from the contract (which includes contractor's supervision, profit, overheads and other expenses).

b. Suppose rates are not available in the contract. In that case, rates will be calculated based on prevailing market rates of machine, material and labour plus 15% to cover the contractor's supervision profit, overhead & other expenses.

42 INCOME TAX & CORPORATE TAX

42.1 Income tax deduction shall be made from all payments made to the contractor per the rules and regulations in force and following the Income Tax Act prevailing from time to time.

42.2 Corporate Tax liability, if any, shall be to the contractor's account.

42.3 Work Contract tax/ VAT shall be deducted as per trade tax.

42.4 **MENTIONING PAN NO. IN INVOICE/ BILL**

As per CBDT Notification No. 95/ 2015 dated 30.12.2015, mentioning PAN no. is mandatory for procurement of goods/ services/ works/ consultancy services exceeding Rs. 2.0 Lakh per transaction.

Accordingly, supplier/ contractor/ service provider/ consultant should mention their PAN no. in their invoice/ bill for any transaction exceeding Rs. 2.0 Lakh. As provided in the notification, if the supplier/ contractor/ service provider/ consultant does not have PAN no., they must submit Form 60 along with the invoice/ bill for each transaction.

Payment of supplier/ contractor/ service provider/ consultant shall be processed only after fulfilling the above requirement.

43 SETTLEMENT OF DISPUTES BETWEEN GOVERNMENT DEPARTMENT AND ANOTHER AND ONE GOVERNMENT DEPARTMENT AND PUBLIC ENTERPRISE AND ONE PUBLIC ENTERPRISE AND ANOTHER

In the event of any dispute or difference relating to the interpretation and application of the provisions of the contracts, such dispute or difference shall be referred by either party for Arbitration to the sole Arbitrator in the Department of Public Enterprises to be nominated by the Secretary to the Government of India in-charge of the Department of Public Enterprises. The Arbitration and Conciliation Act, 1996 shall not apply to arbitrators under this clause. The award of the Arbitrator shall be binding upon the parties to the dispute, provided, however, any party aggrieved by such award may make a further reference for setting aside or revision of the award to the Law Secretary, Department of Legal Affairs, Ministry of Law & Justice, Government of India. Upon such reference, the dispute shall be decided by the Law Secretary, Department of Legal Affairs, Ministry of Law & Justice, Government of India. Upon such consideration, the dispute shall be decided by the Law Secretary or the Special Secretary/ Additional Secretary, when authorized by the Law Secretary, whose decision shall finally bind the Parties. The parties to the dispute will share equally the cost of arbitration as intimated by the Arbitrator.

44 DISPUTE RESOLUTION (ADDENDUM TO PROVISION REGARDING APPLICABLE LAWS AND SETTLEMENT OF DISPUTES OF GCC)

44.1 Unless otherwise specified, the matters where the decision of the Engineer-in-Charge is deemed to be final and binding as provided in the Agreement and the issues/ disputes which cannot be mutually resolved within a reasonable time, all disputes shall be settled following the Indian Arbitration and Conciliation Act 1996.

44.2 Any dispute(s)/ difference(s)/ issue(s) of any kind whatsoever between/ amongst the Parties arising under/ out of/ in connection with this contract shall be settled following the rules described above.

44.3 In case of any dispute(s)/ difference(s)/ issue(s), a Party shall notify the other Party (ies) in writing about such a dispute(s)/ difference(s)s/ issue(s) between/amongst the Parties and that such a Party wishes to refer the dispute(s)/ difference(s)/ issue(s) to Conciliation. Such Invitation for Conciliation shall contain sufficient information as to the dispute(s)/ difference(s)/ issue(s) to enable the other Party (ies) to be fully informed as to the nature of the dispute (s)/ difference(s)/ issue(s), the amount of monetary claim, if any, and apparent cause(s) of action.

44.4 Conciliation proceedings commence when the other Party(ies) accept(s) the invitation to conciliate and confirm in writing. If the other Party(ies) rejects(s) the invitation, there will be no conciliation proceedings.

44.5 Suppose the Party initiating conciliation does not receive a reply within thirty days from the date they send the invitation or within the other specified period. In that case, they may treat this as rejecting the invitation to conciliate. If they so elect, they shall inform the other Party(ies) accordingly.

44.6 Where an Invitation for Conciliation has been furnished, the Parties shall attempt to settle such dispute(s) amicably under Part-III of the Indian Arbitration and Conciliation Act, 1996. It would be only after exhausting the option of Conciliation as an Alternate Dispute Resolution Mechanism that the Parties hereto shall go for Arbitration. For this clause, the possibility of 'Conciliation' shall be deemed to have been exhausted, even in case of rejection of 'Conciliation' by any of the Parties.

44.7 The cost of Conciliation proceedings, including but not limited to fees for Conciliator(s), Airfare, Local Transport, Accommodation, cost towards conference facility, etc., shall be borne by the Parties equally.

44.8 The Parties shall freeze claim(s) of interest, if any, and shall not claim the same during the pendency of Conciliation proceedings. The Settlement Agreement, as and when reached/ agreed upon, shall be signed between the Parties, and Conciliation proceedings shall stand terminated on the date of the Settlement Agreement.

45 BILLING SYSTEM

ORIGINAL Bills/ Invoices are to be forwarded in a sealed envelope for release of payment in time, and the following should be mentioned in the "top left corner of the envelope" with "address" as under."

(a) The top left corner of the envelope

Vendor Code: _____

LOA/ PO No. ..... Date.....

Bill/ Invoice No. ..... Date.....Invoice Value: Rs.....

EIC ..... Job/ Supply of.....

(b) Address: Address and other details shall be mentioned in the Work Order itself.

46 TRANSPARENCY

Bidders, if so desires, may seek in writing the reason for rejecting their bid, to which GASONET shall respond quickly.

47 CONTRACTOR'S SUBORDINATE STAFF AND THEIR CONDUCT

A new clause no. 36.5 in the GCC for Works has been appended hereunder:

"The Contractor shall obtain the necessary certificate concerning **verification of character and antecedents** in respect of personnel deployed/ proposed to be deployed to carry out the

contractual obligations and provide the copy of the said certificate for facilitating Photo Pass to enter into GASONET's Premises".

48 SALE OF BID DOCUMENTS

The tender document shall be made available on the GASONET website only in the case of an open tender. However, no tender document or bid shall be considered from bidders who, as on the due date of submission of the bid, are placed on 'Holiday' by GASONET or by any Public Sector Project Management Consultant (such as EIL, MECON, Resonance, etc.) solely on account of **poor performance** or **corrupt and fraudulent practices**, or are banned/blacklisted by any Government Department or Public Sector Undertaking. Bids submitted by such bidders shall not be considered for opening, evaluation, or award and shall be returned unopened to the concerned bidder.

The above shall be without prejudice to any other rights available to GASONET under the tender conditions or applicable laws.

49 QUANTITY VARIATION

49.1 The Purchaser reserves the right to vary the quantity of each item at the time of award without any change in quoted unit price or other terms & conditions.

49.2 The purchaser reserves the right to delete the requirement of any one or more MR/ SOR/ BOQ items without assigning any reason.

50 SUBLETTING & ASSIGNMENT

The contractor shall not save with previous consent in writing of the Engineer-in-charge, sublet, transfer or assign the contract or any part thereof or interest therein or benefit or advantage thereof in any manner whatsoever. Nevertheless, such consent shall not relieve the contractor from any obligation, duty or responsibility under the contract.

However, Subletting of WHOLE WORKS is prohibited. The vendor/Contractor will give an undertaking to this effect along with each invoice/ bill. In addition to the above, clause no. 37.0 of GCC is also to be referred to.

51 DIRECT PAYMENTS TO SUB-VENDORS/ SUPPORTING AGENCIES OF THE MAIN CONTRACTOR

The payment must only be made to the vendor/ contractor per the contract provision. During execution, in case of financial constraints, GASONET may make direct payment to their sub-vendor/ supporting agencies as an exception from the amounts due to the vendors/ contractors from any of their bills under process upon certification by EIC subject to receipt of such request from the vendor/ contractor. Further, the demand for direct payments to the sub-vendor/ sub-contractor shall be considered in the performance evaluation of such vendor/ contractor.

52 CHECK MEASUREMENT

Measurement shall be recorded as per the method of measurement spelt out in SOW/ Specification/ SCC of Contract/ Tender Document. The responsibility for checking the measurements as recorded in the measurement Books/ Bills shall be as follows:

1. Where GASONET Executive is Engineer-In-Charge (EIC) (e.g. O&M Contracts)

- Site – In – Charge/ Site Engineer will check 100% of the measurements of executed work.
- EIC will further check measurements of at least 15% of bill value. If The–Charge/ Site Engineer is unavailable, EIC will match 100% measurements of executed work.
- An officer one level above EIC but not below the level of HOD will check the measurement of 5% of bill value. If HOD is EIC, he will check 20% of bill value measurements.

2. Where PMC is EIC (e.g. Project Construction):

- PMC will check 100% of the measurements of executed work.
- The GASONET Site Engineer will check measurements of at least 15% of the bill value, certified by PMC.
- An officer one level above the Site Engineer but not below the level of HOD will further check measurements of 5% of bill value. However, wherever HOD is unavailable, an officer one level junior to HOD will check measurements of 5% of bill value.

3. Where GASONET Executive is EIC and where Third Party Inspector is deployed (e.g. ARC type Construction Contracts):

- Third-Party Inspector will check 100% of the measurements of executed work.
- GASONET Site Engineer will check measurements of at least 10% of bill value, certified by A third-party inspector.
- EIC will further check measurements of 5% of bill value. If there is no Site Engineer, EIC will check 15% of the bill value measurements.
- An officer one level above EIC but not below the level of HOD will check measurements of 5% of bill value. If the HOD is EIC, he will check measurements of 10% of bill value or measure of 20% of bill value in case there is no Site Engineer.

4. HOD or an officer of a higher level to that EIC authorized by OIC may randomly check executed items where the executed quantity exceeds SOR quantities.

5. While exercising test checks of 5%, 15% level and on a random basis as above, it may be ensured that high rate items, AHR items, items exceeding SOR quantity and concealed items have been covered in the items selected for checking.

6. The Superior officer should preferably check items/ quantities other than those already checked by GASONET executives at lower levels and ensure that the subordinate officer/ officers have exercised the requisite percentage check stipulated in the procedure.

7. All concerned officers should indicate the measurements of SOR items checked by them and marked as “Checked and verified”.

Wherever any portion of the “GCC” is repugnant to or at variance with any provision(s) of the “SCC”, unless a different intention appears, the conditions (s) of the “SCC” shall be deemed to override the provisions(s) of “GCC”, and shall to the extent of such repugnancy or variation prevail.

Wherever there is a contradiction concerning the terms of 'Integrity pact', GCC and 'Procedure for action in case of Corrupt/ Fraudulent/ Collusive/ Coercive Practice', the provisions of 'Procedure for action in case of Corrupt/ Fraudulent/ Collusive/ Coercive Practice' shall prevail.

54. **INTERPRETATION OF DOCUMENTS**: In case of contradiction between Indian Standard, General Conditions of Contract, Special Conditions of Contract, Specifications, Schedule of Rates, the following shall prevail in order of precedence:

i. Letter of Intent / Fax of Acceptance
ii PO/WO
iii. Schedule of Rates, Scope of Work as enclosures to letter of acceptance
iv. Job Specifications & Drawings
v. Technical / Material Specifications
vi. Special Conditions of Contract
vii. General Conditions of Contract
viii. Indian Standards
ix. Other Applicable Standards

55. GENERAL

55.1 Gasonet reserves the right to place the order for part quantity.
55.2 Gasonet reserves the right to split the total scope of work among more than one bidder.
55.3 Gasonet reserves the right to increase or decrease the scope of work of bidders before or after award of work.
55.4 Gasonet reserves the right to reject any or all the bids received at its discretion without assigning any reason whatsoever.

Annexure – I

PROCEDURE FOR ACTION IN CASE OF CORRUPT/ FRAUDULENT/ COLLUSIVE/ COERCIVE PRACTICES

A. Definitions:

A.1 **"Corrupt Practice"** means offering, receiving or soliciting, directly or indirectly, anything of value to improperly influence the actions in the selection process or contract execution.

"Corrupt Practice" also includes any omission for misrepresentation that may mislead or attempt to mislead so that financial or other benefit may be obtained or an obligation avoided.

A.2 **"Fraudulent Practice"** means and includes any act or omission committed by the agency or with his connivance or his agency by misrepresenting/ submitting false documents and/ or false information or concealment of facts or to deceive to influence a selection process or during the execution of contract/ order.

A.3 **"Collusive Practice amongst bidders (before or after bid submission)"** means a scheme or arrangement designed to establish bid prices at artificial non-competitive levels and to deprive the Employer of the benefit of free and open competition.

A.4 **"Coercive Practice"** means impairing or harming or threatening to impair or harm, directly or indirectly, any agency or its property to influence the improper actions of an agency, obstruction of any investigation or auditing of a procurement process.

A.5 **"Vendor/ Supplier/ Contractor/ Consultant/ Bidder"** is called "Agency."

A.6 **"Appellate Authority"** shall mean Chairman, GASONET, for works approved by Managing Director and Director Commercial, jointly or severally, GASONET.

A.7 **"Competent Authority"** shall mean the authority competent to make the final decision for the Suspension of business with an Agency/ ies and the Banning of business dealings with an Agency/ ies and shall be the "Director" concerned.

A.8 **"Allied Agency"** shall mean all the concerns within the sphere of effective influence of banned/ suspended agencies. In determining this, the following factors may be taken into consideration:

a) Whether the management is joint;

b) The majority interest in the management is held by the partners or directors of banned/ suspended firms.

c) A banned/ suspended agency owns substantial or majority shares; by this, it has a controlling voice.

A.9 **"Investigating Agency"** shall mean any department or unit of GASONET investigating the conduct of the Agency/ party and shall include the Vigilance Department of the GASONET, Central Bureau of Investigation, State Police or any other agency set up by the Central or state government having the power to investigate.

B Actions against bidder(s) indulging in corrupt/ fraudulent/ collusive/ coercive practice

B.1 Irregularities noticed during the evaluation of the bids:

Suppose during the bidding process/ bids evaluation stage, a bidder has indulged in corrupt/ fraudulent/ collusive/ coercive practice. In that case, the bid of such Bidder(s) shall be rejected, and its Earnest Money Deposit (EMD) shall be forfeited.

Further, such agency shall be banned for future business with GASONET for a period specified in para B2.2 below from the date of issue of the banning order.

B.2 Irregularities noticed after the award of the contract

(i) During the execution of the contract:

Suppose an agency is found to have indulged in corrupt/ fraudulent/ collusive/ coercive practices during the execution of the contract. In that case, the agency shall be banned from future business with GASONET for a period specified in para B 2.2 below the date of issue of the banning order.

The concerned order (s)/ contract(s) where corrupt/ fraudulent/ collusive practices are observed shall be suspended with immediate effect by the Engineer-in-Charge (EIC)/ Employer, whereby the supply/ work/ service and
etc. will be suspended. The action shall be initiated to put the agency on ban.

After the conclusion of the process, the order(s)/ contract(s) where it is concluded that such irregularities have been committed shall be terminated, and the Contract cum Performance Bank Guarantee (CPBG) submitted by the agency against such order(s)/ contract(s) shall also be forfeited. The amount that may have become due to the contractor due to work already executed by him shall be payable to the contractor. This amount shall be subject to adjustment against any amounts owing from the contractor under the terms of the contract.

No risk and cost provision will be enforced in such cases.

(ii) After execution of the contract and during the Defect liability period (DLP)/ Warranty/ Guarantee Period

Suppose an agency is found to have indulged in corrupt/ fraudulent/ collusive/ coercive practices after the execution of the contract and during the DLP/ Warranty/ Guarantee Period. In that case, the agency shall be banned for future business with GASONET for a period specified in para B 2.2 below from the date of issue of the banning order.

Further, the Contract cum Performance Bank Guarantee (CPBG) submitted by the agency against such order(s)/ contract(s) shall be forfeited.

(iii) After the expiry of the Defect liability period (DLP)/ Warranty/ Guarantee Period

Suppose an agency is found to have indulged in corrupt/ fraudulent/ collusive/ coercive practices after the Defect liability period (DLP)/ Warranty/ Guarantee Period expires. In that case, the agency shall be banned for future business with GASONET for a period specified in para B 2.2 below from the date of issue of the banning order.

B.2.2 Period of Banning

The banning period shall be reckoned from the date of the banning order and shall be three years. In exceptional cases where the act of vendor/ contractor threatens National Security, the banning shall be indefinite.

C Effect of banning on other ongoing contracts/ tenders

C.1 If an agency is put on Banning, such an agency should not be considered in ongoing tender/ future tenders.

C.2 However, suppose such an agency is already executing other order(s)/ contract(s) where no corrupt/ fraudulent/ collusive/ coercive practice is found. In that case, the agency should be allowed to continue till its completion without any further increase in scope except those incidentals to the original coverage mentioned in the contract.

C.3 If an agency is put on the Banning List during tendering and no irregularity is found in the case under process:

C.3.1 After the issue of the enquiry/ bid/ tender but before the opening of the Technical bid, the bid submitted by the agency shall be ignored.

C.3.2 After opening the Technical bid but before opening the Price bid, the Price bid of the agency shall not be opened, and BG/ EMD submitted by the agency shall be returned to the agency.

C.3.3 After the opening price, BG/ EMD made by the agency shall be returned; the agency's offer shall be ignored & will not be further evaluated. Suppose the agency is put on the banning list for fraud/misappropriation of facts committed in the same tender/ other where the errant agency emerges as the lowest(L1). In that case, such tender shall also be cancelled and re-invited.

D. Procedure for Suspension of Bidder

D.1 Initiation of Suspension

Action for suspension of business dealing with any agency/ (ies) shall be initiated by the Corporate C&P Department when

(i) Non-performance of Vendor/ Supplier/ Contractor/ Consultant leading to termination of Contract/ Order.

D.2 Suspension Procedure

D.2.1 The suspension period can be extended with the approval of the Competent Authority by one month at a time with a ceiling of six months pending a conclusive decision to put the agency on the banning list.

D.2.2 No new business dealings may be held with the agency during suspension.

D.2.3 The suspension period shall be accounted for in the final order passed for banning business with the agency.

D.2.4 The decision to suspend business dealings should also be communicated to the agency.

D.2.5 If a prima facie case is made out that the agency is guilty on the grounds which can result in the banning of business dealings, a proposal for issuance of a suspension order and show Cause notice shall be put up to the Competent Authority. The suspension order and show cause notice must include that (i) the agency is on the suspension list and (ii) why action should not be taken to ban the agency for future business from GASONET.

The competent authority to approve the suspension will be the same as that for approval for banning.

D.3 Effect of Suspension of Business

The effect of suspension on other ongoing/ future tenders will be as follows:

D.3.1 No enquiry/ bid/ tender shall be entertained from an agency as long as the agency's name appears in the Suspension List.

D.3.2 If an agency is put on the Suspension List during tendering:

D.3.2.1 After the issue of the enquiry/ bid/ tender but before the opening of the Technical bid, the bid submitted by the agency shall be ignored.

D.3.2.2 After opening the Technical bid but before opening the Price bid, the Price bid of the agency shall not be opened, and BG/ EMD submitted by the agency shall be returned to the agency.

D.3.2.3 After the opening price, BG/ EMD made by the agency shall be returned; the agency's offer shall be ignored & will not be further evaluated. Suppose the agency is put on the Suspension list for fraud/misappropriation of facts conducted in the same tender/ other tender where the errant agency emerges as the lowest (L1). In that case, such tender shall also be cancelled and re-invited.

D.3.3 The existing contract(s)/ order(s) under execution shall continue.

D.3.4 Tenders invited for procurement of goods works. Services shall have a provision that the bidder shall submit an undertaking to the effect that (i) neither the bidder nor their allied agency/ (ies) are on the banning list of GASONET or the Ministry of Petroleum and Natural Gas and any Government department/ Public Sector does not ban (ii) bidder.

E. Appeal against the Decision of the Competent Authority

E.1 The agency may file an appeal against the order of the Competent Authority to put the agency on the banning list. The appeal shall be filed to the Appellate Authority. Such an appeal shall be preferred within one month of receiving the banning order.

E.2 The Appellate Authority would consider the appeal and pass an appropriate order, which shall be communicated to the party and the Competent Authority.

E.3 The appeal process may be completed within 45 days of filing the appeal with the Appellate Authority.

F. Wherever there is a contradiction concerning the terms of GCC and 'Procedure for action in case of Corrupt/ Fraudulent/ Collusive/ Coercive Practice', the provisions of 'Procedure for action in case of Corrupt/ Fraudulent/ Collusive/ Coercive Practice' shall prevail.

Annexure-II

PROCEDURE FOR EVALUATION OF PERFORMANCE OF VENDORS/ SUPPLIERS/ CONTRACTORS/ CONSULTANTS

1.0 OBJECTIVE

Evaluation of Performance aims to recognize and develop reliable Vendors/ Suppliers/Contractors/ Consultants to consistently meet or exceed expectations and requirements.

The purpose of this procedure is to put in place a system to monitor the performance of Vendors/ Suppliers/Contractors/ Consultants associated with GASONET in Projects and in O&M to ensure timely completion of various projects, timely receipt of supplies, including completion of works & services for operation and maintenance of operating plants and quality standards in all respects.

2.0 METHODOLOGY

i) Preparation of Performance Rating Data Sheet

Performance rating data Sheet for every Vendor/ Supplier/Contractor/ Consultant for all orders/Contracts with a value of Rs.7 Lakhs and above is recommended to be drawn up. These data sheets are to be separately prepared for orders/ contracts related to Projects and O&M. Format, Parameters, Process, and Responsibility for preparation of Performance Rating Data Sheet are separately mentioned.

ii) Measurement of Performance

Based on the parameters defined in the Data Sheet, the Performance of the concerned Vendor/ Supplier/Contractor/ Consultant would be computed and graded accordingly. The measurement of the performance of the Party would be its ability to achieve the minimum scoring of 60% points in the given parameters.

iii) Initiation of Measures:

Depending upon the Grading of Performance, corrective measures would be initiated by taking up the matter with the concerned Vendor/ Supplier/Contractor/ Consultant. The response of the Vendor/ Supplier/Contractor/ Consultant would be considered before deciding on a further course of action.

iv) Implementation of Corrective Measures:

Based on the response of the Vendor/ Supplier/Contractor/ Consultant, the concerned engineer—in—charge for the Projects and/or OIC in case of O&M would recommend the continuation or discontinuation of such party from the business of GASONET.

v) Orders/contracts placed on a Proprietary/OEM basis for O&M will be evaluated, and if required, corrective action will be taken for improvement in future.

PROCESS OF EVALUATION OF PERFORMANCE OF VENDORS/ SUPPLIERS/ CONTRACTORS/ CONSULTANTS

3.1 FOR PROJECTS

i) Evaluation of the performance of Vendors/ Suppliers/Contractors/ Consultants in case of PROJECTS shall be done immediately with the commissioning of any Project.

ii) On commissioning of any Project, the EIC (Engineer-in-charge)/ Project-in-charge shall prepare a Performance Rating Data Sheet (Format at Annexure— A) for all Orders and Contracts.

iii) Depending upon the Performance Rating, the following action needs to be initiated by the Engineer-in-charge/Project-in-charge:

SI.NO.	Performance Rating	Action
1	POOR	Seek an explanation for Poor performance
2	FAIR	Seek an explanation for Fair performance
3	GOOD	Letter to the concerned for improving performance in future
4	VERY GOOD	No further action

iv) Reply from the concerned Vendor/ Supplier/Contractor/ Consultant shall be examined. In case of a satisfactory answer, the Performance Rating Data Sheet is to be closed with a letter to the concerned for improving performance in future.

v) When no reply is received or the reasons indicated are unsatisfactory, the following actions need to be taken:

(A) Where Performance rating is "POOR":

Recommend such defaulting Vendor/ Supplier/Contractor/ Consultant for putting on Holiday for a period from one to three years as given below:

- Poor Performance due to reasons other than Quality: **One Year**
- Poor Performance on Account of Quality (if any mark obtained against the Quality parameter is less than 30): **Two Years**
- Poor Performance leading to termination of contract or Offloading of contract due to poor performance solely attributable to Vendor/ Supplier/Contractor/ Consultant or Repeated Offence: **Three Years**

Non-performance of a Vendor/Supplier/Contractor/Consultant leading to termination of Contract/ Order, such Vendor/ Supplier/ Contractor/Consultant are also to be considered for Suspension.

In all such cases, the concerned site will put up a recommendation for issuance of SCN and put the party on the suspension list as per the process defined for suspension in "Procedure for Action in case of Corrupt/ Fraudulent/ Collusive/ Coercive Practices."

(B) Where Performance rating is "FAIR":

Recommend issuing warnings to such defaulting Vendors/Suppliers/Contractors/Consultants to improve their performance.

3.2 FOR CONSULTANCY JOBS

Monitoring and Evaluating consultancy jobs will be carried out as described in para 3.1 for Projects.

3.3 FOR OPERATION & MAINTENANCE

i) The performance of Vendors/ Suppliers/Contractors/ Consultants in Operation and Maintenance shall be evaluated immediately after execution of the order/ contract.

ii) After execution of orders, a Performance Rating Data Sheet (Format at Annexure-2) shall be prepared for Orders by Site C&P and Contracts/Services by the respective Engineer-In-Charge.

i) Depending upon the Performance Rating, the following action needs to be initiated by the Engineer-in-charge/Project-in-charge:

SI.NO.	Performance Rating	Action
1	POOR	Seek an explanation for Poor performance
2	FAIR	Seek an explanation for Fair performance
3	GOOD	Letter to the concerned for improving performance in future
4	VERY GOOD	No further action

ii) Reply from the concerned Vendor/ Supplier/Contractor/ Consultant shall be examined. In case of a satisfactory answer, the Performance Rating Data Sheet is to be closed with a letter to the concerned for improving performance in future.

iii) When no reply is received or the reasons indicated are unsatisfactory, the following actions need to be taken:

(A) Where Performance rating is "POOR":

Recommend such defaulting Vendor/ Supplier/Contractor/ Consultant for putting on Holiday for a period from one to three years as given below:

- Poor Performance due to reasons other than Quality: **One Year**
- Poor Performance on Account of Quality (if any mark obtained against the Quality parameter is less than 30): **Two Years**
- Poor Performance leading to termination of contract or Offloading of contract due to poor performance solely attributable to Vendor/ Supplier/Contractor/ Consultant or Repeated Offence: **Three Years**

Non-performance of a Vendor/Supplier/Contractor/Consultant leading to termination of Contract/ Order, such Vendor/ Supplier/ Contractor/Consultant are also to be considered for Suspension.

In all such cases, the concerned site will put up a recommendation for issuance of SCN and put the party on the suspension list as per the process defined for suspension in "Procedure for Action in case of Corrupt/ Fraudulent/ Collusive/ Coercive Practices."

(B) Where Performance rating is "FAIR":

Recommend issuing warnings to such defaulting Vendors/Suppliers/Contractors/Consultants to improve their performance.

3.2 FOR CONSULTANCY JOBS

Monitoring and Evaluating consultancy jobs will be carried out as described in para 3.1 for Projects.

3.3 FOR OPERATION & MAINTENANCE

i) The performance of Vendors/ Suppliers/Contractors/ Consultants in Operation and Maintenance shall be evaluated immediately after execution of the order/ contract.

ii) After execution of orders, a Performance Rating Data Sheet (Format at Annexure-2) shall be prepared for Orders by Site C&P and Contracts/Services by the respective Engineer-In-Charge.

iii) Depending upon the Performance Rating, the following actions need to be initiated by Site C&P:

Sl. No.	Performance Rating	Action
1.	**POOR**	Seek an explanation for Poor performance.
2.	**FAIR**	Seek an explanation for Fair performance.
3.	**GOOD**	Letter to the concerned for improving performance in future.
4.	**VERY GOOD**	No further action

iv) Reply from the concerned Vendor/ Supplier/Contractor/ Consultant shall be examined. In case of a satisfactory response, the Performance Rating Data Sheet is to be closed with a letter to the concerned for improving performance in future.

(i) When no reply is received or the reasons indicated are unsatisfactory, the following actions need to be taken:

A) Where the performance rating is "POOR."

Recommend such defaulting Vendor/Supplier/Contractor/ Consultant for putting off on Holiday for a period from one to three years as given below:

(i) Poor Performance due to reasons other than Quality: **One Year**

(ii) Poor Performance, on account of Quality (if any mark obtained against the Quality parameter is less than 30): **Two Years**

(iii) Poor Performance leading to termination of contract or offloading of contract due to poor performance solely attributable to Vendor/Supplier/Contractor/Consultant or Repeated Offence: **Three Years**

Non-performance of a Vendor/Supplier/Contractor/Consultant leading to termination of Contract/ Order such Vendor/ Supplier/ Contractor/Consultant are also to be considered for Suspension.

In all such cases, the concerned site will recommend issuing SCN and putting the party on the suspension list as per the process defined for suspension in "Procedure for Action in case of Corrupt/ Fraudulent/ Collusive/ Coercive Practices."

B) Where the Performance rating is "FAIR."

Recommend issuing warnings to such defaulting Vendors/Contractors/Consultants to improve their performance.

4.0 EXCLUSIONS

The following would be excluded from the scope of evaluation of the performance of Vendors/ Suppliers/Contractors/ Consultants:

i) Orders/ Contracts below the value of Rs.7 Lakhs.

ii) One-time Vendor/ Supplier/Contractor/ Consultant.

iii) Orders for Misc./Administrative items/Non-stock Non-evaluated items.

However, the concerned Engineer——Charge /OlCs will continue to monitor such cases to minimize the impact on Projects/O&M plants due to the non-performance of Vendors/Suppliers/Contractors/ Consultants in all such matters.

5.0 REVIEW AND RESTORATION OF PARTIES PUT ON HOLIDAY

5.1 An order for a Holiday passed for a certain specified period shall deemed to have been automatically revoked on the expiry of that specified period, and it will not be necessary to issue a specific formal order of revocation.

Further, suppose the Vendor/ Supplier/Contractor/ Consultant is on holiday due to quality. In that case, and a new order is placed on the bidder after the restoration of the Vendor/ Supplier/Contractor/ Consultant, such charge will be monitored appropriately during the execution stage by the concerned site.

6.0 EFFECT OF HOLIDAY

6.1 If a Vendor/ Supplier/ Contractor/ Consultant is put on Holiday, such Vendor/ Supplier/ Contractor/ Consultant should not be considered in ongoing tenders/future tenders.

6.2 However, if such Vendor/ Supplier/Contractor/ Consultant is already executing any other order/ contract and their performance is satisfactory in terms of the relevant agreement, it should be allowed to continue till its completion without any further increase in scope except those incidentals to original content mentioned in the contract. In such a case, CPBG will not be forfeited, and payment will be made per the provisions of the concerned agreement. However, this would be without prejudice to other terms and conditions of the contract.

6.3 Effect on other ongoing tendering:

6.3.1 After the issue of the enquiry /bid/ tender but before the opening of the Technical bid, the bid submitted by the party shall be ignored.

6.3.2 After opening the Technical bid but before opening the Price bid, the Price bid of the party shall not be opened, and BG/ EMD submitted by the party shall be returned to the party.

6.3.3 After the opening price, BG/EMD made by the party shall be returned; the party's offer shall be ignored & will not be further evaluated. If an errant party emerges as the lowest (Ll), such tender shall be cancelled and—invited.

7.0 While putting the Vendor/ Supplier/ Contractor/ Consultant on holiday as per the procedure, the holding company, subsidiary, joint venture, sister concerns, or group division of the errant Vendor/ Supplier/ Contractor/ Consultant shall not be considered for putting on the holiday list.

Any bidder put on a holiday will not be allowed to bid through the consortium route in a new tender during the holiday period.

8.0 Suppose an unsuccessful bidder makes any vexatious, frivolous or malicious complaint against the tender process to delay or defeat any procurement or cause loss to GASONET or any other bidder. In

that case, such bidder will be put on holiday for six months if the complaint is vexatious, frivolous or malicious after following the due procedure.

9.0 **APPEAL AGAINST THE DECISION OF THE COMPETENT AUTHORITY**

(a) The party may file an appeal against the order of the Competent Authority for putting the party on the Holiday list. The request shall be filed to Appellate Authority. Such an appeal shall be preferred within one month of receiving the Holiday order.

(b) The Appellate Authority would consider the appeal and pass an appropriate order to be communicated to the party and the Competent Authority.

(c) The appeal process may be completed within 45 days of filing the appeal with the Appellate Authority.

(d) "Appellate Authority" shall mean Chairman, GASONET, for works approved by Managing Director and Director Commercial, jointly or severally, GASONET.

10.0 **ERRANT BIDDER**

In case after the price bid opening, the lowest evaluated bidder (L1) is not awarded the job for any mistake committed by him in bidding or withdrawal of bid or modification of bid or varying any term in regard thereof leading to—tendering, GASONET shall forfeit EMD paid by the bidder and such bidders shall be debarred from participation in re-tendering of the same job(s)/item(s).

Further, such a bidder will be put on holiday for six months after following the due procedure.

11.0 Suppose the GST department brings to the notice of GASONET that a Party has not paid the credit of the Government the GST collected from GASONET. In that case, the party will be put on holiday for six months after following the due procedure.

.....

Annexure – A

PERFORMANCE RATING DATASHEET
(FOR PROJECTS/ CONSULTANCY JOBS)

i) Project/Work Centre :

ii) Order/ Contract No. & date :

iii) Brief Description of Items Works/Assignment :

iv) Order/Contract value (Rs.) :

v) Name of Vendor/Supplier/ Contractor/ Consultant :

vi) Contracted delivery/ Completion Schedule :

vii) Actual delivery/ Completion date :

Performance Parameter	Delivery/ Completion Performance	Quality Performance	Reliability Performance#	Total
Maximum Marks	40	40	20	100
Marks Allocated				

Note:
Remarks (if any)

PERFORMANCE RATING (**) [ ]

Note:
(#) Vendor/Supplier/Contractor/Consultant who seeks repeated financial assistance or deviation beyond contract payment term or seeking direct payment to the sub-vendor/subcontractor due to financial constraints, then '0' marks should be allotted against Reliability

(*) Allocation of marks should be as per the enclosed instructions

(**) Performance rating shall be classified as follows:

Sl.No.	Range (Marks)	Rating
1	60 & below	POOR
2	61-75	FAIR
3	76-90	GOOD
4	More than 90	VERY GOOD

Signature of Authorized Signatory:
Name:
Designation:

Instructions for allocation of marks

1. Marks are to be allocated as follows:

1.1. DELIVERY / COMPLETION PERFORMANCE 40 Marks

Delivery Period/ Completion Schedule	**Delay in Weeks**	**Marks**
a)Up to 3 months	Before CDD	40
	Delay up to 4 weeks	35
	" 8 weeks	30
	" 10 weeks	25
	" 12 weeks	20
	" 16 weeks	15
	More than 16 weeks	0

b) Above three months	Before CDD	40
	Delay up to 4 weeks	35
	" 8 weeks	30
	" 10 weeks	25
	" 16 weeks	20
	" 20 weeks	15
	" 24 weeks	10
	More than 24 weeks	0

1.2. QUALITY PERFORMANCE 40 Marks

For Normal Cases: No Defects/No Deviation/ No failure: 40 marks

i. Rejection /Defects	Marks to be allocated on A prorate basis for acceptable Quantity as compared to total Quantity for normal cases	10 Marks
ii. When quality failure endangers system integration and safety of the stem.	Failure of a severe nature — Moderate nature - low severe nature	0 Marks 5 Marks 10-25 Marks
iii. Number of deviations	1. No deviation 2. No. of deviations < 2 3. No. of deviations > 2	5 Marks 2 Marks 0 Marks.

1.3. RELIABILITY PERFORMANCE 20 Marks

A.	**FOR WORKS/CONTRACTS**	
i)	Submission of order acceptance, agreement, PBG, Drawings and other documents within time	4 marks
ii)	Mobilization of resources as per Contract and in time	4 marks
iii)	Liquidation of Checklist points	4 marks
iv)	Compliance with statutory and HS&E requirements Or Reliability of Estimates/Design/Drawing, etc. in case of Consultancy jobs	4 marks
v)	Timely submission of estimates and other documents for Extra, Substituted & AHR items	4 marks
B.	**FOR SUPPLIES**	
i)	Submission of order acceptance, PBG, Drawings and other documents within time	5 marks
ii)	Attending complaints and requests for after-sales service/ warranty repairs and/ or query/ advice (up to the evaluation period).	5 marks
iii)	Response to various correspondence and conformance to standards like ISO	5 marks
iv)	Submission of all required documents, including Test Certificates at the time of supply	5 marks

SECTION – III

GENERAL CONDITIONS OF CONTRACT [GCC]

(ATTACHED AS A SEPARATE FILE)

The General Conditions of Contract contain standard conditions of all contracts awarded by GASONET. Regular vendors/ bidders of GASONET are well acquainted with the GCC. GCC, being voluminous in size, is not attached to this Tender Document. However, a copy of the General Conditions of Contract [GCC] has been made available in the office for ready reference of all the prospective vendors/ bidders. Vendors/ Bidders are requested to refer to the GCC before preparing/ submitting their Bid/ Offer for the subject work.

The above-referred GCC shall be part and parcel of the contract for the subject work and shall be accepted, signed and stamped by the successful bidder at the time of the work award, and the Bidder agrees/receives for the same.

SECTION – IV
TECHNICAL SPECIFICATION/SOW
(LAYING OF MDPE NETWORK, GI/CU/MLC INSTALLATION)

TABLE OF CONTENTS

1. Introduction
2. Purpose
3. Documents Precedence
4. Scope of Work
5. Condition For Issue of Material
6. Reconciliation of Owner Supplied Material

1.0 INTRODUCTION

Gasonet is a City Gas Distribution (CGD) Company with its services in 4 Geographical Areas, as allotted by PNGRB in the 11th CGD Bidding.

PNGRB allotted 4 Geographical Areas (GAs) to Gasonet in the 11th CGD Bidding in 2021. We have started our operations in all these 4 GAs.

➢ GA 11.42 : Bikaner and Churu Districts of Rajasthan.
➢ GA 11.16 : Mandi, Kullu, Kinnaur and Lahaul & Spiti Districts of Himachal Pradesh.
➢ GA 11.64 : Pauri Garhwal, Uttarkashi, Rudraprayag, and Tehri Garhwal Districts of Uttarakhand.
➢ GA 11.65 : Chamoli, Champawat, Almora, Pithoragarh and Bageshwar Districts of Uttarakhand.

2.0 PURPOSE

This document is for the scope of hiring contractor for Laying of MDPE Network, GI/CU/MLC Installation.

3.0 Documents Precedence

It shall be the responsibility of the Contractor/ Bidder to inform the OWNER of any errors, ambiguities, inconsistencies, discrepancies, or conflict of information that may be found to exist in any document, specification or drawing provided in the tender by the OWNER. In case of conflict, the order of precedence shall be as follows:

a) Scope of Work (SOW)
b) Schedule of Rates (SOR)
c) Data Sheets & QAP
d) Standard Specifications
e) Codes and Standards

As a general rule in the event of any discrepancy between technical matter and local laws/ regulations (and documents above listed) the most stringent shall be applied.

CONTRACTOR/ BIDDER shall notify OWNER of any apparent conflicts between SOW, Technical specifications, related datasheets, any code and standards and any other specifications noted herein. (Resolution and/ or interpretation precedence shall be obtained from OWNER in writing before proceeding with the design/ manufacturer or completion of services.)

4.0 SCOPE OF WORK

The main scope of work comprises laying, testing, and commissioning of underground Medium Density Polyethylene (MDPE) service pipelines network of sizes ranging from 20mm up to 125 mm Dia., along with above ground GI/ MLC pipe installation (LMC) and Installation of DRS / MRS / Metering Skid / SR / Meters / Regulators etc., as per SOR. The scope also covers all the activities associated with the supply of materials (except free issue items).

COMPLETION PERIOD- The completion period for each order work shall be 6 (six) months, including final bill closure.

OWNER's SCOPE OF SUPPLY (FREE ISSUE ITEM):

- MDPE Pipes and MDPE Fittings of all diameters from **20 mm to 125 mm**
- **GI Pipe – ½" only**
- Isolation Valves from **½" to 1"**
- MLC Pipes
- Gas Meters, Regulators, **DRS, MRS, SR**, and Skid
- Appliance Valves – **½" size**

CONTRACTOR'S SCOPE OF WORK/ SUPPLY

- Supply and installation of powder-coated GI / MLC fittings and pipe clamps of all sizes.
- Supply and installation of isolation valves above 1" size, as required at site.
- Supply and installation of GI pipes above ½" up to 2", as required at site.
- Supply and installation of GI sleeves / half-round concrete sleeves.
- Supply and installation of welded riser – 1" size.
- Supply and installation of CS pipes and fittings as per relevant SOR items.
- Supply and installation of reinforced rubber hose (1 m length) with hose clamps on both sides, including all materials required for natural gas conversion (jets, drilling, etc.).
- Supply and installation of RCC Route marker, Plate Marker, Pole Marker.
- Supply Fabrication and installation of SR box.
- Supply and laying of warning mat.
- Providing and laying PCC, RCC, and execution of all necessary civil works as per relevant SOR items.
- Supply, fabrication, and erection of wire cages for MRS and crash guards for protection.
- Provision of all PPE materials required for safe execution of the project (no extra cost shall be payable by Gasonet).
- Supply and Installation of HDPE casing for MDPE pipe protection.
- Supply of all materials required for PNG industrial and commercial connections, excluding meters, regulators, and 1" isolation valves.
- Supply of all other materials required for smooth execution of the project, over and above those mentioned above.

Generally, the following shall constitute the Contractor's scope of work but not limited to:

1. Contractor to provide Work Implementation & Execution plan along with a schedule for execution and work implementation as per QA/QC plans to be issued by Owner/Owner's representative. Contractor has to submit the Construction/ Execution procedures before commencement of work to Owner/ Owner's representative for approval.
2. Prior to start of construction activity, contractor shall carry out the route survey and prepare the approval for construction drawings marked for proposed gas pipe line laying and submit to OWNER/ EIC for approval. The standard templates and colour coding as per Owners standard.
3. Co-ordination/ Liaison from respective land-owning agencies such as Municipal Corporation, CPWD, Nagar Nigam, PWD-NH, NHAI, Indian Railway, Forest & Environment Department, Irrigation department and other land owing agencies for road cutting for laying of the pipelines, Liaison with the concerned authorities during execution of the job, obtaining NOC from concerned authorities .
4. Obtaining clearances and coordination with concerned RWA of the allotted area for internal network laying and obtaining NOC from RWA after completion of work.
5. Transportation of Free Issue material from OWNER stores to contractor stores and proper storing, stacking, providing security, insurance cover during transportation and storage, laying, commissioning and handing over pipelines to owner.
6. Intimation to the parallel utilities (Electrical/ Communication/ Water) owners and making trial pits to determine the underground utilities/services such as existing pipelines, cables (electrical/ communication), conduits, U/G drainage, Sewers, tunnels, subways foundations etc. for deciding optimum feasible route and depths for laying the pipelines based on the route plans indicated by owner.
7. The Contractor shall bear full responsibility for any damages or claims arising from failure to comply with this clause, including damages to existing underground utilities.

8. Contractor must arrange road cutter machine/ power tools for all areas where road cutting needs to be done.
9. Wherever required, the grass/ turfing, pavement, linings, drains, roads and other such 'pucca' area shall be locally removed to facilitate trenching and pipe laying works. The same is to be reinstated as original.
10. Installation of safety/warning signs and barricading of the entire route to be trenched. Pits to be similarly barricaded along with warning signs and caution boards.
11. To make trenches with stable slopes but restricting minimum disturbance to above ground/underground services/installation as per specifications and approved route plans keeping the trenches free from water and soil till placement of pipes.
12. Uncoiling/stringing the MDPE pipes of required sizes (i.e. 180, 125, 63, 32 & 20 mm) pipes into trenches as per procedure.
13. Installation of MDPE pipe and fittings like Elbow, Tees, Reducers, Couplers, tapping saddles, Transition fittings, End cap and Sleeves etc. including construction of supports, Valves pits, Inspection chambers etc. as per specification, drawing & satisfaction of the Engineer in charge (EIC).
14. Joining the pipe ends with fittings of valves by approved automated electro-fusion techniques only as directed by EIC.

- EF operator to be deployed for EF welding must be certified from approved vendors of EF fittings manufacturer like GF/ Kimplas etc.
- Contractor obtain latest welder I-Card by getting training from approved agencies with practical knowledge of welding on highest dia. on which work is intended.
- Contractor arrange to have reports of destructive testing of GI fittings for a lot every six months at its own cost to ensure the quality of GI fittings as per instructions of EIC.

15. Contractor must ensure that the man power deployed at site should have valid STC card.
16. Laying pipelines by any methodology including trench less technology methods with or without casing pipes (MDPE pipes) as per specifications and as directed by EIC.
17. Installation of pipes (by open cut/ Moling/ HDD) assembly, including supply of all materials (excluding free issue material if any) viz. as per the specifications enclosed with bid package. HDD methodology and its profile submission prior to execution of HDD should be in contractor scope.
18. Moling should be done with proper ventilation in Moling pit. Electrical utility to be identified prior to attempting manual boring.
19. HDD profile & Utility coordination report to be submitted.
20. In case, it is impractical to provide 1.0-meter cover due to physical constrain, additional protective measures such as concrete slab or high impact resistance plastic sheet shall be installed (for the minimum top cover of 600 mm) by the contractor in consultation with EIC/ Site-in-charge. EIC/ Site-in-charge after examining thoroughly and considering the PNGRB Guidelines may allow the contractor. However, the contractor has to raise technical deviation for approval before commencing of work. All the technical deviation shall be submitted with the RA bills.
21. Contractor should submit following set of daily reports (Planning, Manpower, Material Inventory, DPR) and monthly reports (QC, Meter reconciliation, material reconciliation, DPR, etc.)
22. Contractor must also have to arrange his own equipment like water tanker for Water showering on construction site (trench valves pit areas).
23. Contractor to depute Store keeper and draftsmen for each GA. 1 supervisor required for each site area. 1 safety officer required for per zone.

24. Fabrication, supply and inspection of approved quality GI sleeve, half concrete sleeves and other material, fittings to be supplied by the contractors as per the provisions of tender.
25. Back filling and compaction by jumping jack compactor wherever required, using approved 'good' soil or using excavated earth or borrow earth as per requirement and specifications and replacement of the tiles, slabs removed during the excavation. Cleaning all unserviceable materials, debris, excess earth trenches etc. to designated disposal area.
26. The contractor shall be responsible to arrange the supply of approved coarse sand (size 0.6 - 2 mm as per IS 383) free from any impurities like clay, mica, and soft flaky pieces, as per the instructions of EIC /Owner's representative.
27. Sand / soft soil padding around pipe wherever required in areas where trenching has been done in hard soil area / rocky area including supply of sand/ soft soil. The thickness of sand/ soft soil padding at the top of coated pipe shall be minimum 150 mm and bottom of coasted pipe shall be minimum 150 mm.
28. Carrying out pneumatic testing and purging as per specifications and approved procedures, providing all tools & tackles, instruments, manpower and other related accessories for carrying out the testing of pipes.
29. Supply, fabrication & installation of Plate markers, valve chamber etc. as per the directions of the EIC/Owner's representative.
30. Supply, fabrication & installation of Pipeline markers as per relevant SOR Items.
31. Purging should be done to point till Oxygen percentage is less than 2%. Contractor must arrange Purity certificate of N2 used for purging. It is compulsory to use Nitrogen cylinder trolley while using Nitrogen for purging/ testing. It must be necessary to qualify welder/ manpower for Procedure Qualification Record for performing testing by pressure testing the MDPE pipe coil.
32. Restoration of existing ground features such as grass/ turfing, paving, roads, drains, concrete, floral beds, fencing, tiles, marbles, flooring masonry etc. to original condition and to match with adjoining conditions, functionally and aesthetically up to the entire satisfaction of Owner / Owner's representative /any other third-party agency designated by owner and local authorities, failing which, it will be done at the risk and cost of the contractor. Obtaining No Objection Certificates for the restoration work done from the concerned authorities.
33. Returning surplus material to Owner stores after obtaining clearance from TPIA/Consultant/ Owner, reconciliation of free issue material/ consumables.
34. Handing over the completed works to owner along with detailed as built drawing showing pipeline route, fittings provided in the pipelines, for their operation purposes. Handing over 4 sets of completed as Built drawings (1 Colour and 3 No's of Balck & white Sketch) in editable Auto-Cad as well as PDF format and Also required handing over of GI/Cu/MLC work of above ground drawings (including Riser drawings and domestic PNG connections drawings).
35. Maintaining the completed pipelines/installation for any failure and defect arising due to poor workmanship during defect liability period.
36. Preparation and submission of all documents like Pit Wise as graph, As-built drawings, details of crossings, utility graphs, measurement sheet, PE cards for service line and deviation statements on completion/commissioning of work by way of drawing, sketches and tables in soft & hard copy.
37. Providing adequate manpower, tools, tackles, equipment including client prescribed special tools, devices for achieving the target of pipeline laying, data logging for pipeline, valves and fittings inventory status, attending complaints, day to day interaction with customers and residents so that work can be executed within defined time period with safety.
38. Contractors' responsibility to provide details as follows (whenever required by client): collection of industry details, its current fuel and its consumption and product they manufacture.

Identify and locate the collector rate applicable in the particular road in case of NHAI, Forest and Railway. Contractor should Indicate pipeline route for EIC approval and indicate line sizing after network hydraulics check/ confirmation by EIC. Contractor should identify and indicate the name of local authority maintaining the road or drainage/ canal Should provide hard copy of final survey drawing after incorporating all comments from owner's representative. (For Discussion)

39. Contractor shall visit and survey all areas where PE laying is planned or in progress to carry out LMC work in all such areas.

Part I: MDPE Service Line

1. Obtaining the approval for optimum route and permission for work from society management, RWA, individual residents and any other concerned authority, if required, for completion of the work.
2. Selection of route with the Owner/Consultant/TPIA and marking the same on walls/floors from PE network, transition fittings to stove/cooking oven/appliance, making openings and making provisions for fixing clamps. Making temporary but stable platforms/scaffolding/rope/ladder etc., required for installation of pipes/fittings at all heights/multi storied flats and locations. Vendor to ensure 100% safe execution of work ensuring no damage to any human or property.
3. Uncoiling/stringing the MDPE pipes of required sizes (20mm, 32mm, 63mm, 125mm & 180mm) pipes into trenches ensuring no damage to pipe/ equipment's as directed by EIC.
4. Joining the pipe ends with fittings of valves by approved automated electro-fusion techniques only as per tender specification.
5. Receiving, Handling, Loading, Transportation and Unloading of owner supplied free issue materials including construction of supports, Valves pits, Inspection chambers etc. as per specification, drawing & satisfaction of the Engineer in charge (EIC).
6. Laying pipelines by any methodology including open cut, trench less technology methods like Moling, HDD, etc. as confirm by EIC.
7. Fabrication, supply and inspection of approved quality GI sleeve, HDPE duct and half concrete sleeves and other material, fittings to be supplied by the contractors as per the provisions of tender.
8. Back filling and compaction by jumping jack compactor wherever required, using approved 'good' soil or using excavated earth or borrow earth as per requirement and specifications and replacement of the tiles, slabs removed during the excavation. Cleaning all unserviceable materials, debris, excess earth trenches etc. to designated disposal area.
9. Carrying out pneumatic testing and purging as per specifications and approved procedures, providing all tools & tackles, instruments, manpower and other related accessories for carrying out the testing of pipes.
10. Restoration of existing ground features such as grass/turfing, paving, roads, drains, concrete, floral beds, fencing, tiles, marbles, flooring masonry etc. to original condition and to match with adjoining conditions, functionally and aesthetically up to the entire satisfaction of Owner / Owner's representative /any other third party agency designated by owner and local authorities, failing which, it will be done at the risk and cost of the contractor. Obtaining No Objection Certificates for the restoration work done from the concerned authorities.
11. Handing over the completed works to owner along with detailed as built drawing showing pipeline route, fittings provided in the pipelines, for their operation purposes.

Part II: Installation of GI/MLC

1. Installation of powder coated GI pipes between transition fittings to customer's kitchen appliances including NPT threading of GI pipes, supply including proper seal outs for threads to join fittings, all GI fitting supply such as elbows, tees, connectors, regulators, meters, appliance & isolation valve, union etc., as per laid procedures and specification including clamping and sealing etc. The scratched powder coated GI pipe and fittings shall be painted after the testing of the GI installation.
2. Supply and Installation of GI fittings all size, GI pipe above ½ Inch" , Isolation valve above size 1", such as elbows, tees, connectors, union etc., complete as per procedures and specifications including clamping and sealing etc.
3. Supply of clamps for fixing pipes, meters, valves wherever required. Providing consumable grout material, repair/restoration of walls/floors changes for the pipes including the materials required for conversions and tools and tackles etc Shall be complete.
4. Installation of ½" to 1" inch Isolation Valve, Appliance Valve (free issue material) etc., to complete the connection to the customer's appliance/stove.
5. Cleaning, flushing, pneumatic testing and commissioning to the GI pipe and fittings, meters, valves etc., as per specification and hand over the same to Owner/customer to the entire satisfaction of EIC.
6. Conversion of all types of LPG kitchen appliance to NG based appliance along with supply and installation of Steel Reinforced Flexible Rubber Hose as per IS 9573.
7. Preparation and submission of customer on RFC card & recording Joint Meter Reading (JMR) of customer.
8. Dismantling of scaffolding/temporary structures and cleaning of site & restore the site as per its original condition.
9. Restoration of walls, flooring and other damages while executing the above ground installation.
10. All risers and lateral pipe shall be clamped to the building at intervals not exceeding 1 m in place of 1.5m. Two clamps to be installed at each bend fittings or Tee fittings. Clamps should be 150mm away from each joint. contractor has to supply different types/sizes of approved clamps.
11. Pneumatic testing of Riser at 2 bar (g) for 4 hours and MLC testing at 110 mbar for 15 minutes shall be done.
12. All GI fittings must be Powder coated.
13. Inspection: It is responsibility of contractor to get Job Card / RFC check drawing certified at site only by TPIA/Owner's Representatives.
14. 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 Owner.

Part III: Services related to Commercial and Industrial Connection

Supply and Installation of Commercial and Industrial Connections, including tapping off from the PE network, laying of MDPE pipeline with associated fittings, installation of GI pipes with associated fittings, and installation of meter and regulator, etc. All materials shall be supplied by the Bidder, excluding 1" isolation valve, PE pipes and PE fittings, meter, and regulator. All remaining materials required for completion of the job shall be in the Bidder's scope.

Variation in pressure and meter running fast issue shall be check by contractor time to time for smooth execution of projects.

5.0 CONDITIONS FOR ISSUE OF MATERIALS

Whenever any material is issued by Owner, following conditions for issue of material in addition to other conditions specified in the contract shall be applicable.

- Necessary indents will have to be raised by the Contractor as per procedure laid down by the Engineer-in-charge from time to time, when he requires the above material for incorporation in permanent works.
- Materials will be issued only for permanent works and not for temporary works, enabling works etc. unless specifically approved by the Engineer-in-charge and the same shall not be taken into account for the purpose of materials reconciliation.
- The contractor shall bear all other cost including lifting, carting from issue points to work site/ contractor's store, custody and handling etc. and return of surplus/ serviceable scrap materials to Owner's storage points to be designated by the Engineer in-charge etc. No separate payment for such expenditure will be made.
- No material shall be allowed to be taken outside the plant without a gate pass.
- The contractor shall be responsible for proper storage, preservation and watch & ward of the materials.

6.0 RECONCILIATION OF OWNER SUPPLIED MATERIALS

Every month, the contractor shall submit an account for all materials issued by Owner in the Performa prescribed by the Engineer-in-charge. On completion of the work the contractor shall submit "**Material Appropriation Statement"** for all materials issued by the Owner in the Performa prescribed by the Engineer-in-charge.

The contractor shall beer all other cost including lifting, carting from issue points to work site/ contractor's store, custody and handling etc. and return of surplus/ serviceable scrap materials to Owner's storage points to be designated by the Engineer-in-charge etc. No separate payment for such expenditure will be made.

Waste materials like part lengths of pipes and other partly used items are the property of Client and must be returned to the store with the appreciate documentation so that they can be considered as part of the material reconciliation.

Item	Unaccountable	Scrap
PE Pipe	1%	2 % (less Than 2.0 Mtr.)
GI Pipe	1%	2% (less than 0.5 Mtr.)
MLC Pipe	1%	2% (less than 0.5 Mtr.)
HDPE Pipe	1%	2 % (less Than 2.0 Mtr.)
Isolation valve and Appliance valve	0%	0%
HDPE Fitting	0%	0%
PE Fitting	0%	0%
Regulator and Meter	0%	0%
Service Regulator	0%	0%
PD Meter	0%	0%
PE Valve and TF	0%	0%
Consumables	Discretionary	

* In case supplied by Owner

Unaccountable wastage/ scrap shall be at actual as per site assessment subject to maximum as stated above.

The percentage allowance shall be accounted on the basis of final measurement book.

1. All unused, scrap materials and salvageable materials shall be the property of the Owner and shall be returned by the Contractor category-wise at his cost to the Owner's designated store

yard(s). In case the Contractor fails to do so/ or exceeds the limits of allowances specified above for scrap/ serviceable materials, then recovery for such quantities not returned as well as returned in excess of permitted limit by the Contractor will be done at the penal rate i.e. 200% of landed cost at the time of final bill/ closing of contract by Engineer-in-charge shall be effected from the Contractor's bill(s) or from any other dues of the Contractor to the Owner. Contractor shall be responsible for the adjustment/ weighment/ measurement of the surplus materials to be returned to the store. Contractor shall also be responsible for suitable segregation of returned materials into separate stacks of serviceable and scrap materials.

2. Scratched MDPE pipe line acceptable allowance should not more than 10 % of the O.D.

3. Wherever certain material is covered under Contractor's scope of supply whether part or in full for any item of work covered under SOR, no allowance towards wastage /scrap etc. shall be accounted for during execution stage.

STANDARD SPECIFICATION FOR LAYING OF POLYETHYLENE MAIN PIPELINES AND SERVICE PIPELINE FOR DOMESTIC CONNECTIONS

1.0 SCOPE OF WORK
2.0 MATERIAL, MANPOWER, EQUIPMENT AND MACHINERY
3.0 PROGRESS OF WORK
4.0 APPROVALS & PERMISSIONS FOR PIPELINE LAYING
5.0 REFERENCE SPECIFICATION, CODES AND STANDARD
6.0 QUALITY OF WORK
7.0 SAFETY
8.0 ROUTE SURVEY
9.0 ORGANISATION STRUCTURE
10.0 STRUCTURES, SERVICES AND OTHER PROPERTY
11.0 TRENCHING
12.0 LAYING
13.0 JOINTING OF POLYETHYLENE PIPE
14.0 BACKFILLING
15.0 MOLING
16.0 HORIZONTAL DIRECTIONAL DRILLING (HDD)
17.0 CASING PIPE
18.0 RESTORATION
19.0 TESTING
20.0 PURGING
21.0 VALVE PITS
22.0 WORKMANSHIP
23.0 ROUTE MARKERS
24.0 ASSISTANCE IN COMMISSIONING
25.0 STANDARD OF WORK
26.0 RECORDING (AS-BUILT DRAWINGS)
27.0 CIVIL WORKS

1.0 SCOPE OF WORK

Generally, the following shall constitute the contractor's scope of work but not limited to:

Plan and prepare a schedule for execution and work implementation as per QA/QC plans to be issued by Owner/Owner's representative. Contractor has to submit the Construction/Execution procedures before commencement of work to Owner/ Owner's representative for approval.

Prior to start of construction activity, contractor shall prepare route survey drawing in AUTO CAD / Computerized drawing (minimum size of sheet is A3) marked for proposed gas pipe line laying and submit to GSL for approval

Obtaining permissions from respective land-owning agencies such as MC, PWD, NHAI, Railway Irrigation department, Forest etc. for road cutting for laying of the pipelines, liaison with the concerned authorities during execution of the job, obtaining NOC from concerned authorities once the work is completed.

Obtaining clearances and coordination with concerned RWA of the allotted area for internal network laying and obtaining NOC from RWA after completion of work.

Transportation of Free Issue Material from GSL stores to contractor stores, proper storing, and stacking, providing security, transit insurance cover during storage, laying, commissioning and handling over pipelines to owner.

Obtaining the approval for optimum route and ROU from the concerned authority.

Making trial pits to determine the underground utilities/services such as existing pipelines, cables (electrical/communication), conduits, u/g drainage, sewers, tunnels, subways foundations etc. for deciding optimum feasible route and depths for laying the pipelines based on the route plans indicated by Owner.

Wherever required the grass/turfing, pavement, linings, drains, roads and other such 'pucca' area shall be locally removed to facilitate trenching and pipe laying works. The same is to be reinstated as original.

Installation of safety/warning signs and barricading of the entire route to be trenched. Pits to be similarly barricaded along with warning signs and caution boards.

To make trenches with stable slopes but restricting minimum disturbance to above ground/underground services/installation as per specifications and approved route plans keeping the trenches free from water and soil till placement of pipes.

Uncoiling/stringing the MDPE pipes of required sizes (i.e. 180, 125, 63, 32 & 20 mm) pipes into trenches as per procedure.

Joining the pipe ends with fittings of valves by approved automated electro-fusion techniques only as per procedure.

Installation of pipe fittings like elbow, tees, reducers, couplers, tapping saddles, transition fittings, valves etc., including construction of supports, valves pits, inspection chambers etc. as per specification & satisfaction of the EIC.

Laying pipelines by any methodology including trenchless technology methods with or without casing pipes (HDPE pipes) as per as directed by EIC.

Fabrication, supply and inspection of approved quality GI sleeve and half concrete sleeves and other materials, fittings to be supplied by the contractors as per the provisions .

Back filling and compaction by jumping jack compactor wherever required, using approved 'good' soil or using excavated earth or borrow earth as per requirement and specifications and replacement of the tiles, slabs removed during the excavation. Cleaning all unserviceable materials, debris, excess earth trenches etc. to designated disposal area.

Carrying out pneumatic testing and purging as per specifications and approved procedures, providing all tools & tackles, instruments, manpower and other related accessories for carrying out the testing of pipes.

Supply, fabrication & installation of Stone route marker, Pole marker with foundations, Plate markers, valve chamber etc. as per the directions of the EIC / Owner's representative.
Commissioning of gas in the tested PE line shall be done as per the approved procedure.
Restoration of existing ground features such as grass/turfing, paving, roads, drains, concrete, floral beds, fencing, tiles, marbles, flooring masonry etc. to original condition and to match with adjoining conditions, functionally and aesthetically up to the entire satisfaction of Owner / Owner's representative /any other third party agency designated by owner and local authorities, failing which, it will be done at the risk and cost of the contractor. Obtaining No Objection Certificates for the restoration work done from the concerned authorities.
Returning surplus material to Owner stores after obtaining clearance from TPIA/Consultant/ Owner, reconciliation of free issue material/consumables.
Handing over the completed works to owner for their operation/use purposes.
Rectification of defects arising due to poor workmanship during defect liability period of pipelines/installations handed over to Owner.
Preparation and submission of all documents like Pit wise as graph, As-built drawings, details of crossings, utility graphs, PE cards for service line and deviation statements on completion/commissioning of work by way of drawing, sketches and tables in soft & hard copy.
Meter sticker and safety pamphlet Shall be provided by contractor.
Any other activities not mentioned/covered explicitly above, but otherwise required for satisfactory completion/ safety/ statutory/ maintenance of the works shall also be covered under the Scope of work and has to be completed by the Contractor within specified schedule at no extra cost to Owner.

2.0 MATERIAL, MANPOWER, EQUIPMENT AND MACHINERY

Material to be supplied by Owner as Free Issue.
OWNER's SCOPE OF SUPPLY (FREE ISSUE ITEM):

- MDPE Pipes and MDPE Fittings of all diameters from **20 mm to 125 mm**
- **GI Pipe – ½" Only**
- Isolation Valves from **½" and 1" Only/-**
- MLC Pipes
- Gas Meters, Regulators, **DRS, MRS, SR**, and Skid
- Appliance Valves – **½" size Only/-**

Material to be supplied by the contractor:

- Supply and installation of powder-coated GI / MLC fittings and pipe clamps of all sizes.
- Supply and installation of isolation valves above 1" size, and as required at site.
- Supply and installation of GI pipes above ½" up to 2", and as required at site.
- Supply and installation of GI sleeves / half-round concrete sleeves.
- Supply and installation of welded riser – 1" size.
- Supply and installation of CS pipes and fittings as per relevant SOR items.
- Supply and installation of reinforced rubber hose (1 m length) with hose clamps on both sides, including all materials required for natural gas conversion (jets, drilling, etc.).
- Supply and installation of RCC Route marker, Plate Marker, Pole Marker.
- Supply Fabrication and installation of SR box.
- Supply and laying of warning mat.
- Providing and laying PCC, RCC, and execution of all necessary civil works as per relevant SOR items.
- Supply, fabrication, and erection of wire cages for MRS and crash guards for protection.

- Provision of all PPE materials required for safe execution of the project (no extra cost shall be payable by Gasonet).
- Supply of all materials required for PNG industrial and commercial connections, excluding meters, regulators, and 1" isolation valves.
- Supply and Installation of HDPE casing for MDPE pipe protection.
- Supply of all other materials required for smooth execution of the project, over and above those mentioned above.

All materials shall be handled safely and stored in a permanent, covered, lockable store/ ware house preferably near site in such a manner as to prevent any damage to the materials from scratching, gouging, indentation, excessive heat or by contact with any sharp objects or chemicals. The MDPE pipes and fittings shall be stored properly to protect material from sunshine, rain etc.
Contractor's store/ware-house should be located on main road/commercial locations with access to heavy vehicle.
Independent store-keeper with computer, printer & stationaries has to be provided on full time basis in order to maintain ledgers.
Contractor will be responsible for getting the regular audits done with GSL/TPI/Internal/External.

2.1 Backfilling Material
The contractor shall be responsible to arrange the supply of approved coarse sand (size 0.6 - 2 mm as per IS 383) free from any impurities like clay, mica, and soft flaky pieces, as per the instructions of EIC /Owner's representative. For supply of sand in trench for rocky terrain, no separate charges are payable and is included in rates. Also supply of sand in valve chambers, Normal surface & built up surface, if required, as per the instructions of EIC is not separately payable.
In case specified trench, depths are not achieved or if directed by Engineer-In Charge Contractor has to provide concrete casing pipes/ slabs, extra rate of PCC may be payable with prior approval of EIC/TPI.
Other materials: The contractor shall supply the following items wherever required:

- All materials required for framework, trench support and temporary trench Crossings.
- All sign boards, barricades, tin sheets, lighting arrangement and protective equipment.
- All minor items not mentioned in the specification but necessary for the satisfactory completion and performance of the work.
- Material required for installation of valve chambers.
- GI, Half Round Concrete Sleeves. (As per approved Drawing)
- Permanent markers (As per approved Drawing)
- Warning Mat

2.2 Manpower
The contractor shall provide the skilled labour, tools, material and equipment necessary for the proper execution of the work.
Manpower with required tools/tackles and material shall be provided by contractors within scheduled time frame.
2.3 Equipment, Machinery &Tools
This will include but is not limited to the list of specialized items included in Annexure# 1.
All vehicular type machinery shall be in good working order and shall not cause spillage of oil or grease. To avoid damage to paved surfaces, the Contractor will provide pads of timber or thick rubber under the hydraulic feet or outriggers of machinery.
Contractor must also have to arrange his own equipment for restoration work like water tanker and jumping jack compactor for compaction of backfilled trenches and roller and other required equipment/ machinery for asphalting/ road works.

In case there is non-availability of approved equipment's, tools and tackles during the work at site, suitable penalties, as per special terms and conditions of the contract, will be levied and deducted from the running bills.

2.4 Acquisition, Receipt & Storage of Materials

The Contractor shall collect all materials from GSL during stores working hours following all documentation procedures laid down and as directed by the EIC. The Contractor shall carry pipe in such a manner as to preclude damage during transportation and handling. PE pipes supplied in straight lengths may be carried in straight pipe racks.

The contractor shall at the time of receipt of material physically examine all materials and notify the EIC immediately of any damage or defect noticed by the contractor. Any damage not so recorded will be deemed not to have existed at the time of receipt of material by the contractor and the cost of repair or replacement or rectification shall be borne by the contractor. Any material once issued from GSL store, if found in non-working condition at site shall be brought to the notice of EIC with PO reference in written within 15 days and after subsequent approval shall return defective material in GSL stores within 30 days.

If delay is more than 30 days and material is under warranty, the material will be accepted with a penalty, else the material will not be reconciled and amount of the same will be deducted from bills.

The contractor shall ensure that no defective material shall be returned to store at the time of closure of contract. The format for defective materials returning to stores will be made available by EIC.

The contractor shall maintain locked store preferably near at site so that all the materials are stored in such a manner so as to prevent any damage to the materials from scratching, gouging, indentation, excessive heat or by contact with any sharp objects or chemicals. The PE pipes and fittings shall be stored properly to protect material from sunshine, rain, water logging etc. The contractor shall make adequate security arrangements for the stacked material & any loss to the material on account of theft on improper storage is attributable to the contractor.

The Contractor shall maintain log book at their respective stores stating issue and availability of free issue material at a given day. Further, it is mandatory that the contractor is required to undertake and submit inventory details of free issue and purchased materials on monthly basis to Owner/ Owner's representative as per the approved format of the owner. The inventory details shall be in correlation with the Daily progress chart and material reconciliation sheet.

In case if shortage in free issue material is observed at the time of quarterly physical verification by GSL, equivalent value of material found short shall be withheld from running bills, same shall be released after settlement of free issue material.

3.0 PROGRESS OF WORK

The contractor shall proceed with the work under the contract with due expedition and without delay. The EIC may direct in what order and at what time, the various stages or parts of the work under the contract shall be performed. Contractor has to regularly submit daily progress reports, weekly progress reports, graphs with utilities, testing reports, material consumption and inventory reports, deviation statements, completion schedule etc.

4.0 APPROVALS & PERMISSIONS FOR PIPELINE LAYING

Contractor has to obtain permissions from statutory bodies for laying of pipelines. Statutory bodies in this case are MC, PWD, NHAI, CPWD, Indian railways, Forest and any other government agencies who maintain the public lands and accord permissions for laying of the utilities. The contractor shall obtain demand note (road restoration charges) from these statutory bodies. Contractor shall ensure that the road restoration charges are to the minimum against the work to be carried out. GSL may return back the demand note, if the charges are not found reasonable and contractor shall not be liable for any liaison charges against the same.

However, GSL will pay the road restoration / Departmental charges / security deposit / Bank guarantees for getting the clearances from statutory bodies. It is the contractor's responsibility to inform and co-ordinate the concerned local authorities and also other utility agencies before and after the commencement of work at site. To ensure smooth execution of the work on a day-do-day basis, the contractor has to liaison with respective authorities. The contractor shall plan and ensure that work taken up under a single permission shall be completed within the stipulated time period and revalidation process is avoided. No separate liaison charges are liable to GSL for revalidation cases. In case of any deviation/change in the route/additional laying, GSL shall pay the additional Road Restoration Charges only after receiving of revised estimate and further to written confirmation from the concerned Owner site in charge.

5.0 REFERENCE SPECIFICATION, CODES AND STANDARD

The contractor shall carry out the work in accordance with the requirement of latest relevant applicable standards, this specification, Owner's Engineering Standards; relevant Oil Indian Safety Directorate (OISD) norms, PNGRB Regulations, ASME B31.8-Gas Transmission and Distribution Piping Systems; Australian Standard 3723-Installation and Maintenance of Plastics Pipe Systems for Gas; and the American Gas Association Document - Purging Principles and Practice. IS0-4437/JS: 14885 for underground polyethylene pipes and OWNER’s approved procedures.

Should the contractor find any discrepancy, ambiguity or conflict in or between any of the standards and the contract documents, then this should be promptly referred to the Engineer-In-Charge (EIC) for his decision, which shall be considered binding on the contractor.

6.0 QUALITY OF WORK

All works carried out under this contract shall confirm to applicable standards, codes of practice, construction procedures and other technical requirements as defined in the technical specifications.

The manpower deployed on the respective activities shall be adequately trained & shall have necessary skills to execute / supervise the work. However, the assessment on the qualification of the personnel shall be at the discretion of EIC.

Fusion operators and other skilled personnel shall be approved by Owner/ Owner’s representative based on the test conducted at site and identification cards duly signed by GSL Sit In-charge shall be issued to them. Only those personnel who are approved by shall be allowed to execute the critical activities like electro fusion jointing of MDPE pipes & fittings.

7.0 SAFETY

The Contractor shall conform to the safety requirements outlined elsewhere in the tender document. In addition, the Contractor shall observe safe working practices in the storage and handling of cleaning fluids, flammable fluids, etc., and ensure smoking or naked flames are not permitted in the vicinity when these materials are being used.

Trench walls shall be battered with sufficient slope in order to minimize a trench collapse. Where there is a danger of an earth slide or collapse, the trench shall remain open for the minimum time possible with proper barricading. The Contractor is to ensure that no person enters a trench, which is of a depth of 1.5 meters or greater, unless the trench has adequate shoring or the sides are battered to such an extent as to prevent a trench collapse.

The Contractor shall also protect all work sites with warning signs, barricades and night lighting. The Contractor shall inspect all fenced excavations daily, and maintain them in good order.

The trenches/ pits shall not be kept open in night times. However, in case the same is essential the same shall be properly barricaded with proper lighting arrangements & manned.

The Contractor shall provide PPE's like helmets, safety shoes, etc. to the labour which are necessary for safe working practice.

Any accident causing injury to any person or damage to property or equipment shall be reported to the EIC and the cost of repair / replacement of the damage equipment shall be borne by the contractor.

Where the EIC determines that the work is being performed by the Contractor in an unsafe manner, he may suspend the Work until corrective action is taken by the Contractor.
PPE, Continuous Barricades and caution tapes along the trenches as per approved drawing in tender, Use of Safety Boots, Hand gloves, Reflective jackets, Hard hats(helmets), Safety shoes, eye and ear safety equipment, Fire extinguishers and as per the detailed scope of work in tender specifications.

8. 0 ROUTE SURVEY

Planning, detailing the size, route survey drawings, identification of underground utilities, foreign pipelines, crossings, and location of valve chamber, DRS, MRS as well as service line location is in scope of contractor and as directed by EIC.

8.1 Mainlines

The final alignment of mainlines will be worked out at site the Owner/Owner's representatives after route survey and trial pits, at contractor cost. Any change in routing from the issued drawings due to site constraint will be notified to EIC & his specific written approval shall be obtained before carrying out the job.

8.2 Service lines

EIC/ Third Party Inspection Agency and the contractor will conduct a joint survey at each probable premise/ housing colony/pockets/area to be supplied with gas. The survey record will note customer's detailed potential gas supply points, proposed regulator positions and estimates of material quantities. The contractor's representatives will make sketch of the agreed pipe routes.
The contractor will be responsible for contacting the customer and making the necessary arrangements for access and appointments to carry out the work. Contractor shall maintain job card at site. Owner will not be responsible for time lost due to failed appointments or disputes with customers.

9.0 <u>ORGANISATION STRUCTURE</u>

Contractor shall designate Project Manager/ Coordinator who will be responsible to interact with EIC/Consultant/TPIA and authorized to attend review meetings, receive material, authorized to sign documents, claims and receive payments etc. Contractor shall employ a Project Manager Coordinator on company roll. Project manager / coordinator & Site Engineers on company roll. The Project Manager/ Coordinator must have qualification of BE Mech. /Diploma in Mech. Engg. With min. 2-5 years & Site Engineer must have minimum Diploma in Mechanical Engineering with 3 years of work experience in gas pipe line job. He shall be single point of contact for all the works and must represent company in the review meetings.
All construction work will be carried out as per direction of EIC, and this will be the primary point of contact between the contractor and Owner on site. All work will be issued and sanctioned through the EIC and site control exercised by Site Engineers. The contractor shall ensure that technical quality standards are maintained, that construction is carried out cost effectively and that a good customer and public image is maintained for Owner.
The contractor will deploy his own supervisors as directed by site engineers/EIC. These personnel will be reporting to the Site Engineer for monitoring construction standards and for ensuring that all technical requirements are met for the job being carried out. The contractor's supervisor(s) will have day-to-day liaison with the Site Engineer, and will provide the Site Engineer with technical reports and audits, and other management information as is required on work progress and construction quality standards.
The contractor's supervisor shall have mobile telephones to ensure that they can be contacted at all times. The contractor will also nominate one person who can be contacted if necessary in odd hours, for the duration of the works. The contractor's supervisor will have access to transport at all times to allow them to visit sites and attend meetings with Owner. Supervisor shall attend to normal day-to-day issue of work instructions, communication between Owner / Owner’s representative and the contractor's supervisor.

Contractor shall maintain a Customer Care Centre, Project Site Office, and Material Store in their allotted site with following facilities:

- Telephone, Mobile Phones, Printers/Scanning/Xerox machines, Computers with internet facility.
- One Nos. -Four-wheeler with driver, he shall be well equipped with tools and tackles for attending any emergency complaints and ongoing execution work.
- On award of the contract, the contractor shall establish and submit documentary evidence for above, which will be verified by the owner before award of the work order.

10.0 STRUCTURES, SERVICES AND OTHER PROPERTY

10.1 Location of Underground Utilities

The contractor shall locate all buried utility pipes, underground cables, water mains and other obstructions intersecting or adjacent to the Works, and shall make available the necessary labour to expose and record the depth of cover over all obstructions in advance of excavation. This shall be done far enough in advance of excavation to facilitate gradual change in grade or position found necessary to clear any obstructions.

In addition, the contractor shall excavate trial pits as necessary to determine the pipe route. The number of trial pits will be agreed with the Site Engineer in advance of any excavation. In any event, trial pits shall be made at intervals of a maximum of 30 meters. Restoration of the abandoned trial pits and trenches shall be the contractor's responsibility and contractor shall ensure all open pit/ trench shall be back filled/ levelled/ restoration of pits at the time of day closing (end of day). No payments shall be made for such type of jobs. The trial pits shall be excavated to minimum depth of 1.5 meters so as to locate any utilities present in the trench.

It is contractor's responsibility to interact with other utility agencies regarding their existing utilities and finalize the route along with these agencies and Owner/ Owner's representative.

There will be no additional payments in respect of abandoned trenches incurred because of insufficient or inadequate trial pits, or any associated loss of time or delays.

Contractor must ensure that before starting the execution of lying of pipeline, the intimation/information must cascade to all utilities agencies seeking the information about the existing utility in the proposed route.

10.2 Protection of Structures and Utilities

The Contractor shall at his own cost support and protect all buildings, walls, fences or other structures and all utilities e.g. Electrical cables, Telephone Cables, Water pipelines, Sewer pipelines etc., and property which may be damaged as a result of the execution of the works. He shall also comply with the requirements in the specification relating to protective measures applicable to particular operations or kind of work. Special care shall be taken while laying of pipelines near the trees.

10.3 Interference with Traffic, Street Drainage and General Public

The Work shall be executed in such a manner so as to cause a minimum inconvenience to persons using public or private roads, lanes, thoroughfares, walkways, rights-of use or passages through which the Works are to be executed. The trench shall be back filled; compacted, leveled and extra soil shall be removed immediately after laying of pipeline to avoid public inconvenience. Closure of roads, etc., shall not be permitted without the approval of the EIC.

The Contractor shall comply with all local Authorities requirements to traffic and keep roads open to traffic and maintain access to and within any private property.

Wherever the pipe route crosses driveways, access tracks or entrances to private properties the Contractor shall give the owner, occupier or relevant authority at least 24 hours prior notice of intended commencement of excavation and shall be restricted to pass through.

The Contractor shall not use a private driveway, access track or entrance without the prior approval of the EIC in any circumstance.

The Contractor shall handover the completed works after proper cleaning of the site.

11.0 TRENCHING

The schematic drawing with the details of trench is enclosed in the tender as per drawing.

The Contractor shall perform the excavation works so as to enable the pipe to be laid in conformity with the levels, depths, slopes, curves, dimensions and instructions shown in the Drawings, Specifications or as otherwise directed by the EIC.

While trenching, care shall be taken to ensure that all underground structures and utilities are disturbed to the minimum. Suitable crossing shall be provided and maintained over the ROU wherever necessary to permit general public, property owners or his tenants to cross or move stock or equipment from side of the trench or another.

Trenching shall be made with sufficient slopes on sides in order to minimize collapsing of the trench. On slopes wherever there is danger of landslides, the pipeline trench shall be maintained open only for the time strictly necessary. Owner may require excavation by hand, local route and detouring and limiting the period of executing of the works. Before trench cuts through water table, proper drainage shall be ensured, both near the ditch and ROU in order to guarantee the soil stability.

The Contractor shall ensure that trench bottom is maintained in the square form as far as possible, with equipment, so as to avoid/minimize the hand grading at the bottom of the trench. The Contractor shall do all such handwork in the trench as required to free the bottom of trench from loose rock, pebbles and to trim protruding roots the bottom and sidewalls of the trench.

Excavation in Hard Rock Strata/ Boulder:

Hard/ Boulder rock is defined as trench material with a single piece of rock, dimension exceeding 2.0 Mtr. in any direction, which requires cutting only by use of chisel/pneumatic chisel/drill or sledge hammer or removal of the same by additional excavation technique approved by EIC. Additional rates shall be payable for hard rock/ boulder excavation as per the item SOR and above the pipeline laying rates. Excavation through soil mixed with small boulders that have been used for a road base will not be considered as hard rock for the purpose of payment.

11.1 Depth of Trench

The minimum depth of cover shall be measured from top of pipe to the top of undisturbed surface of the soil or top of the graded working strip or top of road or top of rail, whichever is lower.

In case of crossing of water bodies, the minimum depth shall be measured from the top of the pipe to the bottom of Scour level.

The depth of the trench will be such as to provide minimum cover as stipulated below:

For Distribution and service lines

Minor Water Crossing/Canal	1.5 Meter
Uncased/Cased Road Crossing	1.2 Meter
Rail/Road Cased Crossing	1.7 Meter
Normal Areas	1.0 Meter

The minimum depth may be greater than as mentioned above as may be required by Government/Public authorities under jurisdictions. The Contractor shall perform such work without extra compensation, according to the requirement of concerned authorities.

Also, in case of Drains/Culverts/Utilities crossing through open cut where excavation cut is more than 1.5m, the extra excavation is inclusive in the laying rates. No separate payment is chargeable for extra excavation and includes backfilling as well.

11.2 Width of Trench

The width of the trench shall be wide enough to provide bedding around the pipe as specified and to prevent damage to the pipe inside the trench. Unless otherwise directed by the EIC and where ground conditions permit, the minimum distance from the inside edge of the trench wall to the outside of the pipe shall be as per the Drawing.

11.3 Trench Base

The trench bottom shall be cut or trimmed to provide a uniform bedding for the pipe and shall be free from stones, metal, wood, vegetation, clods of earth or other debris before placement of the pipe.

In case trenching is done in rocky terrain, a bedding of soft soil or sand shall be provided in the trench base at no extra cost to the satisfaction of EIC.

11.4 Malba

Accumulation of construction debris/building rubbish or discarded pieces of bricks/stones or excavation through soil mixed with small boulders/powdered rock due to which moiling is not possible and only open cut method can be used.

11.5 Clearances

Unless otherwise approved, the following clearances shall be maintained between the external wall of the gas pipe and the external surface of other underground assets/utilities in the vicinity of the Works.

150 - 300 mm where the gas pipe crosses other assets/utilities, etc., for electric cables, the clearance shall be 300mm minimum or special protection shall be provided as per approval of EIC and T4s Guidelines.

300mm where the gas pipe is on a similar alignment to the other assets/utilities. Where the above clearances cannot be achieved, or in other special circumstances, the EIC may approve/specify protection with concrete/MS coated pipe, etc. The protective material shall be supplied and installed by the Contractor at his cost subject to discretion of EIC.

11.6 Under Ground Interferences

The Contractor shall locate and expose manually all underground facilities if any during trenching. Safety barriers shall be erected along the trench to prevent any damages or accident. On locations where pipeline is laid under the existing facilities and near the approaches of the crossing, the trench shall be gradually deepened to avoid sharp bends.

All sewers, drains, ditches and other natural waterways encountered while trenching shall be maintained open and functional by providing proper temporary installations if required. Suitable dewatering pumps shall be deployed to dewater, if required.

In case of damage to any of above referred structures/utilities the Contractor shall be responsible for repairs/replacement at his own cost, which shall be carried out to the satisfaction of concerned authorities, resident and Owner.

11.7 Others

Throughout the period of execution of such work, the Contractor shall provide and use warning signs, traffic lights or lanterns, barricades, fencing, watchman etc. As required by the local authorities' jurisdiction and/or Owner.

For all roads, paths, walkways etc. which are open-cut, the Contractor shall provide temporary diversions properly constructed to allow the passage of normal traffic with the minimum inconvenience and interruptions.

The paving shall be resorted to its original condition after the pipeline is installed.

Where the pipeline crosses underground utilities/structures, Contractor shall first manually excavate to a depth and in such a manner that the utilities/structures are located, then proceed with the conventional methods.

11.8 Bedding

The Contractor shall ensure that the pipe when placed in the trench is supported and surrounded by a bed of screened excavated soil, which shall be stone free and have a maximum grit size of 5mm, in order to ensure no damage occurs to the pipe. However, in case of rocky soil the bedding shall be done with approved good quality packing sand subject to the approval of the Site Engineer. The packing sand shall be placed to a minimum thickness of 150mm around the pipe in case of rocky terrain.

12.0 LAYING

12.1 Main line

Laying of MDPE pipelines shall be commenced only after ensuring proper dimensions and clean surface of the trench. The trench bottom shall be free from the presence of cuts, stones, roots, debris, stakes, rock projections up to 150 mm below underside of pipe and any other material, which could lead of perforation/tearing of the pipe wall. After ensuring above, the MDPE pipe coil shall be

uncoiled smoothly through proper equipment's/care before laying pipe inside the trench ensuring no damage to pipe.

The contractor must ensure that Pipe caps are provided before lowering of Pipeline. The trench after this can be released for back filling leaving adequate lengths open at the ends for jointing.

Contractors shall ensure open ends of pipe placed in the trench shall be securely capped or plugged to prevent the ingress of water or other matter. The Contractor is to ensure that nothing enters inside the pipe during the laying process as this could cause a future blockage or regulator malfunction due to dust, etc.

Valves shall be installed at locations shown in the Design Plan or as directed by the EIC and joined with PE pipes by electro fusion techniques. The valves shall be placed on a concrete square block at the bottom to achieve equivalent support of the incoming and outgoing pipe.

Laying graphs/As-graphs with details of depth, length, offsets from minimum three (03) fixed different references, other utility crossings, fittings, sizes of the casing pipe used for the pipeline shall be prepared on daily basis and to be submitted to GSL representative/ EIC for approval. These details will further be incorporated in to As-Built Drawings.

Pipe may pass through an open drain or nallah with prior approval from EIC. Where this is permitted, the PE pipe shall be installed inside a concrete or steel sleeve for protection with no cost implications to the owner. The sleeve material shall be procured and laid by the Contractor with prior inspection and approval of the EIC for the quality of material. In general, the GI Sleeve material specification shall be confirming to IS 1239 (Heavy Duty) specification of reputed make; cost of GI sleeve shall be included in laying SOR.

In case of service lines, Site In-charge shall decide either half round concrete sleeve or GI pipe sleeve shall be installed at any particular site depending upon site condition. The half round concrete sleeve shall be preferred over GI Sleeve, however in case where the installation of half round Concrete Sleeve is not possible due to technical feasibility and site conditions, GI sleeves shall be installed only after written approval from GSL Site In charge. The rate of GI Sleeve / half round concrete sleeve shall be included in laying of 20/32 mm dia.

12.2 GI Sleeve

The contractor shall supply the minimum dia. Size of 2.5" & 3", 300 mm in length, GI sleeves (Heavy Duty reputed make) respectively for domestic & commercial / industrial installations. The material shall be inspected by TPIA / Consultant before installation. The material test certificates/ inspection reports shall be submitted at the time of submission of bill.

The installation of GI sleeve for service lines shall be done by sealing the annulus between pipe and sleeve, firm fixing of the GI sleeves by concrete mix pedestal, clamping, sand filling, etc.

12.3 Half Round Concrete Sleeve

The Supply and Installation of Half Round Concrete sleeve for service lines shall be done by sealing the annulus between pipe and sleeve, firm fixing of the Concrete sleeves by concrete mix pedestal, clamping, sand filling, etc. Half round concrete sleeve shall be made as per attached drawing or as per instruction of Site In-charge. The dimensions shown are tentative and may vary depending upon the site conditions. The material shall be inspected by TPIA / Consultant at the fabrication stage & prior to final dispatch at site for installation.

12.4 Crash Guard

The Supply and Installation of pre-cast RCC crash guard over half round concrete sleeve/ pedestal shall be done by installing it resting on wall of building by fixing it with grouting nut and bolts in wall that may be detached during the event of leakage/testing. The material shall be inspected by

TPIA / Consultant at the fabrication stage & prior to final dispatch at site for installation. The material test certificates/ inspection reports shall be submitted at the time of submission of bill.

12.5 LAYING OF SERVICE LINE IN OLD PROJECT AREA:

Old/ O&M area shall be defined as those areas where PE line is already charged and handed over to owner. or Old Project area shall be defined as an area where MDPE line is already been laid by another contractor (currently not working in respective zone), only service line connectivity shall be done by the contractor. Laying of pipeline (for 20 & 32mm) in all type of surface i.e. all kinds including Kutcha, metal, concrete (PCC/RCC), bituminous, tiled, brick lined etc. after racking up of hard surface of any type by any methodology. Roads, Pavement, Footpaths etc. shall be made motor able once the pipeline is laid. Supply & installation of GI Sleeve / Half round Concrete sleeve shall be included in laying rates. Wherever service lines are to be laid after dismantling nallah / drain, no additional cost for dismantling and repairing shall be payable.

13.0 Jointing of Polyethylene Pipe

The procedure for jointing of PE pipe and fittings machines as per Specification for ELECTROFUSION FOR PE PIPES AND FITTINGS. Only Bar coded into electro-fusion machine (Automatically Readable) that can read the bar code of the fittings automatically shall be used for joining of the MDPE pipes/fittings. Manual feeding Electro-fusion machines are not acceptable for jointing purpose. The contractor has to submit the certificate of calibration of Fusion machine at the time of start of work and must attach in RA Bill at fixed intervals. Contractor shall ensure that the machines are always available at site.

The contractor shall flush the Pipeline with air to remove dust, water, mud etc. before fusing the joints. Before jointing, the Contractor shall place packing sand under the pipes on both sides of the joint to keep the pipes in line and at the correct alignment during the jointing process. The jointing process shall start only after Alignment clamps with the correct size are aligned with the pipe and coupler during the electro-fusion cycle.

The Contractor shall ensure that polyethylene pipe is only cut with an approved plastic pipe-cutting tool (Rotary Cutter up to 63mm/Guillotine Cutter for 63mm and above). Before fusion is attempted, the contractor shall remove the oxidized surface of the pipe using Universal Scrapper up to 63mm/Rotary Peeler for 63 mm and above before inserting into the electro-fusion coupler. The tool must remove a layer of 0.1mm to 0.4mm from the outer surface of the polyethylene pipe. No fusion will be allowed without clamping device and the approved cutting tools (Hack saw shall not be allowed for cutting the pipe).

The contractor has to supply all the consumables required for carrying fusion of the joints (like tissue paper, napkin, acetone etc.).

If, upon inspection, the EIC determines a joint is defective, Contractor shall remove the joint by an approved method. The cost of replacing joint shall be borne by the Contractor including the cost of pipe and fittings removed.

For electro-fusion joining, the contractor must bring own tools, tackles and equipment's. Only, approved Jointers shall carry out fusion of all joints. Contractors shall provide the list of jointers to be used on the job and make arrangements for Qualification Testing of the jointers in presence of Owner / Owner's representative as per the standard procedures. All approved Jointers shall bear identity cards signed by Owner / Owner's representative during fusion job and shall furnish the same on demand by Owner / Owner's representative. Applicable penalties shall be levied, in case; it is

found that fusion is being carried by non-qualified jointers as per the provisions made in Special Conditions of the Contract.

Contractor shall arrange generator along with voltage stabilizer for power supply to fusion machine. Taking power connection form electric poles, connections without written permission from the concerned authorities or residential premises is strictly not permitted.

14.0 BACKFILLING

Backfilling shall be done after ensuring that appurtenance have been properly fitted and the pipe is following the trench profile at the required depth that will provide the required cover and has a bed which is free of extraneous material and which allows the pipe to rest smoothly and evenly. Dewatering shall be carried out prior to backfilling. No backfilling shall be allowed if the trench is not completely dewatered.

Prior to backfilling it should be ensured that the post padding of compacted thickness 150 mm is put over and around the pipe immediately after lowering where required.

Backfilling shall be carried out immediately after the post padding where required has been completed in the trench, inspected and approved by Owner/ Owner's representative, so as to provide a natural anchorage for the pipe avoiding sliding down of trench sides and pipe moment in the trench. If immediate backfilling is not possible, a padding of at least 300mm of earth, free of rock and hard lumps shall be placed over and around the pipe and coating.

The backfill material shall contain no extraneous material and/or hard lumps of soil, which could damage the pipe and/or coating or leave voids in the backfilled trench. In case, it is required and directed by EIC screening of the backfill material shall be carried out with specified equipment before backfilling the trench.

The surplus material shall be neatly crowned directly over the trench and the adjacent excavated areas on both sides of the trench to such a height which will, in Owner/Owner's representative opinion of provide adequately for future settlement of the trench backfill during the maintenance period and thereafter. The down shall be high enough to prevent the formation of the depression in the soil when backfill has settled into its permanent position should depression occur after backfill, Contractor shall be responsible for remedial work at no extra cost to Company. Surplus material, including rock left from this operation shall be disposed of to the satisfaction of landowner or authority having jurisdiction at no extra cost to Owner.

Where rock, gravel, lumps of hard soil or like materials are encountered at the time of trench excavation, sufficient earth, sand or select backfill materials shall be placed around and over the pipe to form a protective cushion extending at least to a height of 150 mm above/ below the top of the pipe. Select backfill materials for padding that area acceptable shall be soil, sand, clay or other material containing no gravel, required selected backfill material has been placed, provided the rock or lumps of hard soil. The padding earth shall not contain any stones, i.e. the earth shall be screened for sand padding of the Pipeline in order to avoid damage to the pipeline. Contractor shall carry out all these works at no extra cost to Owner. Loose rock may be returned to the trench after the required selected backfill material has been placed, provided the rock placed in the ditch will not interfere with the use of the land by landowner, or tenant.

In case where hard rock is encountered or as desired by EIC / site engineer sand padding is to be provided up to height of 150 mm around the pipe.

When the trench has been dug through driveways or roads, all backfilling shall be executed with sand/suitable material in layers as approved by Owner /Owner's representative and shall be thoroughly compacted. Special compaction methods as specified may be adopted. All costs incurred there upon shall be borne by the Contractor. Trenches excavated in dikes which are the properties of railways or which are parts of main roads shall be graded and backfilled in their original profile and condition. If necessary, new and/or special backfill materials shall be supplied and worked-up to.

PE Warning Mat shall be placed on distribution main and service line inside premises, after backfill of the trench up to a height of 300mm on the top of the carrier pipes. The warning grid is to be unrolled centrally over the pipe section and thereafter further backfilling will commence.

Backfilling activity shall include proper compaction by jumping jack compactor, wherever required and as per instruction of EIC, and watering in layers of 150mm above the warning mat. Proper crowning of not more than 150mm shall be done. All the excavated material that could be used during the Restoration process shall be stacked and kept separately and properly. Wherever Road cutting/Tiles removal/PCC cutting has been done during excavation for laying, the area shall be back filled and compacted immediately so that no inconvenience is caused to the general public.

Electro-fusion of joints is to be undertaken immediately after lowering and the activity shall not be kept pending for lack of Electro-fusion jointing. The backfilling shall be considered complete only after the jointing of pipes.

Debris and other surplus material shall be removed immediately after the back filling.

15.0 MOLING

The Manual Moling shall be carried out as per the requirement specified by Owner / Owner's representative and approved procedures. The contractor has to carry out survey of the underground utilities before going for the Moling to avoid any damage to other utilities. No extra payment will be made for any trial/abandoned pits made during the survey. The supply of all equipment required for carrying out moling work is in contractor's scope. The type of moling to be carried out i.e. with or without casing shall be at the discretion of Owner and prior approval is to be taken before starting the Moling.

For Moling the contractor shall ensure that the size of the hole shall not be more than 20% of the size of the casing/carrier pipes whichever is applicable. After completion of Moling the hole shall be properly compacted / filled with soil by watering and by approved procedures.

The length of the Hole (excluding the sizes of the pits on both ends) shall be considered for the measurement of Moling length. However, the extra length of casing shall be considered for material consumption purpose only. In case of moling, where partial laying is carried out in casing and rest without casing. Further, the payment for the pipeline laying in the excavated pits for Moling purpose will be made as per the SOR for normal laying.

Any damage occurred to other utilities during the moling operation shall be immediately, notified and rectified by the contractor without any cost implication to owner.

16.0 HORIZONTAL DIRECTIONAL DRILLING (HDD)

HDD is required to be carried out by the Contractor where conventional Trenching/Moling is not possible viz. Railways, major waterways, highways, roads, congested areas etc. The Contractor shall

obtain details of such crossings and the Contractor in consultation with Owner shall prepare construction drawings. Execution of the work shall be based on the Owner / Owner's representative approved drawings. The contractor has to do the thorough survey of the underground utilities before commencement of HDD to avoid the damage to the other utilities. No other extra payment will be made for any trail/abandoned pits made during the survey. The supply of all equipment required for carrying out the HDD is in contractor's scope. The HDD operation shall be carried out in accordance with API-1102. The type and availability of machines is sole responsibility of the contractor and as per the site conditions & requirements to entire satisfaction of EIC.

Once the work is allotted, any delay in mobilizing / non-availability of HDD machines as per site requirement and conditions shall result in levying of suitable penalties. However, in such cases, owner shall mobilize HDD machines and carry out execution of work on the contractor's risk and cost as per requirement.

The type of HDD to be carried out with or without casing shall be at the discretion of Owner and prior approval is to be taken before starting the HDD.

The rates for HDD, as indicated in SOR item, as applicable on the site conditions, are payable as per the size of the carrier pipe and inclusive of excavation of pits, jointing, pilot boring, bentonite cleaning, reaming, insertion of carrier pipe, backfilling, compaction, etc.

Any damages occurred to other utilities during the HDD operation shall be immediately notified and rectified by the contractor without any cost implication to OWNER.

The measurement for the payment shall be measured as per the span for which the beacon/sensing source which is attached to the reamer at the time of pulling carrier pipe for HDD. HDD profiles should be properly marked in the as built drawing in scale.

17.0 CASING PIPE

The tentative sizes of the HDPE casing pipe for Moling/Horizontal Directional Drilling shall be as follows:

S. No.	MDPE Carrier Pipe Dia. size (mm)	Min. Dia. of HDPE Casing Pipe (mm)	Max. Dia. of HDPE Casing Pipe (mm)
1	32	50	90
2	63	125	160
3	90	150	200
4	125	200	250

However, the size of the casing pipe may vary according to the length of the carrier pipe and requirement of laying of HDPE duct & OFC cable, if required. Also, the higher size of HDPE casing pipe shall be preferred over lower size casing pipe without any extra cost to the Owner and shall be supplied by the Bidder.

18.0 RESTORATION

Wherever the restoration to the original surface condition is in the scope of Owner or as directed by EIC, all roads, footpaths (including roads and footpaths inside colonies) shall be restored to its original condition and the same shall be done as per CPWD/IRC norms and to the satisfaction of the

concerned local Authority/Third Party Agencies designated by Owner. To retard curing of the installed concrete, wet sackcloth is to be placed on the finished surface and kept damp for a period of 7 days.

Where slabs and blocks are to be restored, the level of the compacted sub-base is to be adjusted according to the slab/block thickness. The slabs or blocks should be laid on moist bedding material, which should be graded sand, mortar or mortar mix. The slabs or blocks should be tapped into position to ensure they do not rock after lying.

The restored slabs or blocks should match the surrounding surface levels. Joint widths should match the existing conditions, and be filled with a dry or wet mix of mortar.

The procedure for restoration of Road/Footpath is just indicative. However, the restoration shall be done in accordance with the norms of the concerned Land owning agencies.
The Contractor is to ensure the restoration work is properly supervised and that the material used is suitable for the purpose and properly compacted. Where the required standards are not achieved, the Contractor will be required to restore the defective work.

Where permanent surface restoration cannot be completed immediately, the Contractor shall provide and maintain a suitable temporary running surface for vehicular traffic and pedestrians. The Contractor will be responsible for the maintenance of all restoration carried out, for the duration.

The Contractor is to ensure the restoration work is properly supervised and that the material used is suitable for the purpose and properly compacted. Where the required standards are not achieved, the Contractor will be required to restore the defective work.

Payment to the restoration shall be paid as per SOR item . Further, the rate of restoration includes WBM, Asphalted /Bituminous, concrete pavement, Agra Stone/ Kota stone/ Tiles (Chequered / any other type of tiles), interlocking paver blocks, Dry brick pavements etc. and payable under relevant SOR.

Note that payment for restoration will be released only after satisfactory completion and certification by Third party/Consultant.
Contractor has to obtain the No Objection Certificate (NOC) from the concerned local authorities/RWA after completion of the restoration work.

19.0 TESTING

Pressure testing will be carried out with compressed air/ nitrogen (free from oil and greases). Compressed air/ nitrogen will be provided by Contractor for testing purposes and is to be included in the laying rates.

For main pipeline laying, the Contractor shall perform progressive pressure testing to ensure no leaks in long lengths of pipe. The test pressure shall be 1.5 times of the operation pressure, and there shall be no unaccountable pressure loss during the test period.

Overall scheme drawing for pressure testing shall be prepared by the contractor and get approval from Owner/Owner representative.

For main line the test duration shall be minimum 24 hours for length greater than 1 km and minimum 4 hours for length shorter than 1 km. The pressure should be allowed to stabilize for a period of 30 minutes after pressurization. The holding period may then commence and continue for time period

as specified above. Measuring instruments shall have been calibrated and their accuracy and sensitivity confirmed. For testing of Network, calibrated pressure gauges of suitable range shall be supplied by the contractor. The pressure gauges shall be calibrated from time to time as desired by EIC. All testing shall be witnessed and approved by the EIC or his delegated representative. Tie-in joints may be tested at working pressure following commissioning.

Suitable relief valve set at 5% higher than test pressure shall be fitted at the test heads to avoid over pressurization during testing.

20.0 PURGING

Purging shall be carried out in accordance with the principles defined in the American Gas Association publication "Purging Principles and Practice".
The Contractor shall also provide nitrogen required for purging as per the direction of Site In-charge. Nitrogen shall be supplied in labeled, tested and certified cylinders and completed with all necessary regulators, hoses and connections, which will be in good and working condition. No separate payment shall be paid for supplying Nitrogen cylinders for purging and is included in the laying rates. Before purging cylinder should be checked for containing Nitrogen only.
In addition, the Contractor shall submit purging plan and get approval from Owner / Owner representative before commencing any purging work. The Plan shall include, but not be limited to the provision of the following materials and equipment: Personal Safety Equipment, Fire Extinguisher, Purging Adaptor, Purge stack with flame trap and gas sampling point, Gas sampling equipment (may be gas leak detector), squash-off tool, Polyethylene connecting pipe.
The Plan shall also include the purging process along with detail on the sequence of events. The process is to also specifically mention the need to lay a wet cloth over the PE main and in contact with the ground, to disperse static electricity during the purging work.

21.0 VALVE PITS

Valve pits (RCC/Brick Wall) shall be constructed as per enclosed Tender drawing in the document. The construction of the valve chambers shall be taken up immediately after installation of valve.
RCC Pre-Cast Slab shall conform to IS: 456. Heavy Duty RCC Manhole Cover shall be used. It shall be with raised with Lifting hooks. The RCC manhole cover shall have a clear opening as per the Construction Drawings issued to the contractor.

22.0 Workmanship

The excavation work shall be done at a location given by Engineer-in-Charge. All care shall be taken not to damage existing facilities and surface of construction shall be restored to its original state.
Sand bags to be placed below pipeline without disturbing the laid pipe. Gunny bags and Sand should be of approved quality.
Valve will be supplied without the operating stem. Approved quality sand is to be placed in between area. The supply of sand is included in the rates.

23.0 ROUTE MARKERS

Route Markers shall be fabricated, supplied and installed on the ROU at regular intervals immediately after laying of the Pipeline. The installation of the type of the Permanent Marker shall be decided by the EIC depending on the site condition. The contractor shall also ensure that a sample of all type of markers shall be inspected and approved by Owner / Owner representative before shipment of the lot at site and prior to installation at the site. The inspection of all types of markers shall be carried out lot wise.

The Stone Markers shall be painted before installation as per the drawing. Whereas the Pole marker (Markers with foundation) & plate marker are to be supplied with powder coated Golden Yellow Paint The supply of the paint as per drawing and application. The supply of paint and application as per the specification is in contractor's scope. Payment shall be paid as per relevant SOR item. Contractor shall obtain the approval lot wise & before installation at site from the Owner / TPIA.
The installation of these markers shall be such that in between two pole markers two Stone markers are installed with spacing of 50 mtrs on either side and directed by EIC.
Interval between any two Stone Route markers for mainline (180mm to 63mm) shall not be more than 50m.
A Pole marker shall be installed near to valve chambers on Mainline & inside the pockets respectively for indication.
For the distribution network 32mm & 20mm pipe, Route/ Stone / plate markers shall be installed as per the site conditions and directions of the Site-in-Charge.

24.0 ASSISTANCE IN COMMISSIONING

Contractor shall provide the required personnel, labour, supervision, tools, equipment, instruments and technical assistance for performance tests and commissioning activities as per requirement / satisfaction of Owner /Owner's representative.

25.0 STANDARD OF WORK

All work carried out under this contract shall be to standards, codes of practice construction procedures and other technical requirements as defined in the technical specifications. The manpower deployed on the respective work shall be adequately trained and shall have necessary skills to execute/supervise the work. However, the assessment on the qualification of the personal shall be at the discretion of EIC.
Fusion Operators and other skilled personnel like plumbers, conversion techniques shall be approved by Consultant/ Owner. Simultaneously Identification Cards duly signed by Consultant/ Owner shall be issued to them. The contractor shall maintain proper record for the identification cards issued to their workers.

26.0 RECORDING (AS-BUILT DRAWINGS)

The following points shall be taken care to the preparation of as built drawings.

- The as built drawings should be in the scale of 1:200 and shall be submitted in an A-0 sheet. The drawings shall be in layers according the AUTOCAD features category.
- Pipeline feature shall be shown as a continuous line, breaks only at joints, fittings, valves, tee point, etc. Diameter, Pipe material, length, and location of pipeline whether on the road or footpath, should be clearly indicated.
- Minimum three (03) offsets of every joint, from permanent structure shall be recorded on As Built.
- Distance of pipeline from permanent property/structure should be provided at least every 20 mtrs. If there is any change in alignment / orientation and offset distances etc. Of the pipeline in between the above said 20 mtrs, the same shall be dearly mentioned in the as laid. Gas objects (off valves, tees, elbows, couplers, transition fittings etc.,) shall be shown as block objects (which form a single node to connect) with respect to Owner symbols / legend. The As laid drawings shall be as per the approved legends provided by EIC.
- Details & offset distances from other utilities present (e.g. Water line / OFC cable/ electrical cable etc.) should be given in as laid drawing. If there is any change in depth of the pipeline, the same shall be clearly marked with details in the as laid drawings. The details (material, size &.Length) of additional protection provided to pipeline shall also be clearly indicated.

- Details of the PE stop off valves &. Other fittings used (i.e. tees, elbows, couplers, transition fittings, etc.) should be shown with adequate information orientation &. Offsets/ coordinator from permanent structures in the immediate vicinity.
- Technical deviations (if any) should be provided with reference to the buildings permanent structures around, and the same should be cited clearly with all the relevant details, including separate sketches/Blowups / sectioned drawings / exploded view.
- Total as laid-length (size wise), bill of materials should be mentioned in each sheet.
- Complete details of nallah crossings should be shown in a separate sketch.
- Names of roads, major landmarks and buildings should be mentioned appropriately for reference.
- Proper chainage shall be mentioned on all the drawings to be referred with continuation reference.
- Direction of gas flow shall be indicated in each of the drawings.
- Text on the as laid drawing should be clearly visible.
- Land base features shown on the drawing shall match the exact distance as they were on real ground with respect to scale (1:200).
- As built drawings shall be duly signed & stamped by area TPIA / Consultant.
- The details shall be prepared in standard format using MAP INFO/AUTOCAD MAP and submitted. Contractor shall also make the item wise material consumption report for the respective areas in a soft copy and to be submitted along with the as built drawings.
- The 4 No's of Copy has been submitted to Gasonet (3 No's of black and white copy and 1 No's of Colour copy)

27.0 CIVIL WORKS

The contractor has to supply the adequate materials and skilled manpower for the completion of all the civil works. The contractor shall also ensure that the work is carried out as per the details mentioned in the Schedule of rates.

Special cares shall be taken at the time of labours working in depths/lifting of the skids by hydras/ cranes considering all the safety guidelines.

The contractor has to ensure that sample of the all the materials shall be inspected and approved by EIC before carrying out installation or erection work. The contractor has to submit the test certificates for all the materials to be used at the site. The construction shall be carried out strictly as per the drawings provided by the GSL. The contractor shall ensure extra / surplus materials / malba shall be immediately removed from the site after completion of the job.

ANNEXURE # 1		
TOOLS & EQUIPMENTS TO BE PROVIDED BY THE CONTRACTOR FOR PRE LAYING		
S.No.	**Equipment Details**	**Minimum Requirement (In Nos.)**
1	Electro Fusion Box machine make such as GF, Friamat, Kimplas, Hurner, Pegasus, Ritmo etc. and should have the feature of storage of fusion records. (Automatically readable)	2
2	Voltage Stabilizer	1
3	Generator (5.5 KVA)	2
4	Moiling Equipment (for all sizes)	As when required
5	HDD Machines & Equipment (for all types & sizes)	As when required
6	Squeeze Tools (Manual) up to 63 mm	2
7	Squeeze Tools (Hydraulic) from 63 mm up to 180 mm*	2
8	Rotary Peelers	2
9	Universal Scrapers	3
10	Tapping Tools/Allen Keys	Two Sets of all size
11	Pipe Cutter (Round)	2
12	Pipe Cutter (Guillotine)	1
13	Pipe Cutter (ratchet type)	2
14	Gas Detection Unit	as when required
15	Cable and Pipe Locator	as when required
16	Test Ends	One set of all size
17	Pipe Alignment Clamps	as when required
18	Joining Clamps for Coupler (All sizes)	2
19	Joining Clamps for Saddle (All sizes)	2
20	Pipe Straightness	As when required
21	Re-rounding Tools (All sizes)	As when required
22	Jumping Jack Compactor	As when required
23	Roller for Asphalting	As when required
24	Calibrated Pressure Gauges (0-6 Bar)	4
25	Water Tankers	As when required
26	Automatic Thread cutting machine	As when required
27	Heating Element for HDPE Butt joint along with clamping, roller and other accessories	As when required
28	Hydra 3rd Generation , such as Farna	at the time of loading and unloading of material at site and store

STANDARD SPECIFICATION - INSTALLATION OF ABOVE GROUND GI/COPPER/MLC PIPING & FITTINGS DOMESTIC CONNECTIONS

1. SCOPE OF WORK
2. MATERIAL, MANPOWER, EQUIPMENT AND MACHINERY
3. ISSUE OF WORK INSTRUCTIONS
4. PROGRESS OF WORK
5. WORK SHEETS
6. PERMISSIONS / APPROVALS
7. REFERENCE SPECIFICATION, CODES AND STANDARDS
8. RIGHT-OF-USE SURVEY AND MARKING
9. PROTECTION OF STRUCTURES AND UTILITIES:
10. GI AND COPPER ABOVE GROUND SERVICE PIPE
11. TESTING OF GI/COPPER INSTALLATION
12. INSPECTION
13. PURGING & COMMISSIONING
14. RESTORATION
15. SUBMISSION OF FINAL RECORDS
16 COMPLIANCE TO HEALTH, SAFETY & ENVIRONMENT (HSE) HIGH RISE:
17.0 ANNEXURE # 1

1.0 SCOPE OF WORK

Generally the following shall constitute the Contractor's scope of work but not limited to:

- Plan and prepare a schedule for execution and work implementation as per QA/QC Contractor has to submit the Construction/Execution procedures before commencement of work to Owner / Owner's representative for approval.
- Contractor shall submit the QCT/procedure/drawing etc. of all the material to be procured by him for approval before procuring the items. If, QCT/procedure/drawing etc. are not approved from client/consultant then owner has the authority to refuse /reject the same lot material.
- Receipt of Regulators, Domestic meters, GI Pipe ½", MLC Pipe, Isolation valve (1/2" to 1" Only-), Appliance valve ½" as a free issue items from Owner's stores, loading, transportation, unloads at project site. Proper storing, stacking, identification, providing security and insurance during and before installation and commissioning of pipelines. Obtaining the approval for optimum route and permission for work from the concerned authority and EIC.
- Selection of route with the EIC/Consultant and marking the same on walls/floors between 'transition fitting' to 'cooking oven/stove/appliance', making openings and making provisions for fixing clamps. Making temporary but stable platforms/scaffolding /rope ladder etc., required for installation of pipes/fittings at all heights/multi storied flats and locations.
- Contractor shall procure all material except free issue items for installation at the outlet of transition fitting up to the Domestic customers "Appliance /stove / oven for satisfactory completion to the owner/owner's representative.
- Supply and Installation of powder coated GI pipes of above size ½" to 2" etc., all size of GI and MLC fitting, Isolation valve above size 1 Inch etc. between transition fittings to customers kitchen appliances including NPT threading of GI pipes, supply of proper seal outs for threads to join fittings such as elbows, tees, connectors, regulators, meters, appliances & isolation valves etc., as per laid procedures and specifications including clamping and sealing etc. The powder coated GI pipe and Fittings shall be painted after the testing of the GI installation wherever touching is required to eliminate any coating defects during installation.
- Supply of clamps for fixing pipes, Meters wherever required, painting of pipes and fittings. Providing consumables grout material, repair/restoration of walls/floors changes for the pipes including the materials required for conversions and tools and tackles etc. shall be completed as per specification.
- Submit certified copies of RFC card to Projects & O&M prescribed by Client.
- Cleaning, flushing, pneumatic testing and commissioning to the GI/Cu pipe/MLC Pipe & fittings, meters, valves etc. as per specification and hand over the same to Owner/Customer to the entire satisfaction of EIC/CONSULTANT.
- Dismantling of scaffolding/temporary structures and cleaning of site & restore the site as per its original condition.

- Restoration of walls, flooring and other damages while executing the above ground installation up to satisfaction of properly owner.
- Preparation and submission of above ground installation card for each house indicating the laid GI/Cu pipe/MLC Pipe including fittings, mentioned the reasons, if connecting, testing, etc. is not provided to the customers and deviation statements on completion /commissioning of work.
- Any other activities not mentioned/covered explicitly above, but otherwise required for satisfactory completion/operation/safety/statutory/maintenance of the works in new & existing gas charged areas shall also be covered under the Scope of work and has to be completed by the Contractor within specified schedule at no extra cost to Owner.
- Following activities are also in Contractor's Scope:

➢ Carry out joint technical feasibility survey for requests received.
➢ Attend and resolve customer complaints within defined TAT.
➢ Contractor should execute GI/Cu/MLC Installation works with following priority
➢ Online Domestic connections: Gas Supply is available in the locality and pipeline is available just outside kitchen – 10 days from date of receipt of registration.
➢ Underground gas pipeline available across road : i.e. Where service line has to be laid (Laying of service line up to 20m)–TAT-40 days
➢ Fresh Riser Installation in Domestic Connections: In case of Kothi /Bungalow, where gas pipeline is available outside the premises (where service line is already installed)– TAT-30 days
➢ Providing adequate manpower for carrying out laying for PNG installation for emergency cases as and when required. The TAT period for carrying out such emergency cases are defined in tender document.
➢ Printable material i.e. RFC Card, JMR , sticker & safety Guidelines shall be scope in Bidder, owner will provide soft copy of all materials.
➢ All size of GI/ MLC pipes & GI Fittings shall be powder coated before installation and it is in the scope of contractors.

2.0 MATERIAL, MANPOWER EQUIPMENT AND MACHINERY

2.1 Material to be supplied as a free issue material

- MDPE Pipes and MDPE Fittings of all diameters from **20 mm to 125 mm**
- **GI Pipe – ½" Only**
- Isolation Valves from **½" and 1" Only/-**
- MLC Pipes
- Gas Meters, Regulators, **DRS, MRS, SR**, and Skid
- Appliance Valves – **½" size Only/-**

2.2 Material to be supplied by the contractor:

- Supply and installation of powder-coated GI / MLC fittings and pipe clamps of all sizes.
- Supply and installation of isolation valves above 1" size, and as required at site.
- Supply and installation of GI pipes above ½" up to 2", and as required at site.
- Supply and installation of GI sleeves / half-round concrete sleeves.
- Supply and installation of welded riser – 1" size.
- Supply and installation of CS pipes and fittings as per relevant SOR items.
- Supply and installation of reinforced rubber hose (1 m length) with hose clamps on both sides, including all materials required for natural gas conversion (jets, drilling, etc.).
- Supply and installation of RCC Route marker, Plate Marker, Pole Marker.

- Supply Fabrication and installation of SR box.
- Supply and laying of warning mat.
- Providing and laying PCC, RCC, and execution of all necessary civil works as per relevant SOR items.
- Supply, fabrication, and erection of wire cages for MRS and crash guards for protection.
- Provision of all PPE materials required for safe execution of the project (no extra cost shall be payable by Gasonet).
- Supply of all materials required for PNG industrial and commercial connections, excluding meters, regulators, and 1" isolation valves.
- Supply and Installation of HDPE casing for MDPE pipe protection.
- Supply of all other materials required for smooth execution of the project, over and above those mentioned above.

The Contractor shall provide labour, tools (such as Hammer Drill, Piston Drill, Pipe Cutters, Dies for threading, Pipe wrenches, spanners, conversion kits, solder torch, copper tube Cutters, tube benders, lacquering, thinner etc.) in specified numbers, all types of clamps, Plant and equipment necessary for the proper execution of the work. This will include but not limited to list of specialized tools and tackles indicated in Annexure #1.

Special tools shall be required at site for carrying out drilling work in walls other than Brick or RCC (Ex. Granite, Marble, Wooden, Glass Cutting etc.)

The contractor must ensure the availability of DG sets for continuous power supply. In case the power supply is availed at the site from societies, individual residents, contractor shall settle the claims raised by the electricity providers without any cost implication to OWNER. In case contractor doesn't settle the claims for using the electricity from societies/individual residents, on demand by the providers, OWNER will settle the claims and the same will be deducted from the contractor's bills. The progress of work shall not hamper due to non-availability of power supply.

The contractor has to submit the valid calibration certificate for Pressure gauges.

Contractor shall submit the manufacturer test certificate slab test certificate for all items procured by him for approval before commencing the execution.

No hiring of equipment's, tools and tackles by the contractors is allowed at the site.

2.3 Plant and Equipment

All vehicular type machinery shall be in good working condition and shall not cause spillage of oil or grease. To avoid damage to paved surfaces, the contractor will provide pads of timber or thick rubber under the hydraulic feet or outriggers of machinery.

2.4 Sealant, Grout

The contractor shall be responsible to arrange the supply of any consumable sealant or ready mix grout material required for restoration of holes. The sealant/grout supplied by the contractor shall be compatible with the area to be restored/ rectified. No separate payment for the supply of sealant and grout shall be made to the contractor.

2.5 Clamps, Rawal Plugs, Screws and etc.

The Clamps, Brackets for meter, Rawal Plugs, SS-304 Screws (2" length), Nozzles, etc. shall be approved lot wise by EIC prior to installation. Re-drilling of existing appliance (burners) nozzles is strictly not permitted. The quality of materials procured will be got approved and will be as directed by EIC.

The indicative sketch of the Brackets for Meter, and GI/Copper Pipe Clamps is enclosed with the tender. No separate payment for the supply of Meter Brackets and GI/Copper/ MLC clamps shall be made to the contractor.

2.6 Consumable Items

• Special Consumables such as Teflon Tapes with make Loctite 55, Champion etc., solder wire, flux, lacquer, thinner shall be supplied by the contractor and are included in installation rates.

• These consumables shall be of reputed make companies and required grades/class

2.7 Other Materials

The contractor shall supply the following items where required:

4.7.1 All materials required for work, NPT threading, MLC/ copper pipe jointing, testing etc.
4.7.2 All signs, barricades, lights and protective equipment.
4.7.3 All material required for working at higher floor levels (i.e., scaffolding, Ladder, Safety Belts, Self-Locking Safety Harness Belts etc.).
4.7.4 Special consumable such as grease for maintenance of domestic appliances, all paints for painting of GI Pipes, Consumables such as Teflon Tapes, Solder- wire, MLC Clamp, Flux, Lacquer, Thinner, Petrol, Diesel, Fuels and Oils required are to be supplied by the contractor and are included for within the rates.
4.7.5 All minor items not expressly mentioned in the contract but which are necessary for the satisfactory completion and performance of the work under this contract

2.8 Acquisition, Receipt and Storage of Materials

The Contractor shall collect Free issue materials from Owner's designated stores in between the hours to be advised by the EIC.

The contractor shall carry out assessment of material required for GI/Copper/MLC installation in allocated area. After approval from Owner, contractor shall place order for purchasing of GI Pipes above size ½" & All size of GI & MLC fittings, Isolation Valve size above than 1" and Reinforced Rubber hose with hose clamps to anyone of approved vendors as per the list attached in the tender document. The contractor shall also ensure that the QCT for these materials shall be approved before the start of production activity. Once QCT is approved, contractor shall forward inspection call to the Owner depending upon the material requirement at the site. The inspection of these materials shall be carried out by Owner appointed third party inspection agency. It is contractor's responsibility for document submission, arranging dispatch clearance, handling, loading, transportation and unloading of these materials at their own respective store.

Any other activity not mentioned/covered, explicitly, but otherwise required for satisfactory completion/operation/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 Owner. The Contractor shall carry free issue material in such a manner as to preclude damage using transportation and handling.

The Contractor shall physically examine all materials at the time of acceptance the material in store and notify the EIC immediately of any damage or defect noticed by the Contractor. The GSL representative shall duly note any damage or defect in a site instruction book and both parties shall counter sign the entry.

All materials shall be stored in contractor's stores near site in such a manner so as to prevent any damage to the materials from scratching, gouging, indentation, excessive heat or by contact with any sharp objects or chemicals.

The Contractor shall be required to submit inventory details of materials every month.

The Contractor shall maintain log book at their respective stores stating issue and availability of free issue material at a given day. Further, it is mandatory that the contractor is required to undertake and submit inventory details of free issue and purchased materials on monthly basis to Owner/ Owner's representative as per the approved format of the owner. The inventory details shall be in correlation with the Daily progress chart and material reconciliation sheet.

Material reconciliation indicating issue of material, consumptions and defective material shall be submitted on every three months basis.

3.0 ISSUE OF WORK INSTRUCTIONS

- The contractor will be required to carry out GI installation in the areas where MDPE laying is under progress. However, testing of GI installation shall be done in conjunction with laying of MDPE Service Lines to respective premises. A general scheme of distribution to domestic consumer is indicated in enclosed drawing for reference. It may vary in case of individual and multi storied flats.
- All skilled personnel like jointers, conversion technicians will be approved and certified by Site In-charge. The technicians who will carry out joining of copper material and conversions will undergo a test by Owner.
- The rates to be quoted by contractor shall be inclusive of all preparatory/bye works, platform materials, labour, supervision, tools, taxes, duties, levies, salaries, wages, overheads, profits, escalations, fluctuations in exchange rates and no change in the rates shall be admissible during tenancy of the contract.
- The schedule of items of GI/Cu/MLC installations have been described in brief and shall be held to be completed in all respect including safety requirements as per Standard Specification of HSE, tests, inspection, QA/QC works, enabling and sundry works. The payment shall be made against completed and measured works only. No extra works whatsoever shall be considered in execution of these items.

25.1PROGRESS OF WORK

The contractor shall proceed with the work under the contract with due expedition and without delay. Contractor shall assess the material requirement of the allotted area and submit the schedule plan for execution & purchasing before start of actual work.

5.0 WORK SHEETS

The quantities of GI/Cu/MLC pipe and other details will be checked by Owner's site engineer and the same shall be incorporated in RFC cards, signed & dated as certified, on site. The cards will then be approved by the EIC.

Measurement sheets shall be prepared based on the RFC cards and checked and certified by the EIC/ TPI/ Site engineers for billing purpose.

If measurement sheets submitted are illegible, incomplete or incorrectly booked they will be returned to the contractor.

6.0 PERMISSIONS / APPROVALS

Contractor shall be responsible for obtaining permissions from society management, RWA, individual residents and any other concerned authority, if required, for completion of the work. Contractor must take the prior appointment from the residents for carrying out the work.
The contractor shall work in close consultation/coordination with the ElC.

- The necessary coordination, liaison and arrangements for inspection and approval shall be the contractor's responsibility. Inspection and acceptance of the work by authority shall not relieve the contractor from any of these responsibilities under this contract. The contractor shall plan the execution of work in such a manner so that all the registered customers are attended in phased manner. However, it is the contractor's responsibility to fix a firm appointment with the consumer for carrying out the work.
- The contractor is also required to obtain a "Labour License" from the Assistant Labour Commissioner of respective Administration/Central Govt.
- It will be the contractor's responsibility to familiarize himself and comply with, any other local rules, regulations or statutory requirements applicable to the work.
- The contractor has to take responsibility of the action of supervisors, plumbers and helpers provided by him.

7.0 REFERENCE SPECIFICATION, CODES AND STANDARDS

The contractor shall carry out the work in accordance with this specification, Owner's Engineering Standards: ASME B31.8 - Gas Transmission and Distribution Piping Systems; Oil Indian Safety Directorate Norms (OISD), the American Gas Association Document - Purging Principles and Practice and PNGRB Guidelines.

If the contractor find any discrepancy, ambiguity or conflict in between any of the Standards and the contract documents, then this should be promptly referred to the Engineer -in-Charge (EIC) for his decision, which shall be considered binding on the contractor.

8.0 RIGHT-OF-USE SERVEY AND MARKING

The route of the pipeline to be installed shall be decided with consent of the consumer and Site Engineer/EIC. Contractor must ensure that the persons/workers/supervisors/ working at site shall have proper identity cards prior to entering the premises of the consumer.

No temporary or permanent deposit of any kind of material resulting from the work shall be permitted in the approach or any other position, which might hinder the passage and/ or natural water drainage, or any area where there is objection from consumer.

The contractor shall obtain necessary permissions from land Owners and tenants and shall be responsible for all damages caused by the construction and use of such approaches, pavements, gardens, rooms, walls, roof etc., at no extra cost to Owner.

Owner/Consultant and the contractor at each premises or housing colony to be supplied with gas will conduct a joint survey. The survey record will note Customer details, the potential gas supply points and proposed meter positions and estimates of material quantities. The contractor's representatives will make as sketch of the agreed pipe routes, if necessary.

The contractor will be responsible for contacting the Customer and making the ecessary arrangements for access and appointments to carry out the work. Owner will not be responsible for any time lost due to failed appointments or disputes with Customer.

The contractor shall confine its operations within limits of the Right in use. The contractor shall restore any damage to property outside ROU.

The contractor shall also carry-out all necessary preparatory work if needed to permit the passage of men and equipment. Lights, Curbs, signs shall be provided wherever and/or required by the Owner necessary to protect the public.

9.0 PROTECTION OF STRUCTURES AND UTILITIES

The contractor shall at his own cost, support and protect all buildings, walls, fences or other structures and all utilities and property which may, unless so protected, be damaged as a result of the execution of the works. He shall also comply with the requirements in the specification relating to protective measures applicable to articular
operations or kind of work.

While painting, contractor must take care of the consumer premises while carrying out the job such as spillage on floor, walls, ceilings, sun shades etc. If the same does occur, the contractor has to immediately make things to original.

10.0 POWDER COATED GI AND COPPER/MLC ABOVE GROUND SERVICE PIPE

The powder coated GI/MLC service pipe installation work includes all work necessary to connect from the PE/GI transition fitting on the down-stream of the PE service, to the Customers appliance, including the installation of regulator, valves, fittings, meters, clamps etc. The contractor shall be required to provide all equipment, tools and materials necessary to execute the work in an efficient and effective manner. Along with ladders, scaffolding pipe, dies, tripods, vices, fittings and Teflon tape, drills for concrete and other masonry, drills for timber, Granite, Marble Stones and laminated surfaces inside Customers property, bending tools, clamps, sleeves to facilitate the pipe passing through floors and walls, paint for marking etc.

All powder coated GI risers at the outside of buildings shall be fully supported to carry the weight of piping. A flanged foot or similar device, capable of supporting the total weight of the riser, shall support risers. The riser shall be installed in a vertical line from its point of support to its highest point with a minimum of changes in direction. The threading of GI pipe shall be NPT and conforming to ANSI B 1.20.1.

Contractor has to supply different types/sizes of powder coated clamps (Mild Steel) for fixing GI pipes suiting to the site conditions. The detailed cross sectional of Gl Pipe Clamps/Meter brackets are as per Drawing.

All riser and lateral pipe shall be clamped to the building at intervals not exceeding 1.0 mtrs. Maximum distance between clamps shall be 1.0 - 1.2m when pipe goes to the straight, if any tee or fittings lies in between the pipe then clamp shall be placed 150 mm far away from center line of

fittings at every sides. However, the same may be changed as per site conditions/as directed by EIC. Minimum gap between pipe & wall shall be 25 mm. The joints/ fittings of the GI installation shall be painted only after carrying out testing of the installation.

Where pipe passes through the balcony and the surface is slightly elevated around the service pipe or its surrounding sleeve to prevent the accumulation of water at that point. Where a short piece of sleeve is used around the gas pipe, the sleeve should be embedded in the concrete with a mix of mortar and the void between the pipe and sleeve filled with a suitable sealant. The sealant should be beveled such as to prevent an accumulation of water. Supply of clamps for all sizes of the GI pipes is in contractor's scope. Contractor has to take prior approval for design/types of clamps, paintings etc. Pipe shall preferably be entered into building above ground and remain in a ventilated location. The location for entry shall be such that it can be easily routed to the usage points by the shortest practicable route.

10.1 NON LMC

Non LMC GI Pipe shall be defined as the GI pipe installed from transition fitting to lateral isolation valves.

Regulator piece: Powder coated GI pipe of 1/2'' & 1" (if required) dia installed of length 1.2 to 1.5m from transition fitting up to inlet of regulator. Its length may very as per site situation subject to prior approval from Site In-Charge or as per instruction of EIC. The Laying of GI Pipe from the transition fittings to regulators shall be payable in the numbers as per SOR.

Riser for Bungalow /Apartments having single kitchen and no floors: Powder coated GI riser pipe of ½'' & 1" dia shall be installed from regulator isolation valve to lateral isolation valve for single kitchen as directed by EIC.
Riser for Bungalow /Apartments having floors up to G+3: Powder coated GI riser pipe of ½'' & 1" dia shall be installed from regulator isolation valve to lateral isolation valve for G+3 Apt and Individual kothi /Bungalow as directed by EIC.

10.2 LMC

LMC GI/CU/MLC pipe shall be defined as the GI pipe installed from lateral isolation valve to appliance valve.

- **PNG CONNECTIONS**

Installations from riser (lateral isolation valve)-. Installation of GI/Cu MLC pipe from lateral Isolation valve upto appliance valve excluding the installation of Cu Pipe/GI/MLC from MIV to Meter inlet. However the pipe from MIV to Meter inlet shall be covered in SOR of meter installation with required fittings.

The contractor shall also ensure that gas supply shall not be provided to the customer in any Concealed Piping.
Except Meter, Regulator, GI Pipe ½" Only, Isolation valve size upto 1", Appliance valve. Contractor shall procure all other materials (i.e. Pipe, fittings, clamps, Valve, appliance valve etc.) as per attached specification for installation and to the entire satisfaction of EIC/consultant.

The Copper/MLC service pipe installation work includes all work necessary to connect downstream of the meter to the Customers appliances. The contractor shall be required to provide all equipment, tools and materials necessary to execute the work in an efficient and effective manner. Along with these, he will be required to provide ladders, scaffolding pipe, drills for concrete and other masonry, special drills for timber, Granite, Marble Stones and laminated surfaces inside Customers property, bending tools, sleeves to facilitate the pipe passing through floors and walls, etc. Copper pipes & fittings shall be provided by Contractor.

During installation, the MLC pipe is to be cut to proper length with pipe Cutter, correct the ovality of pipe end with a plastic reamer, cleaning of inside surface of pipe & outside surface of fitting, put the fitting nut over the pipe and slide the compression ring over the pipe. Make sure that the mouth of the nut and pipe face in same direction. Push the fitting insert into the pipe up to shoulder and use the spanner to tighten it up completely. Contractor shall ensure that jointing of MLC pipe & Fittings shall be done by skilled manpower.

Contractor has to supply different types/sizes of approved clamps (PE 80/PVC) for fixing Copper/MLC pipes suiting to the site conditions Contractor has to take prior approval of EIC for quality of the clamps, solder, flux, lacquer, thinner etc. The approval shall be taken for every fresh lot of clamps from EIC before installation at site.

All copper/MLC piping shall be clamped to the walls at intervals not exceeding 500 mm. For copper pipe the solder wire shall be of reputed company of diameter size 3.25mm, lead free as per BS 29453:1994 (Soft solder alloys) and supplied in coils. The detail specification. Solders for use with copper tube & fittings generally melt within the temperature range 180°C- 250°C. The contractor has to furnish the certificate of confirmation of standards before start of work.

GSL reserves the right of the release of payment against the RFC services on the basis of completion of NG conversion or submission of the NG consent not attributable to vendor.

- **Installation of Meter**

Installation of domestic meters with associated inlet and outlet connections (GI/Brass fittings), on the wall with approved powder coated meter brackets and angles in new & existing gas charged areas ensure a clear gap between meter and wall.

The contractor shall supply approved powder coated meter brackets and angle brackets.

The Meter installation will be preferred in open/ventilated space so as to prevent Gas accumulation and easy dispensation of gas to atmosphere in case of any smell/leakage of gas. The Meter installations will not be provided in any fixed enclosures, cabinets (below or above the slab) or confined space in the customer premises.

The Contractor shall ensure that GI installations and rubber hoses shall not be exposed to direct heat of Gas burners. The installation should have minimum clearance of about 300 mm from electric point mains& switches. Minimum distance between Appliance Valve & Gas Burners shall be 0.3 Meters. The isolation valve shall be installed after entering the customer premises/kitchen but before the meter installation.

The above activities along with restoration of the area to original shall be carried out to the complete satisfaction of consumer and EIC.

- **NG Conversion**

Further, after RFC, conversion shall be done in customer premises shall be scope of Bidder.

Powder Coating /Painting of GI Pipes

The entire lengths of the pipeline along with fittings are to be painted / powder coated after proper surface preparation as follows:

Painted (for scratched powder coated pipes and fittings only):

• One coat of Primer Application (Appropriate Zinc based primer)
• Two coats of synthetic enamel paint- canary yellow of minimum of 30 microns per coat of reputed make like Asian, Berger, Durolac and Nerolac. (No other make shall be used for painting).

All painting materials including primers and thinners brought to site by contractor for application shall be procured directly from manufacturers/dealers as recommended by EIC/ specifications and shall be accompanied by manufacturer's test certificates. The contractor shall ensure that smooth finish is attained after carrying out painting.

The painting work shall be subject to inspection and certification by Engineer-in Charge at all times. Painting of GI pipe shall be paid with installation of GI pipes.

11.0 TESTING OF GI / COPPER/MLC INSTALLATION

- The installation from PE/GI transition fitting up to regulator shall be tested at the pressure of 1.5 times of operating pressure and as directed by EIC.
- The GI/copper/MLC installation from Meter outlet to appliance valve (except meter) shall be tested at a pressure of 100 mbar with manometers or diaphragm gauge for a hold period of minimum 15 minutes and all the joints shall be checked with soap solution. Testing to be carried out with the entire satisfaction to TPIA/EIC.
- The meter shall be removed while carrying out the testing and joints of the meter shall be tested on line with soap solution after completion of the work. Proper test ends shall be made along with gauges.
- The contractor shall supply the Calibrated Pressure Gauges/ Manometer/Diaphragm Gauges of suitable range for testing of GI/Copper/MLC Installations ranging from 0-4 bars/0-150 m bar/0-250 m bar respectively. The calibration certificate shall be submitted before the start of the execution work.

12.0 PURGING & COMMISSIONING

The rate for purging & commissioning shall be included in the GI/Cu/MLC installations.

Care shall be taken to ensure that the outlet is so located that vent gas cannot drift into buildings.

The commissioning of the Gl installation should be performed as follows:-

- Ensure the method of purging is such that no pockets of air are left in any part of the Customer's piping.
- Ensure the area is well ventilated, and free from ignition sources.
- Continue to purge until gas is available at other appliances; Check availability of gas using Methane- detector.

- Internal piping i.e. Meter Inlet, Diaphragm Meter & copper/MLC pipe shall be tested pneumatically & with soap solution from inside of each domestic connection.

13.0 RESTORATION

- Contractor has to restore the area wherever he has carried out drilling, clamping etc. to its original condition to the satisfaction of the consumer and to ensure no passage to the premises and seepage. If the work was carried out in Govt. Flats CPWD/NDMC/Institutional areas), contractor has to restore the area according to CPWD specifications and obtain a NOC/Clearance certificate from the concerned authorities maintaining the flats, after completion of the work.

- The restored slabs or brickwork should match the surrounding surface levels. Joint widths should match the existing conditions and be filled with a dry or wet mix of mortar.
- The contractor will be responsible for the maintenance of all restoration carried out, for the duration of the contract guarantee period.
- The contractor is to ensure the restoration work is properly supervised, and that the material used is suitable for the purpose. Wherever the required standards are not achieved the contractor will be required to replace the defective reinstatement work.
- Note that Payment for GI/Copper/MLC installation will be released only after satisfactory restoration and clearing of the sites of all surplus materials etc.

14.0 SUBMISSION OF FINAL RECORDS

Contractor shall submit three sets each of the following documents in hard & soft copy:
• Total list of houses in the area allotted to him giving details of connections provided & reasons where connection could not be given completed.
• The details recorded in RFC cards of every domestic house.
• Details of houses where piping done along with materials used.
• Total material consumption report.
• Material reconciliation with respect to the materials issued.
• Test reports & calibration certificates of gauges etc.
• Any other documents/records required.
• Extra Piping details

15.0 Compliance to Health, Safety & Environment (HSE) High Rise:

Scope includes use of fall arrestor, Ascenders / descended, PPE, Barricades/ Warning Boards (03 No's) connected with warning board/Caution tapes in areas where piping work is in progress, Use of Safety shoes, Wacky talky, Hand gloves, Reflective jackets, Hard hats (helmets), eye and ear safety equipment, Fire extinguishers and as per the detailed scope of work. Contractor shall also prepare and submit duly certified Safety check list signed by TPIA/EIC. This set-up is applicable for more than work at height including high rise.

ANNEXURE # 1			
TOOLS & EQUIPMENTS TO BE PROVIDED BY THE CONTRACTOR FOR GI/Copper/ MLC work			
S.No.	**Equipment Details**	**Per Technician**	Per Team
1	Pipe Wrench 250 mm	1	4
2	Pipe Wrench 350 mm	1	4
3	Pipe Wrench 450 mm		2
4	Adjustable Spanner 50 mm		4
5	Adjustable Spanner 150 mm	1	2
6	Adjustable Spanner 250 mm	1	2
7	Set of combination spanner 3/16”- 11/4”AF	1	1
8	Set of combination spanners 5mm-30mm	1	1
9	Large tool boxes	1	2
10	Set flat – headed screw drivers	1	2
11	Set Philips screw drivers	1	2
12	Small hammer	1	2
13	Combination pliers/mole grips	1	2
14	Set of files	1	2
15	Drill bits for 1”pipe		2
16	Stocks and dies for NPT threading ½”, ¾”, GI pipe		3
17	Blowtorch		1
20	Hand drill 3/8”chuck		2
21	Portable electric drill 240v, heavy duty		2
22	Spare blades	4	4
23	Batter Powered torches	2	2
24	Measuring Tape 30m	1	2
25	Wire Brush	1	2
26	Portable Pipe vice & tripod		2
27	Set steel twist drills 0.5-2.0mm (for applianceconversion)		1
28	Set steel twist drill 1mm-10mm		2
29	Set masonry drills 1mm-10mm	1	2
30	Graphite based grease	As required	As required
31	Lubricating Oil	As required	As required
32	Hand Cleaner	As required	As required
33	Copper pipe cutter 12mm		4
34	GI Pipe Cutters ½” Gas Detection Equipment Power Generator 2.5 KVA Pressure Gauge (0- 10 bar) Pressure Gauge (0-4 bar) Diaphragm Gauge (0-400m bar) Manometer (0-150m bar)	As required 2 2 1 1	2 4 8 2 1
35	Automatic Thread Cutting Machine		As required
36	GI Pipe Cutter		2
37	MLC Pipe crimping and bending tools or any other tool required for MLC piping installation		1
38	Teflon Tape with make Loctite 55, Champion etc to be used	as required	as required

STANDARD SPECIFICATION FOR WELDED RISER & GI/COPPER/MLC PIPING INSTALLATIONS FOR PNG CONNECTIONS IN BUILDINGS

1.0 MATERIAL, MANPOWER, EQUIPMENT AND MACHINERY
2.0 ISSUE OF WORK INSTRUCTIONS
3.0 PROGRESS OF WORK
4.0 WORK SHEETS
5.0 PERMISSIONS / APPROVALS
6.0 REFERENCE SPECIFICATION, CODES AND STANDARDS
7.0 RIGHT-OF-USE SURVEY AND MARKING
8.0 PROTECTION OF STRUCTURES AND UTILITIES:
9.0 GI AND COPPER ABOVE GROUND SERVICE PIPE
10.0 TESTING OF GI/COPPER INSTALLATION
11.0 INSPECTION
12.0 PURGING & COMMISSIONING
13.0 RESTORATION
14.0 SUBMISSION OF FINAL RECORDS
15.0 COMPLIANCE TO HEALTH, SAFETY & ENVIRONMENT (HSE) HIGH RISE:
16.0 ANNEXURE # 1

1.0 MATERIAL, MANPOWER, EQUIPMENT AND MACHINERY

Material to be supplied by Owner as Free Issue.

OWNER's SCOPE OF SUPPLY (FREE ISSUE ITEM):

- MDPE Pipes and MDPE Fittings of all diameters from **20 mm to 125 mm**
- **GI Pipe – ½" Only**
- Isolation Valves from **½" and 1" Only/-**
- MLC Pipes
- Gas Meters, Regulators, **DRS, MRS, SR**, and Skid
- Appliance Valves – **½" size Only/-**

• Material / Equipment & machinery to be supplied by contractor

Contractor shall procure/ purchase Powder GI Pipe above size ½" inch & all size of GI fitting MLC fittings, Isolation Valve above size 1" and Reinforced rubber hose with other material which is required to satisfactory completion/safety/statutory of the works as per tender at no extra cost to Owner. The GSL logo shall be marked on the material supplied by contractor. The contractor shall take approval from owner/owner representative for marking on the material to be procured by contractor before placement of order.

The Contractor shall provide labour, tools (such as Hammer Drill, Piston Drill, Pipe Cutters, Dies for threading, Pipe wrenches, spanners, conversion kits, solder torch, copper tube Cutters, tube benders, lacquering, thinner etc.) in specified numbers, all types of clamps, Plant and equipment necessary for the proper execution of the work. This will include but not limited to list of specialized tools and tackles indicated in Annexure #1.

Special tools shall be required at site for carrying out drilling work in walls other than Brick or RCC (Ex. Granite, Marble, Wooden, Glass Cutting etc.)

The contractor must ensure the availability of DG sets for continuous power supply. In case the power supply is availed at the site from societies, individual residents, contractor shall settle the claims raised by the electricity providers without any cost implication to OWNER. In case contractor doesn't settle the claims for using the electricity from societies/individual residents, on demand by the providers, OWNER will settle the claims and the same will be deducted from the contractor's bills. The progress of work shall not hamper due to non-availability of power supply.

The contractor has to submit the valid calibration certificate for Pressure gauges.
Contractor shall submit the manufacturer test certificate / lab test certificate for all items procured by him for approval before commencing the execution.
No hiring of equipments, tools and tackles by the contractors is allowed at the site.

Plant and Equipment

All vehicular type machinery shall be in good working condition and shall not cause spillage of oil or grease. To avoid damage to paved surfaces, the contractor will provide pads of timber or thick rubber under the hydraulic feet or outriggers of machinery.

Sealant, Grout

The contractor shall be responsible to arrange the supply of any consumable sealant or ready mix grout material required for restoration of holes. The sealant/grout supplied by the contractor shall be compatible with the area to be restored / rectified. No separate payment for the supply of sealant and grout shall be made to the contractor.

Clamps, Rawal Plugs, Screws and Nozzles etc.

The Clamps, Brackets for meter, Nylon Rawal Plugs, SS/Brass Screws, Nozzles, etc. shall be approved lot wise by EIC prior to installation. Re-drilling of existing appliance (burners) nozzles is strictly not permitted. The quality of materials procured will be approved by Owner/Owner's representative or as directed by EIC.

No separate payment for the supply of Meter Brackets and GI/Copper clamps shall be made to the contractor.

Consumables Items

Consumables such as Electrodes, Teflon Tapes, solder wire, flux, lacquer; thinner shall be supplied by the contractor and are included in installation rates.

These consumables shall be of reputed make companies and required grades/ class.

Other Materials

The contractor shall supply the following items wherever required:

All materials required for work, NPT threading, copper pipe jointing, testing etc.

All signs, barricades, lights and protective equipment.

All material required for working at height (i.e. scaffolding, Ladder, Safety Belts).

Self-Locking Safety Harness Belts PETZL make as mentioned in safety procedure are mandatory.).

Contractor shall provide but not limited to ascender, descended and pulley system essentially to carry out work at height.

Motorized suspended platform with skilled operator shall be preferred for installation above 25th storey building.

Special consumable such as grease for maintenance of domestic appliances, all paints for painting of GI Pipes, Regulator Boxes, Consumables such as Teflon Tapes, Solder-wire, Flux, Lacquer, Thinner, Petrol, Diesel, Fuels and Oils required are to be supplied by the contractor and are included within the rates.

All minor items not expressly mentioned in the contract but which are necessary for the satisfactory completion and performance of the work under this contract.

Acquisition, Receipt and Storage of Materials

The Contractor shall collect Service Regulators, Domestic Meter, Meter Regulators and other free issue materials estimated for maximum one month from Owner's designated stores in between the hours to be advised by the EIC.

The Contractor shall carry out assessment of material required for GI/Copper/MLC installation in allocated area. After approval from Owner, contractor shall place order for purchasing of Powder coated GI Pipes above size ½", All Size Powder coated GI Fitting & Wrought Steel Fittings (Forged Fittings), Copper pipes & fittings, Brass Fittings size above dia 1" and Reinforced Rubber hose with Hose clamps, MS/PVC clamps using SS304/brass screws, Isolation Valve, super hold nylon rawl plug anchor to any of the approved vendors as per the list attached in the tender document. The contractor shall also ensure that the ITP for these materials shall be approved before the start of production activity. Once ITP is approved, contractor shall forward inspection call to the Owner depending upon the material requirement at the site. The inspection of these materials shall be carried out by Owner appointed third party inspection agency. It is contractor's responsibility to submit documents, arranging dispatch clearance, handling, loading, transportation and unloading of these materials at their own respective stores.

Any other activity not mentioned / covered, explicitly, but otherwise required for satisfactory completion / operation / 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 Owner.

The Contractor shall carry free issue material in such a manner as to preclude damage during transportation and handling.

The Contractor shall physically examine all free issue materials at the time of acceptance of the material in GSL store.

Any damage not so recorded will be deemed not to have existed at the time of acceptance of material in store by the Contractor and the cost of repair or replacement or rectification shall be borne by the Contractor.

All materials shall be stored in contractor's stores near site in such a manner so as to prevent any damage to the materials from scratching, gouging, indentation, excessive heat or by contact with any sharp objects or chemicals.

The Contractor shall be required to submit material reconciliation statement every month/ before issuing any free issue material from GSL store duly certified by GSL representative.

The Contractor shall maintain stock register at their respective stores stating issue and availability of free issue material at a given day. Further, it is mandatory that the contractor is required to undertake and submit inventory details of free issue and purchased materials on monthly basis to Owner/ Owner's representative as per the approved format of the owner. The inventory details shall be in correlation with the Daily progress chart and material reconciliation sheet.

2.0 ISSUE OF WORK INSTRUCTIONS

- The contractor will be required to carry out GI/CU/MLC installation as per instructions of EIC.
- All skilled personnel like welders, jointers, conversion technicians will be approved and certified by Owner/Owner's Representative. The technicians who will carry out welding of Risers, joining of copper material and conversions will undergo a test by Owner. Those who clear the test will be issued identity cards duly signed by Owner/Owner's representative. Approved technicians shall be only authorized to take up respective jobs. In case it is found that contractor personnel other than authorized are carrying out these works, applicable penalty will be levied to the contractor as per contract.
- The rates to be quoted by contractor shall be inclusive of all preparatory/bye works, platform materials, labour , supervision, tools, taxes, duties, levies, salaries, wages, overheads, profits, escalations, fluctuations in exchange rates and no change in the rates shall be admissible during tenancy of the contract.
- The schedule of items of GI/Cu/MLC installations have been described in brief and shall be held to be completed in all respect including safety requirements as per Technical specification of HSE, tests, inspection, QA/QC works, enabling and sundry works. The payment shall be made against completed and measured works only. No extra works whatsoever shall be considered in execution of these items.

3.0 PROGRESS OF WORK

- The contractor shall proceed with the work under the contract with due expedition and without delay.
- Contractor shall assess the material requirement of the allotted area and submit the schedule plan for execution & purchasing before start of actual work.
- The EIC may direct in what order and at what time the various stages or parts of the work under the contract shall be performed. Daily and Weekly progress reports shall be submitted in the formats approved by Owner, indicating broadly the laying, testing, RFC, conversions and extra piping.

4.0 WORK SHEETS

- The quantities of GI/Cu/MLC pipe and other details will be checked by Owner's site engineer and the same shall be incorporated in RFC cards, signed & dated as certified, on site. The cards will then be approved by the Owner/Owner's Representative.
- Measurement sheets shall be prepared based on the RFC cards and checked and certified by the site engineers for billing purpose.

- If measurement sheets submitted are illegible, incomplete or incorrectly booked, it will be returned to the contractor.

5.0 PERMISSIONS / APPROVALS

- Contractor shall be responsible for obtaining permissions from society management, RWA, individual residents and any other concerned authority, if required, for completion of the work. Contractor must take the prior appointment from the residents for carrying out the work.
- The Contractor shall work in close consultation/ co-ordination with the Owner/ Owner's Representative.
- The necessary coordination, liaison and arrangements for inspection and approval shall be the contractor's responsibility. Inspection and acceptance of the work by authority shall not relieve the contractor from any of these responsibilities under this contract. The contractor shall plan the execution of work in such a manner so that all the registered customers are attended in phased manner. However, it is the contractor's responsibility to fix a firm appointment with the consumer for carrying out the work.
- The contractor is also required to obtain a "Labour License" and BOCW registration from the Assistant Labour Commissioner of respective Administration/Central Govt.
- It will be the contractor's responsibility to familiarise himself and comply with, any other local rules, regulations or statutory requirements applicable to the work.
- The contractor has to take responsibility of the actions of supervisors, plumbers and helpers provided by him.

6.0 REFERENCE SPECIFICATION, CODES AND STANDARDS

The contractor shall carry out the work in accordance with this specification, Owner's Engineering Standards: ASME B31.8 – Gas Transmission and Distribution Piping Systems; Oil Indian Safety Directorate Norms (OISD), the American Gas Association Document – Purging Principles and Practice and PNGRB Guidelines.

If the contractor finds any discrepancy, ambiguity or conflict in between any of the Standards and the contract documents, then this should be promptly referred to the Engineer-in-Charge (EIC) for his decision, which shall be considered binding on the contractor.

7.0 RIGHT-OF-USE SURVEY AND MARKING

The route of the pipeline to be installed shall be decided with consent of the consumer and Owner/Owner's Representative. Contractor must ensure the persons/workers/supervisors/ working at site shall have proper identity cards prior to entering the premises of the consumer.

No temporary or permanent deposit of any kind of material resulting from the work shall be permitted in the approach or any other position, which might hinder the passage and / or natural water drainage, or any area where there is objection from consumer.

The contractor shall obtain necessary permissions from land Owners and tenants and shall be responsible for all damages caused by the construction and use of such approaches, pavements, gardens, rooms, walls, roof etc., at no extra cost to Owner.

Owner/Owner's Representative and the contractor will conduct a joint survey at each premises or housing colony to be supplied with gas. The survey record will note Customer details, the potential gas supply points and proposed meter positions and estimates of material quantities. The Contractor will make a sketch of the agreed pipe routes.

The Contractor will be responsible for contacting the Customer and making the necessary arrangements for access and appointments to carry out the work. Owner will not be responsible for any time lost due to failed appointments or disputes with Customer.

The Contractor shall confine its operations within limits of the Right in use. The contractor shall restore any damage to property.

The Contractor shall also carry out all necessary preparatory work if needed to permit the passage of men and equipment. Lights, Curbs, signs shall be provided wherever and/or required by the Owner necessary to protect the public.

8.0 PROTECTION OF STRUCTURES AND UTILITIES:

The contractor shall at his own cost, support and protect all buildings, walls, fences or other structures and all utilities and property which may, unless so protected, be damaged as a result of the execution of the works. He shall also comply with the requirements in the specification relating to protective measures applicable to particular operations or kind of work.

During painting, contractor must take care of the consumer premises while carrying out the job such as spillage on floor, walls, ceilings, such shades etc. If the same does occur, the contractor has to immediately make things to original.

9.0 GI AND COPPER/MLC PIPE ABOVE GROUND SERVICE PIPE

- Definitions:
  a. High Rise Buildings – A building having fourteen or more storey's above ground level. (i.e. of G + 14 orientation)
  b. Riser - A riser is the vertical section of a service pipe laid up a building which supplies a number of laterals.
  c. Lateral-A lateral is a horizontal off-take from a riser, which supplies a single customer/dwelling.
  d. Service Regulator (SR) – Service Regulator is a regulator installed on a gas service line to control the pressure from 4 bar to110 mbar
  e. Meter Regulator (MR) – Meter regulator is a pressure regulator installed in series with another pressure regulator which reduces the pressure from 110 mbar to 21mbar.
  f. Riser Isolation Valve (RIV) - Riser Isolation valve is fitted at the bottom of the riser to isolate the riser from the underground gas supply network.
  g. Lateral Isolation Valve (LIV) – Lateral Isolation Valve is fitted on horizontal riser (lateral) after TEE to facilitate online Tappings and other maintenance works.
  h. Meter Control Valve (MCV) - A Meter Control Valve is fitted immediately upstream of the meter to enable the internal pipe work inside the property to be isolated from the upstream gas supply network. It must be fitted in a manner that the consumer can easily operate the valve handle.

Specification for Welding

The requirements stated herein shall be followed for the fabrication of fillet type of welded joints of GI (IS 1239 heavy class) piping systems connected with pipe line and related facilities. The welded pipe joints shall include the followings:

a. All line pipe joints of the Circumferential fillet welded type

b.Attachments of fitting and other supports pipes

Welding Consumables:

The Welding electrodes shall confirm to the class AWS E 6013. All electrodes shall be purchased in sealed containers stored properly to prevent deterioration. The electrodes shall be handled with care to avoid damage.

Welding Process:

Welding of GI material under this specification shall be carried out using Shielded Metal Arc Welding Process (SMAW).

Welding :

Root pass and final pass shall be done with 2.5 mm dia. Electrode. Welding to be carried out in line with PQR / WPS approved by GSL/Consultancy. Welding to be done by qualified welders only.

Planning and Design of GI Welded Riser

- Risers and laterals must be designed to run through the optimal possible route approved by GSL representatives, taking into consideration potential meter positions, design regulations and access for future maintenance.
- The riser and associated laterals must be constructed in the most economical manner using the minimum no. of fittings, minimum pipe and considering future maintenance requirements.
- For buildings above 14 floors - for ease in construction and maintenance the preferred method will be welded pipe –work laid in a purpose designed and built ventilated utilities shaft.
- Risers and laterals must be laid a minimum of 300 mm from any electrical equipment or installations. On occasions where the pipe has to cross over a cable, this has to be done at right angles and a minimum gap of 25 mm must be maintained between the pipe and cable. Consideration may be given to wrapping the pipe with electrical insulation tape for protection against electrical short circuiting.
- Provision for access to the riser for future maintenance must be made at the design stage & involved undertaking a risk assessment for undertaking future maintenance work.
- The GI service pipe installation work includes all work necessary to connect from the PE/GI transition fitting on the down-stream of the PE service, to the Customers appliance, including the installation of service regulator, meter regulator, valves, fittings, meters, clamps etc. The contractor shall be required to provide all equipment, tools and materials necessary to execute the work in an efficient and effective manner. Along with ladders, scaffolding pipe, dies, tripods, vices, fittings and Teflon tape, drills for concrete and other masonry, drills for timber, Granite, Marble Stones and laminated surfaces inside Customers property, bending tools, clamps, sleeves to facilitate the pipe passing through floors and walls, paint for marking etc.
- All Welded GI risers at the outside of buildings shall be fully supported to carry the weight of piping. A flanged foot or similar device, capable of supporting the total weight of the riser, shall support risers. The riser shall be installed in a vertical line from its point of support to its highest point with a minimum of changes in direction. The threading of GI pipe shall be NPT and conforming to ANSI B1 20.1.
- Contractor has to supply different types/sizes of approved powder coated clamps (Mild Steel) for fixing GI pipes suiting to the site conditions. The contractor shall get approval from Owner/Owner's Representative for every fresh lot of the clamps, brackets, regulator boxes and other consumables, prior to start of installation.
- All riser and lateral pipe shall be clamped to the building at intervals not exceeding 1.0 mtrs. Maximum distance between clamps shall be 1.0 m when pipe goes to the straight, if any tee or fittings lies in between the pipe then clamp shall be placed 150 mm far away from center line of fittings at every sides. However, the same may be changed as per site conditions/as directed by EIC. Minimum gap between pipe & wall shall be 25 mm. The joints/ fittings of the GI installation shall be painted only after carrying out testing of the installation.
- Where pipe passes through the balcony and the surface is slightly elevated around the service pipe or its surrounding, sleeves to be provided to prevent the accumulation of water at that point. Where a short piece of sleeve is used around the gas pipe, the sleeve should be embedded in the concrete with a mix of mortar and the void between the pipe and sleeve filled with a suitable sealant. The sealant should be beveled such as to prevent an accumulation of water. Supply of clamps for all sizes of the GI pipes is in contractor's scope. Contractor has to take prior approval for design/types of clamps, paintings etc.
- Pipe shall preferably be entered into building above ground and remain in a ventilated location. The location for entry shall be such that it can be easily routed to the usage points by the shortest practicable route.

- For welded riser, riser length (excluding lateral tapping) shall be considered and averaged out among all the households, whereas the lateral piping shall be included only for one particular connection.
- Foundation works for service regulators includes providing and laying of Plain Cement Concrete (PCC– 1:2:4) as per attached drawing and the payment shall be done as per SOR.
- Except Service Regulator, Meter, Meter Regulator, and other free issue material as per tender terms Contractor shall procure all other materials (i.e. Pipe above size ½", All Dia of fitting size GI & MLC & Brass, clamps, SS screws, Isolation Valve above size 1" etc.) as per attached specification for installation and to the entire satisfaction of Owner/ Owner's Representative.
- The Copper/MLC service pipe installation work includes all work necessary to connect downstream of the meter (inside the kitchen) to the Customers appliances. The contractor shall be required to provide all equipment, tools and materials necessary to execute the work in an efficient and effective manner. Along with these, he will be required to provide ladders, scaffolding pipe, drills for concrete and other masonry, special drills for timber, Granite, Marble Stones and laminated surfaces, provisions for cutting glass of window inside Customers property, bending tools, sleeves to facilitate the pipe passing through floors and walls, etc. MLC/ Copper pipes & fittings shall be provided by Contractor.
- During installation, the MLC pipe is to be cut to proper length with pipe Cutter, correct the ovality of pipe end with a plastic reamer, cleaning of inside surface of pipe & outside surface of fitting, put the fitting nut over the pipe and slide the compression ring over the pipe. Make sure that the mouth of the nut and pipe face in same direction. Push the fitting insert into the pipe up to shoulder and use the spanner to tighten it up completely. Contractor ensure that jointing of Cu pipe & Fittings shall be done by skilled manpower.
- Contractor has to supply different types/sizes of approved clamps (PE 80/PVC) for fixing Copper/MLC pipes suiting to the site conditions. Contractor has to take prior approval of EIC for quality of the clamps, solder, flux, lacquer, thinner etc. The approval shall be taken for every fresh lot of clamps from EIC before installation at site.

Riser and Laterals Fabrication, Installation and Testing: -

Heavy class Galvanized Iron (GI) pipes, conforming to IS 1239- Part 1 duly Polyester Powder Coated with 70 microns' thickness and Wrought Steel fittings (Forged fittings) conforming to IS-1239 Part 2 shall be used for welded riser.

Powder and Galvanized (Zinc) coating shall be removed by light duty grinder or by any other suitable tool at both ends of riser pipe at about 25mm in length where welding is to be performed.

Pipe and required fittings shall be first coupled with threaded (NPT) joints. The threaded joints to be made using male tapered thread and female parallel thread fittings. Teflon/PTFE Tape or any other joining compound shall not be used in threaded joints for welded riser.

The Welding electrodes shall confirm to the class AWS E 6013 of reputed make such as Advani, Lincoln, ESAB or equivalent.

Welding to be carried out in line with PQR / WPS approved by GSL. Welding to be done by qualified welders approved by GSL only.

- **Meter & Meter Regulator Positions**

Meters will normally be located inside the property at approachable location. The kitchen / utility balcony is the preferred place to install the meter – thereby minimizing the length of the outlet pipe work.

The Meter installation will be preferred in open/ventilated space so as to prevent Gas accumulation and easy dispensation of gas to atmosphere in case of any smell/leakage of gas. The Meter installations will not be provided in any fixed enclosures, cabinets (below or above the slab) or confined space in the customer premises.

Meter Regulators will be installed as specification and directed by EIC.

Only pretested riser shall be erected using pulley. Pretesting shall be done with compressed air of 1.5 times of operation pressure of duration is 4 hrs.

Risers and laterals up to Isolation Valves shall be Leak tested with compressed air of 1.5 times of operation pressure of duration is 4 hrs.

Once testing is satisfactorily completed, uncoated portion (weldment) of risers and laterals shall be painted as per standard.

Installation of Meter

Installation of domestic meters with associated inlet and outlet connections (GI/Brass fittings), on the wall with approved powder coated meter brackets and angles in new & existing gas charged areas.

The contractor shall supply approved powder coated meter brackets and angle brackets. A sketch of the brackets is referred from the enclosed drawing for reference. It is required that one sample of each type of bracket is approved before the work is started.

Firmly secure the meters on the wall with good quality super hold nylon anchor Rawl Plugs, SS 304/brass screws etc. In case the Rawl Plugs are not holding then wooden blocks or other fixing arrangements like cement etc. to be used for proper grouting.

The Meter installation will be preferred in open/ventilated space so as to prevent Gas accumulation and easy dispensation of gas to atmosphere in case of any smell/leakage of gas. The Meter installations will not be provided in any fixed enclosures, cabinets (below or above the slab) or confined space in the customer premises.
The contractor shall ensure that GI installations and rubber hoses shall not be exposed to direct heat of Gas burners & chimney vents. The installation should have minimum clearance of about 0.3 meter from electric point mains & switches. Minimum distance between Appliance Valve & Gas Burners shall be 0.3 Meters. The isolation valves shall be installed after entering the customer premises/kitchen but before the meter installation.

Laterals

The lateral extending from the riser at right- angles must extend a minimum of 400 mm from the riser before passing through a wall.

Ventilation

Ventilation is provided to prevent gas leaks from causing the atmosphere to become unsafe. Ventilation shall be natural. It is not permitted to use mechanical ventilation to achieve the required ventilation levels.

Pipes Passing Through Walls

Where risers or laterals pass through walls the following requirements must be observed:
The pipe must be sleeved in a continuous non corrosive sleeve. Joints or any other part of a joint shall not be enclosed within the sleeve.
Pre-sleeved wall pieces are the preferred method for passing through walls and floors.

Painting of GI Pipes & GI Fittings

Contractor shall install powder coated GI pipes & GI Fittings in consultation with EIC. Contractor shall submit detailed procedure of powder coating for approval to EIC prior to supply of GI pipes at site work.

10.0 TESTING OF GI/MLC/ COPPER INSTALLATION

a. Only pretested riser shall be erected using pulley arrangement. Pretesting shall be done with compressed air 1.5 times of operating pressure (g) for minimum duration of 4 Hrs.
b. Risers and laterals shall be Leak tested with compressed air 1.5 times of operating pressure for minimum 4hrs after vertical installation.
c. Once testing is satisfactorily completed, uncoated portion (welded) of risers and laterals shall be painted as per painting procedure.
d. The GI/Copper/MLC installation from lateral valve to appliance valve shall be tested at a pressure of 100 mbar (g) for a holding period of 15 minutes with no pressure drop. All the joints in the installation shall be checked with soap solution.
e. The contractor shall supply the Calibrated Pressure Gauges / Manometer / Diaphragm Gauges of suitable range for testing of GI/Copper/MLC Installations ranging from 0 – 6 bars / 0-500mbar respectively. The calibration certificate shall be submitted before the start of the execution work.
f. The pressure gauges shall be calibrated from time-to-time as desired by EIC but positively once in every six months.
g. The details of testing shall be properly recorded in the GI/Copper/ MLC cards.

11.0 INSPECTION

The contractor to the entire satisfaction of EIC before proceeding further shall rectify any defect noticed during the various stages of inspection. Irrespective of the inspection, repair and approval at intermediate stages of work, contractor shall be responsible for making good any defects found during final inspection/guarantee period/defect liability period as defined in general condition of contract.

12.0 PURGING & COMMISSIONING

The rate for purging & commissioning shall be included in the GI/Cu/MLC installations.
Care shall be taken to ensure that the outlet is so located that vent gas cannot drift into buildings.
The commissioning of the GI installation should be performed as follows:

- Ensure the method of purging is such that no pockets of air are left in any part of the Customer's piping.
- Ensure the area is well ventilated and free from ignition sources.
- Continue to purge until gas is available at other appliances.
- Internal piping i.e. Meter Inlet, Diaphragm Meter & copper pipe shall be tested pneumatically & with soap solution from inside of each domestic connection.

13.0 RESTORATION

Contractor has to restore the area wherever he has carried out drilling, clamping etc. to its original condition to the satisfaction of the consumer and to ensure no passage to the premises and seepage.
If the work was carried out in Govt. Flats (Institutional areas), contractor has to restore the area according to authority specifications and obtain a NOC/Clearance certificate from the concerned authorities/RWA maintaining the flats, after completion of the work.
The restored slabs or brickwork should match the surrounding surface levels. Joint widths should match the existing conditions and be filled with a dry or wet mix of mortar.
The contractor is to ensure the restoration work is properly supervised, and that the material used is suitable for the purpose. Wherever the required standards are not achieved the contractor will be required to replace the defective reinstatement work.
Note that Payment for GI/Copper/MLC installation will be released only after satisfactory restoration and clearing of the sites of all surplus materials etc.

14.0 SUBMISSION OF FINAL RECORDS

Contractor shall submit three sets each of the following documents in hard & soft copy:

- Total list of houses in the area allotted to him giving details of connections provided & reasons where connection could not be given /completed.
- The details recorded in RFC cards of every domestic house.
- Details of houses where piping done along with materials used.
- Total material consumption report.
- Material reconciliation with respect to the materials issued.
- Test reports & calibration certificates of gauges etc.
- Any other documents/records required. Extra Piping details

15.0 Compliance to Health, Safety & Environment (HSE) High Rise:

Scope includes use of fall arrestor, Ascenders / descended, PPE, Barricades/ Warning Boards (03 No's) connected with warning board/Caution tapes in areas where piping work is in progress, Use of Safety shoes, Wacky talky, Hand gloves, Reflective jackets, Hard hats (helmets), eye and ear safety equipment, Fire extinguishers and as per the detailed scope of work. Contractor shall also prepare and submit duly certified Safety check list signed by TPIA/GSL.
This set-up is applicable for as per work at height standard and above including high rise.

ANNEXURE # 1			
TOOLS & EQUIPMENTS TO BE PROVIDED BY THE CONTRACTOR FOR GI/Copper/ MLC work			
S.No.	**Equipment Details**	**Per Technician**	**Per Team**
1	Pipe Wrench 250 mm	1	4
2	Pipe Wrench 350 mm	1	4
3	Pipe Wrench 450 mm		2
4	Adjustable Spanner 50 mm		4
5	Adjustable Spanner 150 mm	1	2
6	Adjustable Spanner 250 mm	1	2
7	Set of combination spanner 3/16”- 11/4”AF	1	1
8	Set of combination spanners 5mm-30mm	1	1
9	Large tool boxes	1	2
10	Set flat – headed screw drivers	1	2
11	Set Philips screw drivers	1	2
12	Small hammer	1	2
13	Combination pliers/mole grips	1	2
14	Set of files	1	2
15	Drill bits for 1”pipe		2
16	Stocks and dies for NPT threading ½”, ¾”, GI pipe		3
	Soldering iron		2
	Copper Pipe Bending Machine		
18	Hand drill 3/8”chuck		2
19	Portable electric drill 240v, heavy duty		2
20	Spare blades	4	4
21	Batter Powered torches	2	2
22	Measuring Tape 30m	1	2
23	Wire Brush	1	2
24	Portable Pipe vice & tripod		2
25	Set steel twist drills 0.5-2.0mm (for applianceconversion)		1
26	Set steel twist drill 1mm-10mm		2
27	Set masonry drills 1mm-10mm	1	2
28	Graphite based grease	As required	As required
29	Lubricating Oil	As required	As required
30	Hand Cleaner	As required	As required
31	Copper pipe cutter 12mm		4
32	GI Pipe Cutters ½” Gas Detection Equipment Power Generator 2.5 KVA Pressure Gauge (0- 10 bar) Pressure Gauge (0-4 bar) Diaphragm Gauge (0-400m bar) Manometer (0-150m bar)	As required	2
		2	4
		2	8
		1	2
		1	1
33	Automatic Thread Cutting Machine		2
34	GI Pipe Cutter		2

35	MLC Pipe Cutter		4
36	Welding Equipment	1 set per site	1 set per site
37	Full Body safety harness like PETZL or equivlent	as required	as required
38	Motorized Suspended Platform	as required	as required

ANNEXURE-2
TIME SCHEDULE

Laying of underground PE Pipelines & aboveground GI Installation, Providing Domestic And Commercial Connection etc. as detailed in SOR for CNG & City Gas Distribution Network in UK GA.	ARC period: Two Year from date of LOA. Individual WO completion time : 02 Years ARC +01 Year Extendable from date of LOI/WO. Mobilization Period: 7 days from LOI or EIC Instruction whichever is Later.

Note:
1) The time of completion shall be reckoned from the date of award of contract, which shall be the date of issue of letter/Fax of Intent.
2) The time indicated is for completing all the works in all respects as per specifications, codes, drawings and instructions of Engineer-in-charge.
3) It should be noted that the period of construction given above includes preparation of drawings (if required), procurement and supply of materials including their inspection & testing, mobilization at site, construction, laying, fabrication, erection inspection, testing, rectification (if any), pre-commissioning, commissioning and demobilization works etc. complete in all respects to the entire satisfaction of Owner/ Engineer-in-charge.

ANNEXURE-3
MEASUREMENT OF WORK

GENERAL
The mode of measurement shall be as mentioned in relevant standard specification incorporated in the Bidding Document. Any other mode of measurements not covered in above specifications shall be followed in accordance with relevant BIS codes/ Schedule of Rates/ Specifications etc. and/ or as decided by Engineer-in-charge.
Payment will be made on the basis of joint measurements taken by Contractor and certified by Engineer-in-charge. Measurement shall be based on "Approved for Construction" drawings, to be the extent that the work conforms to the drawings and details are adequate.
Wherever work is executed based on instructions of Engineer-in-charge or details are not adequate in the drawings, physical measurements shall be taken by Contractor in the presence of Engineer-in-charge.
Measurements of weights shall be in metric tonnes corrected to the nearest Kilogram. Linear measurements shall be in meters corrected to the nearest centimetres.
The weights mentioned in the drawing or shipping list shall be the basis for payment. If mountings for panels etc. are packed separately, their erection weights shall include all mountings.
Welds, bolts, nuts, washers etc. shall not be measured. Rates for structural steel work shall be deemed to include the same.
No other payment either for temporary works connected with this Contractor for any other item such as weld, shims, packing plates etc. shall be made. Such items shall be deemed to have been included for in the rates quoted.
Measurement will be made for various items under schedule of rates on the following basis as indicated in the unit column.
i) Weight : MT or Kg
ii) Length
iii) Number : No.
iv) Volume : Cu.M
v) Area : Sq.M or Km

All measurements shall be in metric system. All the works in progress will be jointly measured by the representative of the Engineer-in-charge and the contractor's authorised agent progressively. Such measurements will be either recorded/typed by the contractor in the numbered measurement sheets to be supplied by Engineer-in-Charge / Owner or computerized by Contractor themselves. The measurements shall be signed in token of acceptance by the contractor or his authorized representative. The contractor shall submit the bill in the approved proforma in quintriplicate to the Engineer-in-Charge of the work.

PIPING

Length of pipes shall be measured along the curvilinear centre of the pipelines laid/ installed and shall include all types of fittings, bends etc. but excluding all types of valves. Length of valves shall be excluded from piping measurement and shall be considered on number basis.

FOR PIPELINE CROSSINGS BY HDD / BORING / MOLING METHOD

Payment shall be made as specified in SOR, PJS and Technical Specification.

ANNEXURE-4

1. TERMS OF PAYMENT

Pending completion of the whole works, provisional progressive payments for the part of work executed by the contractor shall be made by Owner on the basis of said work completed and certified by the Engineer-in-Charge as per the agreed milestone payment schedule and the percentage break-ups given below.

Contractor shall submit his invoices to the Engineer-in-Charge fortnightly in the manner as instructed by Owner. Each invoice will be supported by documentation acceptable to Owner and certified by the Engineer-in-Charge. Payments made by owner to the contractor for any part of the work shall not deem that the Owner has accepted the work.

The payment terms for execution of work shall be as follows:

The contractor shall raise the RA bill and payment shall be made on certification of bill by Engineer-in-Charge as follow:-

MDPE and related work

1) 50% on completion of laying in continuous stretches of minimum 500 mtr. Including jointing of pipeline, Backfilling and compaction for the complete stretch as per scope of work and on submission of DPR/ WPR and graphs.

2) 20% on testing of completed network and submission of "Ás Built Drawing" subject to installation of permanent markers in the network area.

3) 20% on commission (gas charging) of the network subject to installation of valve chambers.

4) Balance 10% on work order closure and submission of all documents as per contract and reconciliation of GSL issued material.

GI and related work

1) 70% after installation of GI / Copper pipes including all fittings, Regulators, Valves, Clamping and testing of installation.

2) 20% after cementing of holes, painting and commissioning of GI, Copper installation & submission of RFC and JMR documents.

3) Balance 10% on work order closure and submission of all documents as per contract and reconciliation of GSL issued material.

Liaisoning

1) 90% payment for the actual length of network laid (for which permission letter from statuary bodies is obtained by Contractor and submitted to GSL).

2) Balance 10% on work order closure and submission of all documents as per contract and reconciliation of GSL issued material.

Restoration Work/ Other work (Not Covered above)

1) 70% after completion of restoration and certification by TPIA nominated by GSL.

2) 20% after obtaining NOC from respective local authority/ Third party agencies designated by land owing agencies etc.

3) Balance 10% on work order closure and submission of all documents as per contract and reconciliation of GSL issued material.

2. PRICE REDUCTION SCHEDULE (PRS)

In case the Supplier / Contractor fails to deliver any or all the goods to perform the services within the contractual delivery period(s) specified in the agreement for the reasons not solely attributable to the Purchaser and the Purchaser shall, without prejudice to its other remedies under the agreement, deduct a sum @ ½ % (Half Per Cent) of the value of the supply per week or part thereof for delay in supplies subject to a maximum ceiling of 5 % of respective order value.

- All sums payable by way of compensation shall be considered as reasonable compensation without reference to the actual loss or damage, which shall have been sustained.

3. CONTRACT-CUM-EQUIPMNET PERFORMANCE BANK GUARANTEE

Within thirty (30) Days of receipt of the Letter of Acceptance / Notification of Award, the successful bidder shall furnish to the Purchaser the Contract-Cum-Equipment Performance Bank Guarantee (CPBG) of 5% of total order value / contract value (Total order value will be inclusive of all taxes, duties and charges towards transportation, unloading etc. up to GSL site/store).

Contract Performance Bank Guarantee shall be confirmed by bidder's bank, any confirmation charges shall be borne by bidder.

All bank guarantees will also have 30 days claim period beyond expiry date.

The proceeds of the Contract-Cum-Equipment Performance Bank Guarantee shall be payable to the Purchaser as compensation for any loss or damage resulting from the Supplier's failure to complete its obligations under the Agreement.

The Contract-Cum-Equipment Performance Bank Guarantee shall be denominated in the currency of the Contract/ Letter of award.

A bank guarantee issued by a nationalized bank or a scheduled Indian bank or by the branch of a reputable international bank located in India and registered with RBI.

The Contract Performance Guarantee will be discharged by the Owner and returned to the Supplier not later than thirty (30) days following the date of completion of all the Supplier's performance obligations under the Contract, including any warranty.

4. PENALTY

- Contractor shall complete all the above activities within 30 days from the date of FOI. On failure to fulfil the above requirement, contractor shall be liable for a penalty of Rs. 1000/- per day.

- The contractor shall adhere consistently to all provisions of HSE. In case of non- compliance or continuous failure the owner/ owner representative may impose stoppage of work without any cost time implication to owner. A penalty amount of Rs 1000/-shall be imposed on the contractor for the serious HSE violation.

- Three times of this penalty may count as a serious violation of contractor in line with HSE. This may affect to new work assignment/award of contractor.

- DMA shall not make any registration from the areas not declared / specified by GASONET / not allotted to DMA. In case it is observed that DMA has done the registration from the areas not specified by GASONET then a penalty of Rs. 2,000/- per colony/area shall be levied on DMA. Further any

liability (legal, financial or otherwise) arising out of this shall be DMA's sole responsibility. DMA will be required to get permission from designated officer of GASONET before starting process of registration in any area.

ANNEXURE-5
LIST OF FREE ISSUE MATERIAL BY GASONET.

Sl. No.	Material Description
1	MDPE Pipe (20mm to 125mm)
2	MDPE fittings (All),Transition fittings & PE valve
3	GI Pipe only 1/2 Inch
4	Domestic Meter & Regulator
5	MLC Pipe
6	Appliance & Isolation Valves (Size 1/2" and 1")
7	Brass Adaptors
8	PD meter
9	Service Regulator
10	HDPE Pipe and Fitting of Telecom
11	MRS & DRS

LIST OF RECOMMENDED VENDORS FOR BOUGHT OUT ITEMS
MECHANICAL & FIRE FIGHTING EQUIPMENT

i) GI Pipe:
1. Swastik Pipe Ltd.
2. Jindal Industries Ltd.
3. Vishal Pipes Ltd.
4. Indus Tubes Ltd.
5. Advance Steel Tubes Ltd.
6. Goodluck India Ltd.
7. Surya Roshni Limited
8. APL Apollo Tubes Limited
9. Jindal Pipes Limited
10. M/s. Ravindra Tubes Ltd.
7. M/s Unique Pipe Fittings Co.
9. M/s. Vishal Pipe Limited **ii)**

Casting GI Fittings
1. Sarin Industries Ltd. 8. M/s. Jay Corporation Pvt. Ltd.
2. Jupiter Metal Industries Ltd.
3. Jainsons Industries Ltd.
4. Jinan Meide Casting Co. Ltd.
5. Green Malleable Pvt. Ltd. 6. M/s. MG Industries

v) MLC Pipe & as sociated f i t t ings
8. M/s. KITEC INDUSTRIES (INDIA) PVT. LTD.
9. M/s. JINDAL PE-X TUBES PRIVATE LIMITED
10. M/s. Nexgen Composite Industries

vi) Brass Fittings
a. Chandan Enterprises
b. Paras Industries Ltd.
c. Chokhawala Distributors- Brass Adaptor
d. Saumya Electricals Industries
e. Umesh Enterprises
f. M/s. Astro Brass components
g. M/s. Jay Corporation Pvt. Ltd.

vii) Steel Re-inforced Rubber Hose (Type-4)
1. Super Seal Flexible Hose Ltd.
2. Suraksha Products Pvt. Ltd.
3. Vansh Industries
4. T & L Gases

.

SECTION – V

OTHER FORMS & FORMATS

IT IS MANDATORY TO FILL IN ALL THIS FORMS AND SUBMIT THROUGH EMAIL

LIST OF FORMS & FORMAT

Form No.	Description
F-1	BIDDER'S GENERAL INFORMATION
F-2	BID FORM
F-3	LIST OF ENCLOSURES
F-4	PROFORMA OF "BANK GUARANTEE" FOR "EARNEST MONEY/ BID SECURITY"
F-4A	PROFORMA OF "LETTER OF CREDIT" FOR "EARNEST MONEY/ BID SECURITY"
F-5	LETTER OF AUTHORITY
F-6	NO DEVIATION CONFIRMATION
F-7	DECLARATION REGARDING HOLIDAY/ BANNING AND LIQUIDATION, COURT RECEIVERSHIP ETC.
F-8	CERTIFICATE FOR NON-INVOLVEMENT OF GOVT. OF INDIA
F-9	PROFORMA OF "BANK GUARANTEE" FOR "CONTRACT PERFORMANCE SECURITY/ SECURITY DEPOSIT"
F-10	AGREED TERMS & CONDITIONS
F-11	ACKNOWLEDGEMENT CUM CONSENT LETTER
F-12	UNDERTAKING ON LETTERHEAD
F-13	BIDDER'S EXPERIENCE
F-14	CHECKLIST
F-15	FORMAT FOR CERTIFICATE FOR BANK IF BIDDER'S WORKING CAPITAL IS INADEQUATE
F-16	FORMAT FOR CHARTERED ACCOUNTANT CERTIFICATE FOR FINANCIAL CAPABILITY OF THE BIDDER
F-18	BIDDER'S QUERIES FOR THE PRE-BID MEETING
F-19	E-BANKING FORMAT
F-20	CONFIRMATION UNDER MSMED ACT 2006
F-21	INDEMNITY BOND
F-22	UNDERTAKING FOR EMD

F-1

BIDDER'S GENERAL INFORMATION

To,
GASONET SERVICES (RJ) LIMITED
Corporate Office: 1019-1020, World Trade Tower Sector - 16, Noida – 201301, Uttar Pradesh

SUBJECT: MDPE LAYING & ASSOCIATED WORKS FOR (RJ) GA
TENDER NO.: GASONET/C&P/GSL/PE PNG/RJ/2026-2027/32

1	Bidder Name (With Contact Person Name & Details)	
2	Status of Firm	Proprietorship Firm/ Partnership Firm/ Limited/ Others If Others Specify: [Enclose certificate of Registration]
3	Name of Proprietor/ Partners/ Directors of the firm/ company	
4	Number of Years in Operation	
5	Address of Registered Office: * In the case of a Partnership firm, enclose a letter mentioning the current address of the firm and the full names and current addresses of all the firm's partners.	
		City:
		District:
		State:
		Pin/ ZIP:
6	Operational Address [if different from above]	
		City:
		~~District:~~
		State:
		PIN/ ZIP
7	Telephone Number [Mobile & Landline]	~~(Country Code) (Area Code) (Telephone No.)~~
8	E-mail address	
9	Website	
10	Fax Number:	(Country Code) (Area Code) (Telephone No.)
11	ISO Certification, if any	{If yes, please furnish details}
12	Bid Currency	
13	Banker's Name	
14	Branch	
15	Bank account number	
16	PAN No.	[Enclose a copy of PAN Card]
17	GST Registration No.	[Enclose copy of GST Registration Certificate]
18	EPF Registration No.	[Enclose copy of EPF Registration Certificate]
19	ESI code No.	

		[Enclose copy of relevant document]
20	We (Bidder) are covered under the definition of section 2 (n) of the MSMED Act.	Yes/ No *(If the response to the above is 'Yes", Bidder is to provide Purchaser with a copy of the Entrepreneur's Memorandum (EM) filled with the authority specified by the respective State Government)*
21	Whether Micro/ Small/ Medium Enterprise	(Bidder to submit documents as specified by ITB)
22	Type of Entity	Corporate/ Non-Corporate (As per GST Act). (In the case of a Non-Corporate Entity, the bidder will submit documentary evidence for the same).

NOTE:

1) **ANY DOCUMENTARY EVIDENCE IN SUPPORT OF ABOVE TO BE AUTHENTICATED/ ATTESTED BY NOTARY PUBLIC**

2) **DOCUMENTARY PROOF AGAINST MSME CERTIFICATION MUST BE DULY CERTIFIED BY CHARTERED ACCOUNTANT AND NOTARY PUBLIC WITH LEGIBLE STAMP**

Place:
Date:

[Signature of Authorized Signatory of Bidder]
Name:
Designation:
Seal:

F-2

BID FORM

To,
GASONET SERVICES (RJ) LIMITED
Corporate Office: 1019-1020, World Trade Tower Sector - 16, Noida – 201301, Uttar Pradesh

SUBJECT: MDPE LAYING & ASSOCIATED WORKS FOR (RJ) GA
TENDER NO.: GASONET/C&P/GSL/PE PNG/RJ/2026-2027/32

Dear Sir,

After examining/reviewing the Bidding Documents for the tender of " _____ including "Specifications & Scope of Work", "General Purchase Condition [GPC]", "Special Conditions of Contract [SCC]" and "Schedule of Rates [SOR]", etc. the receipt of which is as a result of this duly acknowledged, we, the undersigned, pleased to offer to execute the whole part of the job and in conformity with the said Bid Documents, including Addenda / Corrigenda Nos. _____.

We confirm that this Bid is valid for a period of "**three [03] months**" from the date of opening of the "Techno-Commercial / Un-priced Bid", and it shall remain binding upon us. It may be accepted at any time before the expiry of that period.

If our Bid is accepted, we will provide the "Contract Performance Security / Security Deposit" equal to **"5% of Annualized Contract/ Purchase order value (excluding taxes & duties)** " or as mentioned in the Tender Document for the due performance within "Thirty [30] days" of such Award.

Until a final Agreement/ Letter of Award is prepared and executed, the tender document (including addenda/ corrigenda) and the "Notification of Award" shall constitute a binding Agreement.

We understand that the Bidding Document is not exhaustive, and any action and activity not mentioned in Bidding Documents but may be inferred to be included to meet the intent of the Bidding Documents shall be deemed to be mentioned in Bidding Documents unless otherwise specifically excluded. We confirm that we will perform for the fulfilment of the Agreement and completeness of the Work in all respects within the time frame and agreed price.

We understand that you are not bound to accept the lowest price or any bid you may receive.

Place:
Date:

[Signature of Authorized Signatory of Bidder]
Name:
Designation:
Seal:

Duly authorized to sign Bid for and on behalf of _____

[Signature of Witness]
Name of Witness:
Address:

F-3

LIST OF ENCLOSURES

To,
GASONET SERVICES (RJ) LIMITED
Corporate Office: 1019-
1020, World Trade Tower
Sector - 16, Noida – 201301, Uttar Pradesh

SUBJECT: MDPE LAYING & ASSOCIATED WORKS FOR (RJ) GA
TENDER NO.: GASONET/C&P/GSL/PE PNG/RJ/2026-2027/32

Dear Sir,

We are enclosing the following documents as part of the Bid:

1. Power of Attorney of the signatory to the Bidding Document.
2. Document showing annual turnover for the last three years, such as annual reports, profit and loss account, net worth, etc., along with information as sought in enclosed format F-16. (If applicable)
3. Document showing Financial Situation Information as sought in enclosed format F-16 (If applicable)
4. Copy of Bidding Documents along with addendum/ corrigendum duly signed and sealed on each page, in token of confirmation that Bid Documents are considered in full while preparing the bid and in case of award, work will be executed following the provisions detailed in Bid Documents.
5. Documentary Evidence shows the Bidder's claim of meeting Technical Criteria as Section II mentions.
6. Bid Security / EMD
7. Tender Fee (If applicable)
8. Duly certified document from chartered engineer and or chartered accountant.

Place:
Date:

[Signature of Authorized Signatory of Bidder]
Name:
Designation:
Seal:

F-4

PROFORMA OF "BANK GUARANTEE" FOR "EARNEST MONEY / BID SECURITY"

(To be stamped following the Stamp Act)

Ref..... **Bank Guarantee No.....**
Date.....

To,
GASONET SERVICES (RJ) LIMITED
Corporate Office: 1019-1020, World Trade Tower Sector - 16, Noida – 201301, Uttar Pradesh

SUBJECT: MDPE LAYING & ASSOCIATED WORKS FOR (RJ) GA
TENDER NO.: GASONET/C&P/GSL/PE PNG/RJ/2026-2027/32

Following Letter Inviting Tender under your reference No _____ M/s. _____ having their Registered / Head Office at _____(from now on called the Tenderer), wish to participate in the said tender for _____.

As an irrevocable Bank Guarantee against Earnest Money for the amount of _____is required to be submitted by the Tenderer as a condition precedent for participation in the said tender, which amount is liable to be forfeited on the happening of any contingencies mentioned in the Tender Document.

We, the _____ Bank at _____ having our Head Office _____(Local Address), guarantee and undertake to pay immediately on demand without any recourse to the tenderers by Gasonet, the amount _____without any reservation, protest, demur and recourse. Any such demand made by GASONET shall be conclusive and binding on us, irrespective of any dispute or difference raised by the Tenderer.

This guarantee shall be irrevocable and shall remain valid up to _____[this date should be two (02) months beyond the validity of the bid]. If any further extension of this guarantee is required, the same shall be extended to such required period on receiving instructions from M/s. _____on whose behalf this guarantee is issued.

In witness of which the Bank, through its authorized officer, has set its hand and stamp on this _____day of _____200 __at _____

WITNESS:

(SIGNATURE)
(NAME)

(SIGNATURE)
(NAME)
Designation with Bank Stamp

(OFFICIAL ADDRESS)

Attorney as per Power of Attorney No.: _____
Date: _____

INSTRUCTIONS FOR FURNISHING "BID SECURITY/ EARNEST MONEY" BY "BANK GUARANTEE"

1. The Bank Guarantee by Bidders will be given on non-judicial stamp paper as per "Stamp Duty" applicable. The non-judicial stamp paper should be in the name of the issuing Bank. In the case of a foreign Bank, the said Bank's Guarantee is to be issued by its correspondent Bank in India on the requisite non-judicial stamp paper.

2. The expiry date should be arrived at following "ITB: Clause-15.1".

3. The Bank Guarantee by bidders will be given from the Bank as specified in "ITB".

4. A letter from the issuing Bank of the requisite Bank Guarantee confirming that said Bank Guarantee/ all future communication relating to the Bank Guarantee shall be forwarded to the Employer at its address as mentioned at ITB.

5. Bidders must indicate the full postal address of the bank along with the bank's e-mail/fax/phone number from where the earnest money bond has been issued.

6. Suppose a commercial Bank issues a Bank Guarantee. In that case, a letter to the Employer confirming its net worth is more than Rs. 1,000,000,000.00 [Rupees One Hundred Crores] or equivalent, along with documentary evidence.

.....

F-4A

PROFORMA OF "LETTER OF CREDIT" FOR "EARNEST MONEY / BID SECURITY

To,

GASONET SERVICES (RJ) LIMITED
Corporate Office: 1019-1020, World Trade
Tower Sector - 16, Noida – 201301, Uttar
Pradesh
SUBJECT: MDPE LAYING & ASSOCIATED WORKS FOR (RJ) GA
TENDER NO.: GASONET/C&P/GSL/PE PNG/RJ/2026-2027/32

Irrevocable and confirmed Letter of Credit No.....Amount: Rs. ————

Validity of this Irrevocable .....(In India)
Letter of Credit.....(2 months beyond the validity of Offer)

Dear Sir,

1. You are, as a result of this, authorized to draw on.....(Name of Applicant with full address) for a sum not exceeding..... available by your demand letter (draft) on them at sight drawn for Rs .....accompanied by a certificate by Gasonet, with the Tender No. Duly incorporated therein that one or more of the following conditions has/have occurred, specifying the occurred conditions(s):

(i) The Bidder withdraws its Bid during the Bid validity period or any extension duly agreed upon by the Bidder.

(ii) The Bidder varies or modifies its Bid in a manner not acceptable to Gasonet during the bid validity period or any extension duly agreed by the Bidder.

(iii) The Bidder, having been notified of the acceptance of its Bids,
   (a) Fails or refuses to execute the Supply Order/ Contract
   (b) Fails or refuses to furnish the Contract Performance Security within 30 days before the expiry of Bid Security.
   (c) Fails to accept arithmetic corrections as per tender conditions.

2. This Irrevocable Letter of Credit has been established towards Bid Security Tender No. ..... for .....(Item)

3. We hereby guarantee to protect the Drawers, Endorsers and bonafide holders from any consequences arising in the event of the non-acceptance or non-payment of the Demand Letter (draft) in accordance with the terms of this credit.

4. This Credit is issued subject to the Uniform Customs and Practices for Documentary Credits (1993 Revised) International Chamber of Commerce brochure No. 500.

5. Please obtain reimbursement as under: .....

6. All foreign as well as Indian bank charges will be on the account of M/s.....(Applicant)

FOR .....

Authorised Signature (Original Bank) **Counter Signature**

F-5

LETTER OF AUTHORITY

[Pro forma for Letter of Authority for Attending Subsequent 'Negotiations'/ 'Pre-tendering Conferences' / 'Un-priced Bid Opening' / 'Price Bid Opening']

Ref: Date:

To,
GASONET SERVICES (RJ) LIMITED
Corporate Office: 1019-1020, World Trade Tower Sector - 16, Noida – 201301, Uttar Pradesh
SUBJECT: MDPE LAYING & ASSOCIATED WORKS FOR (RJ) GA
TENDER NO.: GASONET/C&P/GSL/PE PNG/RJ/2026-2027/32

Dear Sir,

I/We, _____ now authorize the following representative(s) for attending any 'Negotiations' / 'Conferences [Pre-tendering Conference]', 'Un-priced Bid Opening', 'Price Bid Opening' and for any subsequent correspondence/ communication against the above Bidding Documents:

[1] Name & Designation_____Signature_____
Phone/Cell:
Fax:
E-mail: ……@…….

[2] Name & Designation _____Signature _____
Phone/Cell:
Fax:
E-mail: ……@……

We confirm that we shall be bound by all commitments made by the aforementioned authorised representative(s).

Yours faithfully,

Place:
Date:

[Signature of Authorized Signatory of Bidder]
Name:
Designation:
Seal:

Note: This "Letter of Authority" should be on the "letterhead" of the Firm / Bidder and signed by a competent person with the 'Power of Attorney' to bind the Bidder. No more than 'two [02] persons per Bidder' are permitted to attend "Techno-commercial / Un-priced" & "Price Bid" Openings.

F-6

"NO DEVIATION" CONFIRMATION

To,
GASONET SERVICES (RJ) LIMITED
Corporate Office: 1019-1020, World Trade Tower Sector - 16, Noida – 201301, Uttar Pradesh
SUBJECT: MDPE LAYING & ASSOCIATED WORKS FOR (RJ) GA
TENDER NO.: GASONET/C&P/GSL/PE PNG/RJ/2026-2027/32

Dear Sir,

We understand that any 'deviation/exception' in any form may result in rejecting the Bid. Therefore, we certify that we have not taken any 'exception/deviation' anywhere in the Bid and agree that if any 'deviation/exception' is mentioned or noticed, our Bid may be rejected.

Place:
Date:

[Signature of Authorized Signatory of Bidder]
Name:
Designation:
Seal:

To be submitted on the bidder's Letter Head

F-7

DECLARATION REGARDING HOLIDAY/ BANNING AND LIQUIDATION, COURT RECEIVERSHIP

To,
GASONET SERVICES (RJ) LIMITED
Corporate Office: 1019-1020, World Trade Tower Sector - 16, Noida – 201301, Uttar Pradesh
SUBJECT: MDPE LAYING & ASSOCIATED WORKS FOR (RJ) GA
TENDER NO.: GASONET/C&P/GSL/PE PNG/RJ/2026-2027/32

Dear Sir,

We now confirm that we are not on 'Holiday' by GASONET or Public Sector Project Management Consultant (like EIL, Mecon only due to "poor performance" or "corrupt and fraudulent practices") or banned by the Government department/ Public Sector on the due date of submission of bid.

Further, we confirm that neither we nor our allied agency/ (ies) (as defined in the Procedure for Action in case of Corrupt/ Fraudulent/ Collusive/ Coercive Practices) are on the banning list of GASONET or the Ministry of Petroleum and Natural Gas.

We also confirm that we are not under any liquidation, court receivership, similar proceedings, or 'bankruptcy'.

In case it comes to the notice of GASONET that the bidder has given the wrong declaration in this regard, the same shall be dealt with as 'fraudulent practices' and action shall be initiated as per the Procedure for action in case of Corrupt/ Fraudulent/ Collusive/ Coercive Practices.

Further, we confirm that if there is any change in the declaration's status before the contract's award, we will promptly inform GASONET.

Place:
Date:

[Signature of Authorized Signatory of Bidder]
Name:
Designation:
Seal:

To be submitted on the bidder's Letter Head

F-8

CERTIFICATE FOR NON-INVOLMENT OF GOVT. OF INDIA

To,
GASONET SERVICES (RJ) LIMITED
Corporate Office: 1019-1020, World Trade Tower Sector - 16, Noida – 201301, Uttar Pradesh
SUBJECT: MDPE LAYING & ASSOCIATED WORKS FOR (RJ) GA
TENDER NO.: GASONET/C&P/GSL/PE PNG/RJ/2026-2027/32

Dear Sir,

Suppose we become a successful Bidder, and according to the provisions of the Bidding Documents, an award is given to us for the tender for "_____". In that case, the following Certificate shall be automatically enforceable:

"We agree and acknowledge that the Employer enters into the Agreement solely on its behalf and not on behalf of any other person or entity. In particular, it is expressly understood & agreed that the Government of India is not a party to the Agreement and has no liabilities, obligations or rights. It is expressly understood and agreed that the Employer is authorized to enter into the Agreement solely on its behalf under the applicable laws of India. We expressly agree, acknowledge and understand that the Employer is not an agent, representative or delegate of the Government of India. It is further understood and agreed that the Government of India is not and shall not be liable for any acts, omissions, commissions, breaches or other wrongs arising out of the Agreement. Accordingly, we at this moment expressly waive, release and forego any actions or claims, including cross-claims, VIP claims or counter-claims against the Government of India arising out of the Agreement and covenants not to sue the Government of India as to any manner, claim, cause of action or things whatsoever arising of or under the Agreement."

Place:
Date:

[Signature of Authorized Signatory of Bidder]
Name:
Designation:
Seal:

F-9

PROFORMA OF "BANK GUARANTEES" FOR "CONTRACT PERFORMANCE SECURITY / SECURITY DEPOSIT"

(ON NON-JUDICIAL STAMP PAPER OF APPROPRIATE VALUE)

To,
GASONET SERVICES (UK) LIMITED
Corporate Office: 1019-
1020, World Trade Tower
Sector - 16, Noida – 201301, Uttar Pradesh

PERFORMANCE GUARANTEE No.:
Dear Sir(s),

M/s. _____, having registered office at _____ (after this called the "contractor" which expression shall, wherever the context so requires, include its successors and assignees) have been awarded the work of _____ vide LOA/FOA No. _____dated_____ for **GASONET SERVICES (UK) LIMITED,** Corporate Office: 1019-1020, World Trade Tower, Sector - 16, Noida – 201301, Uttar Pradesh.

The Contract conditions provide that the CONTRACTOR shall pay a sum of Rs. _____(Rupees _____) as full Contract Performance Guarantee in the form therein mentioned. The form of payment of Contract Performance Guarantee includes a guarantee executed by Nationalized Bank, undertaking full responsibility to indemnify GASONET SERVICES (UK) LIMITED in case of default.

The said _____ has approached us, and at their request and in consideration of the premises, we _____, having our office at _____, have agreed to give such guarantee as from now on mentioned.

1. We _____ at this moment undertake to give the irrevocable & unconditional guarantee to you that if M/s shall make a default. _____In performing any of the terms and conditions of the tender or in payment of any money payable to GASONET, we shall, on first demand, pay without demur, contest, protest and/ or without any recourse to the contractor to you in such manner as you may direct the said amount of Rupees _____only or such portion thereof not exceeding the declared sum as you may require from time to time.

2. You will have the full liberty, without reference to us and without affecting this guarantee, to postpone for any time or from time to time the exercise of any of the powers and rights conferred on you under the contract with the said _____ and to enforce or to forbear from endorsing any powers or rights or because of time being given to the said _____and such postponement forbearance would not have the effect of releasing the bank from its obligation under this debt.

3. Your right to recover the said sum of Rs. _____(Rupees _____) from us in the manner aforesaid will not be affected or suspended because the said M/s have

raised any dispute or disputes. _____and/or that any dispute or disputes are pending before any officer, tribunal or court and any demand made by you in the bank shall be conclusive and binding. The bank shall not be released of its obligations under these presents by any exercise by you of its liberty concerning matter aforesaid or any of their or by reason or any other act of omission our commission on your part or any other indulgence shown by you or by any other matter or changed what so ever which under law would, but for this provision, have the effect of releasing the bank.

4. The guarantee herein contained shall not be determined or affected by the liquidation or winding up dissolution or changes of the constitution or insolvency of the said contractor but shall in all respects and for all purposes be binding and operative until payment of all money due to you in respect of such liabilities is paid.

5. This guarantee shall be irrevocable and shall remain valid up to _____(this date should be 30 days after the expiry of the defect liability period). The bank undertakes not to revoke this guarantee during its currency without your previous consent and further agrees that the warranty shall continue to be enforceable until GASONET discharges it in writing. However, if for any reason, the contractor is unable to complete the work within the period stipulated in the contract and in case of extension of the date of completion resulting in an extension of the defect liability period of the contract and the contractor fails to perform the work fully, the bank at this moment agrees further to extend this guarantee at the instance of the contractor till may be determined by the owner. If any further extension of this guarantee is required, the same shall be extended to such required period on receiving instruction from M/s. _____ (contractor) on whose behalf this guarantee is issued.

6. The bank also agrees that GASONET, at its option, shall be entitled to enforce this Guarantee against the bank (as principal debtor) in the first instant, without proceeding against the supplier/ contractor and notwithstanding any security or the other guarantee that GASONET may have about the supplier's/ contractor's liabilities.

7. The amount under the Bank guarantees is payable immediately without any delay by the Bank upon the written demand raised by GASONET. Any dispute arising out of or concerning the said Bank Guarantee shall be subject to the jurisdiction of courts at Ahmedabad.

8. Therefore, we, as a result of this, affirm that we are guarantors and responsible to you on behalf of the Contractor up to a total amount of _____(amount of guarantees in words and figures). We undertake to pay you, upon your first written demand declaring the Contractor to be in default under the contract and without caveat or argument, any sum or sums within the limits of (amounts of guarantee) as aforesaid, without your needing to prove or show grounds or reasons for your demand or the sum specified therein.

9. We have the power to issue this guarantee in your favour under the Memorandum and Articles of Association, and the undersigned has full authority to do so under the Power of Attorney, dated _____, granted to him by the Bank.

Yours faithfully,
Bank by its Constituted Attorney

Signature of a person duly
Authorized to sign on behalf of the Bank

INSTRUCTIONS FOR FURNISHING "CONTRACT PERFORMANCE SECURITY / SECURITY DEPOSIT" BY "BANK GUARANTEE"

1. The Bank Guarantee by successful Bidder(s) will be given on non-judicial stamp paper as per 'stamp duty' applicable. The non-judicial stamp paper should be in the name of the issuing bank. In the case of a foreign bank, the said Bank Guarantee is to be issued by its correspondent bank in India on requisite non-judicial stamp paper, and the place of Bid is to be considered Delhi.
2. The Bank Guarantee by Bidders will be given from the bank as specified in the Tender.
3. A letter from the issuing bank of the requisite Bank Guarantee confirming that said Bank Guarantee and all future communication relating to the Bank Guarantee shall be forwarded to the Employer.
4. If a commercial bank issues a Bank Guarantee, then a letter to the Employer and copy to the Consultant (if applicable) confirming its net worth is more than Rs.100,00,00,000.00 [Rupees One Hundred Crores] or its equivalent in foreign currency along with documentary evidence.

F-10

AGREED TERMS & CONDITION

To,
GASONET SERVICES (RJ) LIMITED
Corporate Office: 1019-1020, World Trade Tower Sector - 16, Noida – 201301, Uttar Pradesh
SUBJECT: MDPE LAYING & ASSOCIATED WORKS FOR (RJ) GA
TENDER NO.: GASONET/C&P/GSL/PE PNG/RJ/2026-2027/32

This Questionnaire duly filled in, signed & stamped must form part of the Bidder's Bid and should be returned along with the Un-priced Bid. Clauses confirmed hereunder need not be repeated in the Bid.

Sl. No.	DESCRIPTION	BIDDER'S CONFIRMATION
1.	Bidder's name and address	
2.	Please confirm the currency of the quoted prices is in Indian Rupees.	
3.	Confirm quoted prices will remain firm and fixed till the complete execution of the order.	
4.	Rate of applicable Goods and Services Tax	GST .....%
5.	i) Confirm acceptance of relevant Terms of Payment specified in the Bid Document. ii) In case of delay, the bills shall be submitted after deducting the price reduction due to delay.	
6.	Confirm that the Contract Performance Bank Guarantee will be furnished as per the Bid Document.	
7.	Confirm that Contract Performance Bank Guarantee shall be from any Indian scheduled bank or a branch of an International bank in India and registered with the Reserve Bank of India as a scheduled foreign bank. However, in case of bank guarantees from banks other than the Nationalized Indian banks, the bank must be a commercial bank having a net worth above Rs 100 crores, and a declaration to this effect shall be made by such commercial bank either in the Bank Guarantee itself or separately on its letterhead.	
8.	Confirm compliance with the Completion Schedule as specified in the Bid document. Confirm contract period shall be reckoned from the date of Fax of Intent.	
9.	Confirm acceptance of the Price Reduction Schedule for the delay in the completion schedule specified in the Bid document.	
10.	a) Confirm acceptance of all terms and conditions of the Bid Document (all sections). b) Confirm that printed terms and conditions of the bidder are not applicable.	
11.	Confirm your offer is valid for three months from the Final/ Extended due date of opening Techno-commercial Bids.	
12.	Please furnish EMD/ Bid Security details: a) EMD/ Bid Security No. & date b) Value	

	c) Validity	
Sl. No.	**DESCRIPTION**	**BIDDER'S CONFIRMATION**
13.	Confirm acceptance of all provisions of ITB.	
14.	Confirm that Annual Reports for the last three financial years are furnished along with the Un-priced Bid.	
15.	Confirm that, in case of contradiction between the confirmations provided in this format and the terms & conditions mentioned elsewhere in the offer, the warranties given in this format shall prevail.	
16.	Confirm that none of the Directors of the bidder is a relative of any Director of Owner, or the bidder is a firm in which any Director of Owner/ GASONET or his relative is a partner.	
17.	All correspondence must be in ENGLISH language only.	
18.	The owner reserves the right to change the terms & conditions of the RFQ/ BIDDING DOCUMENT and reject any or all bids.	
19.	Confirm that Bidder shall bear all Bank charges associated with Bidder's Bank.	
20.	Confirm that as per Clause 171 of the GST Act, the benefit due to a reduction in tax rate or input tax credit will be passed on to the consumer by way of commensurate decline in prices.	

Place:
Date:

[Signature of Authorized Signatory of Bidder]
Name:
Designation:
Seal:

F-11

ACKNOWLEDGEMENT CUM CONSENT LETTER

(On receipt of tender document/ information regarding the tender, Bidder shall acknowledge the receipt and confirm his intention to bid or reason for non-participation against the enquiry/ tender through e-mail/ fax to the concerned executive in GASONET issued the tender by filling up the Format)

To,
GASONET SERVICES (RJ) LIMITED
Corporate Office: 1019-1020, World Trade Tower Sector - 16, Noida – 201301, Uttar Pradesh
SUBJECT: MDPE LAYING & ASSOCIATED WORKS FOR (RJ) GA
TENDER NO.: GASONET/C&P/GSL/PE PNG/RJ/2026-2027/32

Dear Sir,

We now acknowledge receipt of a complete set of bidding documents along with enclosures for the subject item/ job and/ or the information regarding the subject tender.

- We intend to bid as requested for the subject item/ job and furnish the following details concerning our quoting office:

  Postal Address with Pin Code : .....
  Telephone Number : .....
  Fax Number : .....
  Contact Person : .....
  E-mail Address : .....
  Mobile No. : .....
  Date : .....
  Seal/ Stamp : .....

- We are unable to bid for the reason given below:

  Reasons for non-submission of bid:

Agency's Name : .....
Signature : .....
Name : .....
Designation : .....
Date : .....
Seal/ Stamp : .....

F-12

UNDERTAKING ON LETTERHEAD

To,
GASONET SERVICES (RJ) LIMITED
Corporate Office: 1019-1020, World Trade Tower Sector - 16, Noida – 201301, Uttar Pradesh
SUBJECT: MDPE LAYING & ASSOCIATED WORKS FOR (RJ) GA
TENDER NO.: GASONET/C&P/GSL/PE PNG/RJ/2026-2027/32

Dear Sir,

We now confirm that "The contents of this Tender Documents No. _____ have not been modified or altered by M/s. …….. (Name of the bidder with complete address) In case it is found that the tender document has been modified/altered by the bidder, the bid submitted by M/s..... (Name of the bidder) shall be liable for rejection".

Place:
Date:

[Signature of Authorized Signatory of Bidder]
Name:
Designation:
Seal:

F-13

BIDDER'S EXPERIENCE

To,
GASONET SERVICES (RJ) LIMITED
Corporate Office: 1019-1020, World Trade Tower Sector - 16, Noida – 201301, Uttar Pradesh
SUBJECT: MDPE LAYING & ASSOCIATED WORKS FOR (RJ) GA
TENDER NO.: GASONET/C&P/GSL/PE PNG/RJ/2026-2027/32

SI. No	Description of the Services	LOA/ WO No. and date	Full Postal Address and phone nos. of Client. *Name, designation and address of Engineer/officer–in–charge (for cases other than purchase)*	Value of Contract/ Order (specify Currency Amount)	Date of Commencement of Services	Scheduled Completion Time (Months)	Date of Actual Completion	Reasons for delay in execution, if any
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)

Place:
Date:

[Signature of Authorized Signatory of Bidder]
Name:
Designation:
Seal:

F-14

CHECKLIST

Bidders are requested to fill in the checklist duly. This checklist gives only certain essential items to facilitate the bidder to make sure that they have submitted the necessary data/ information as called for in the bid document along with their offer. However, this does not relieve the bidder of his responsibilities to ensure that his offer is otherwise complete in all respects.

Please ensure compliance and tick (√) against the following points:

S.N.	DESCRIPTION	CHECK BOX	REFERENCE PAGE NO. OF THE BID SUBMITTED
1.0	Digitally Signing (in case of e-bidding)/ Signing and Stamping (in case of manual bidding) on each sheet of the offer, original bidding document including SCC, ITB, GCC, SOR drawings, appendix (if any)		
2.0	Confirm that the following details have been submitted in the Un-priced part of the bid		
i	Covering Letter, Letter of Submission		
ii	Bid Security		
iii	Signed and stamped original copy of bidding document along with drawings and addendum (if any)		
iv	Power of Attorney in the name of the person signing the bid.		
v	Copies of documents defining constitution or legal status, place of registration and principal place of business of the company		
vi	Bidders declaration that regarding Holiday/ Banning, liquidation court receivership or similar proceedings		
vii	Details, documentary proof required against qualification criteria, and documents establishing equipment ownership as per SCC are enclosed.		
viii	Confirm submission of document along with techno-commercial bid as per bid requirement.		
3.0	Confirm that all forms duly filled in are enclosed with the bid duly signed by an authorized person(s)		
4.0	Confirm that the price part is per the Price Schedule format submitted with the Bidding Document/ uploaded in case of e-bid.		
7.0	Confirm that annual reports for the last three financial years & duly filled in Form 16 are enclosed in the offer for financial assessment (where financial criteria of BEC is applicable.)		

SN	DESCRIPTION	CHECKLIST	YES/ NA	NO
1.	**TENDER FEE**	**Rs. .00**		
	DD	DD NO. _____ dated_____ For **Rs._.00** in favour of **GASONET** payable at Mumbai	YES/ NA	NO
2.	EMD	**Rs.**		
A	DD	DD No. _____ dated _____ Drawn on ___(bank) for Rs. In favour of **GASONET,** payable at Mumbai	YES/ NA	NO
B	BG	BG VALIDITY BEYOND 3 THREE MONTHS FROM BID VALIDITY PERIOD OF 30 DAYS	YES/ NA	NO
C	NSIC/ DIC CERTIFICATE/ UDYOG ADHAR	**Duly certified by the Chartered Accountant (not an employee or a Director or not having any interest in the bidder's company/ firm) and Notary Public with Legible stamp as** MENTIONED IN CLAUSE NO.40 OF ITB.	YES/ NA	NO
2.	BID VALIDITY UP TO THREE MONTHS	ACCEPTED	YES	NO
3.	Copy of **WORK ORDER** (WO)/LOA and completion/ execution certificate **as stipulated in BEC**	The Work order/ LOA & completion/ execution certificate mentioning required details duly attested by the **Chartered Engineer and Notary Public.** For instance, a **Work order/ LOA** must indicate the Nature of work/ service, various components/ items, period, and value. Similarly, the completion certificate/ execution certificate must reference the relevant work order, Actual value of executed work, and Actual completion date.	YES/ NA	NO
6.	**FINANCIAL CRITERIA IN CASE OF SINGLE BIDDER AS STIPULATED IN BEC**			
6i.	Financial Documents – Turn Over	Submitted audited Balance Sheet and Profit and Loss Statement of any of the three (3) Preceding Financial Year(s), i.e. **FY: _____**[to be reckoned from bid due date] along with the un-price bid.	YES/ NA	NO
6ii.	Financial Documents – Net Worth & Working Capital	Submitted audited Balance Sheet and Profit and loss Statement of **FY: _____**meeting the NET WORTH & Working Capital requirement.	YES	NO

6iii.	Balance Sheet/s & Profit & Loss Statements **as stipulated in BEC**	Duly certified/ attested by **Notary Public** with legible stamp with the applicability of relevant clause of BEC	YES/ NA	NO
6iv.	Details of financial capacity of bidder prescribed **Format, F-16 as stipulated in BEC**	Duly signed and stamped by a **Chartered Accountant** with Membership Number	YES/ NA	NO
6v.	In case Bidder's Working Capital is inadequate **as stipulated in BEC**	Letter **(as per Format, f-15)** from the **Bidder's bank** has a net worth not less than INR 1 (one) Billion confirming the availability of the line of credit covering the inadequacy to meet the working capital requirement duly certified/ attested by **Notary Public** with a legible stamp.	YES/ NA	NO
7.	Tender Document Submitted	Submitted Unedited and duly signed along with the bid document	YES	NO
8.	SOR (BLANK without price) mentioning the word **"QUOTED/ NOT QUOTED"** in each item rate column	Submitted Unedited and duly signed along with the bid document	YES	NO
9.	FORM 1 TO 19 ATTACHED TO TENDER	Duly filled information as applicable, signed, stamped & submitted all	YES	NO
10.	**Non-submission of the attested copies, as specified above/ in the tender document of the requisite certificates/ documents, shall render the bid non-responsive and shall be liable for rejection.**		**[AGREED & CONFIRMED]**	

Place:
Date:

[Signature of Authorized Signatory of Bidder]
Name:
Designation:
Seal:

NB: Bidder is requested to fill this checklist and ensure that all details/ documents have been furnished (attached) as called for in the Bidding Document along with duly filled in, signed & stamped checklist with each copy of the "Un-priced bid (Part-I)" and Blank Price schedule (Part-II). **Non-submission of any document/ submission without proper certification/ attestation/ authentication, as mentioned above, may lead to outright rejection of the Bid.**

F – 15

FORMAT FOR CERTIFICATE FROM BANK
IF BIDDER'S WORKING CAPITAL IS INADEQUATE
(To be provided on Bank's letterhead)

Date:

To,
GASONET SERVICES (RJ) LIMITED
Corporate Office: 1019-1020, World Trade Tower Sector - 16, Noida – 201301, Uttar Pradesh
SUBJECT: MDPE LAYING & ASSOCIATED WORKS FOR (RJ) GA
TENDER NO.: GASONET/C&P/GSL/PE PNG/RJ/2026-2027/32

Dear Sir,

This is to certify that M/s.....(Name of the bidder with address) (from now on referred to as Customer) is an existing customer of our Bank.

The Customer has informed us that they wish to bid for GASONET's RFQ/ Tender No. **GASONET/C&P-MDPE LAYING & LMC/2026-27/32** dated..... for **"Services for_____"** and as per the terms of the said RFQ/ Tender, they have to furnish a certificate from their Bank confirming the availability of line of credit.

Accordingly, M/s.....(Name of the Bank with address) confirms availability of line of credit to M/s.....(Name of the bidder) for at least an amount of Rs. _____(Working Capital Amount)

It is also confirmed that the Bank's net worth is more than Rs. 100 Crores (or Equivalent USD), and the undersigned is authorized to issue this certificate.

Yours truly

For .....(Name & address of Bank)

(Authorized signatory)
Name of the signatory:
Designation :
Stamp :

F – 16

FORMAT FOR CHARTERED ACCOUNTANT CERTIFICATE FOR FINANCIAL CAPABILITY OF THE BIDDER

SUBJECT: MDPE LAYING & ASSOCIATED WORKS FOR (RJ) GA
TENDER NO.: GASONET/C&P/GSL/PE PNG/RJ/2026-2027/32

We have verified the Annual Accounts and other relevant records of M/s ..... (Name of the bidder) and certify the following

A. ANNUAL TURNOVER OF LAST 3 YEARS:

Year	Amount (Currency)
Year 1:	
Year 2:	
Year 3:	

B. FINANCIAL DATA FOR THE LAST AUDITED FINANCIAL YEAR :

Description	**Year _____**
	Amount (Currency)
1. Current Assets	
2. Current Liabilities	
3. Working Capital (Current Assets – Current liabilities)	
4. Net Worth (Paid-up share capital and Free Reserves & Surplus)	

Name of Audit Firm:
Chartered Accountant
Date:

[Signature of Authorized Signatory]
Name:
Designation:
Seal:
Membership no.:

Instructions:

1. The financial year would be the same as generally followed by the bidder for its Annual Report.
2. The bidder shall provide the audited annual financial statements as required for this Tender document. Failure to do so would result in the Proposal being considered as non-responsive.
3. For this Tender document, (i) Annual Turnover shall be "Sale value/ Operating Income", (ii) Working Capital shall be "Current Assets less Current liabilities", and (iii) Net Worth shall be "Paid up share capital and Free Reserve & Surplus."
4. **This certificate is to be submitted on the letterhead of the Chartered Accountant.**

F – 17

BIDDER'S QUERIES FOR THE PRE-BID MEETING

To,
GASONET SERVICES (RJ) LIMITED
Corporate Office: 1019-
1020, World Trade Tower
Sector - 16, Noida – 201301, Uttar Pradesh

SUBJECT: MDPE LAYING & ASSOCIATED WORKS FOR (RJ) GA
TENDER NO.: GASONET/C&P/GSL/PE PNG/RJ/2026-2027/32

SL. NO.	REFERENCE OF BIDDING DOCUMENT				BIDDER'SQUERY	GASONET'S REPLY
	SEC. NO.	PAGE NO.	CLAUSE NO.	SUBJECT		

NOTE: The Pre-Bid Queries shall be sent by fax and e-mail before the due date for receipt of the bidder's queries.

SIGNATURE OF BIDDER: _____
NAME OF BIDDER: _____

F-18

E-Banking Mandate Form

(To be issued on vendors' letterhead)

SUBJECT: MDPE LAYING & ASSOCIATED WORKS FOR (UK) GA TENDER NO.: GASONET/C&P/GSL/PE PNG/UK/2026-2027/25

1. Vendor/ Customer Name:
2. Vendor/ customer Code:
3. Vendor/ customer Address:
4. Vendor/ customer e-mail id:
5. Particulars of bank account
   a) Name of Bank
   b) Name of branch
   c) Branch code:
   d) Address:
   e) Telephone number;
   f) Type of account (current/ saving etc.)
   g) Account Number:
   h) RTGS IFSC code of the bank branch
   i) NEFT IFSC code of the bank branch
   j) 9-digit MICR code

I/ We now authorize Gasonetto to release any amount due to me/ us in the bank account as mentioned above. I / We now declare that the abovementioned particulars are correct and complete. If the transaction is delayed or lost because of incomplete or incorrect information, we will not hold the Gasonet responsible.

(Signature of vendor/ customer)

BANK CERTIFICATE

We certify that ……. has an Account no ..... With us, we confirm that the details given above are correct as per our records.
Bank stamp

Date [Signature of Authorized officer of Bank]

F-19

CONFIRMATION ON APPLICABILITY OF "MICRO, SMALL AND MEDIUM ENTERPRISES DEVELOPMENT ACT, 2006 (MSMED ACT 2006)"

SUBJECT: MDPE LAYING & ASSOCIATED WORKS FOR (RJ) GA
TENDER NO.: GASONET/C&P/GSL/PE PNG/RJ/2026-2027/32

1. We confirm that provisions of "Micro, Small and Medium Enterprises Development Act 2006" ('MSMED') apply to us and our organization falls under the definition of:

   a. **Micro Enterprise -** **[ ]**

   b. **Small Enterprise -** **[ ]**

   c. **Medium Enterprise -** **[ ]**

   (Please put a tick in the appropriate box.)

2. Copy of proof of valid document/ certificate [indicating registration no.] of being a Micro/ Small/ Medium Enterprises is enclosed.

Place:
Date:

[Signature of Authorized Signatory of Bidder]
Name:
Designation:
Seal:

Note: In the case that the above Format, along with proof of valid document/ certificate [indicating registration no.], is not submitted in the offer, it will be presumed that your organization is not a micro, small or medium enterprise as per the provisions of MSMED Act 2006 and consequently you will not be eligible to the benefits admissible under the MSMED Act 2006.

F-20

DECLARATION OF BID SECURITY

To

M/s GASONET SERVICES (RJ) LIMITED
SUBJECT: MDPE LAYING & ASSOCIATED WORKS FOR (RJ) GA
TENDER NO.: GASONET/C&P/GSL/PE PNG/RJ/2026-2027/32

Dear Sir,

After examining / reviewing provisions of above referred tender documents (including all corrigenda/addenda), we M/s _____(Name of Bidder) have submitted our offer/bid no._____.

We, M/s _____(Name of Bidder) hereby understand that, according to your conditions, we are submitting this Declaration for Bid Security.

We understand that we will be put on watch list/holiday/banning list (as per policies of Gasonet in this regard), if we are in breach of our obligation(s) as per following:

a) have withdrawn/modified/amended, impairs or derogates from the tender, my/our bid during the period of bid validity specified in the form of Bid; or

b) having been notified of the acceptance of our Bid by GSL during the period of bid validity:
    a. fail or refuse to execute the Contract, if required, or
    b. fail or refuse to furnish the Contract Performance Bank Guarantee, in accordance with provisions of tender document.
    c. fail or refuse to accept 'arithmetical corrections' as per provision of tender document.

c) having indulged in corrupt/fraudulent /collusive/coercive practice as per procedure

Place: Signatory
Date:
Seal of Bidder

Signature of Authorized

Name:

F-21
INDEMNITY BOND

To

M/s Gasonet Services (RJ) Limited

SUBJECT: MDPE LAYING & ASSOCIATED WORKS FOR (RJ) GA
TENDER NO.: GASONET/C&P/GSL/PE PNG/RJ/2026-2027/32

NON-JUDICIAL STAMP PAPER (UTTARAKHAND STATE) OF REQUISITE VALUE DULY NOTARIZED.

WHEREAS Gasonet Services (UK) Limited (hereinafter referred to as "**GSRL**") which expression shall, unless repugnant to the context include its successors and assigns, having its corporate office at 807, World Trade Tower, Sector - 16, Noida – 201301 has entered into a contract with M/s*..... (hereinafter referred to as the "**Contractor"**) which expression shall unless repugnant to the context include its representatives, successors and assigns, having its registered office at *.....and on the terms and conditions as set **out, inter-alia in the [** ***mention the work order/LOA/Tender No.*****]**and various documents forming part thereof, hereinafter collectively referred to as the '**CONTRACT'** which expression shall include all amendments, modifications and / or variations thereto.

GSRL has also advised the Contractor to execute an Indemnity Bond in general in favour of GSRL indemnifying GSRL and its employees including directors from all consequences which may arise out of any prospective litigation or proceedings filed or may be initiated by any third party, including any Banker / financial institution / worker(s) /vendor(s)/ subcontractor(s) etc. who may have been associated or engaged by the Contractor directly or indirectly with or without consent of GSRL for above works.

NOW, THEREFORE, in consideration of the promises aforesaid, the Contractor hereby irrevocably and unconditionally undertakes to indemnify and keep indemnified GSRL and all its employees including directors, from and against all/any claim(s), damages, loss, which may arise out of any litigations/ liabilities that may be raised by the Contractor or any third party against GSRL under or in relation to this contract. The Contractor undertakes to compensate and pay to GSRL and/or any of its employees including directors forth with on demand without any protest the amount claimed by GSRL for itself and for and on behalf of its employees including directors together with direct/indirect expenses including all legal expenses incurred by them or any of them on account of such litigation or proceedings.

AND THE CONTRACTOR hereby agrees with GSRL that:

(i) This Indemnity shall remain valid and irrevocable for all claims of GSRL and/or any of its employees including directors arising out of said contract with respect to any such litigation / court case for which GSRL and/or its employees including directors have been made party until now or here-in-after.

(ii) This Indemnity shall not be discharged/revoked by any change/ modification/amendment/assignment of the contract or any merger of the Contractor with other entity or any change in the constitution/structure of the Contractor's firm/Company or any conditions thereof including insolvency etc. of the Contractor, but shall be in all respects and for all purposes binding and operative until any/all claims for payment of GSRL are settled by the Contractor and/or GSRL discharges the Contractor in writing from this Indemnity.

The undersigned has full power to execute this Indemnity Bond for and on behalf of the Contractor and the same stands valid.

SIGNED BY :
For *[Contractor]* *Authorised Representative*

Place: Dated:

Witnesses:

1.
2

F-22

UNDERTAKING OF EMD

To,
GASONET SERVICES (RJ) LIMITED
Corporate Office: 1019-1020, World Trade Tower Sector - 16, Noida – 201301, Uttar Pradesh
SUBJECT: MDPE LAYING & ASSOCIATED WORKS FOR (RJ) GA
TENDER NO.: GASONET/C&P/GSL/PE PNG/RJ/2026-2027/32

Dear Sir,
We, M/s. _____ (Name of the Bidder), having our registered office at _____ (Complete Address), hereby undertake and confirm that:
We have submitted our bid against the above-mentioned tender and undertake to keep our offer valid for the period specified in the Tender Document.
We understand that if we withdraw or modify our bid during the bid validity period, or if we are awarded the contract and fail to sign the contract agreement or submit the required Performance Bank Guarantee (PBG)/Contract Performance Bank Guarantee (CPBG) within the stipulated period, GASONET SERVICES (RJ) LIMITED shall have the right to take appropriate action as per the provisions of the Tender Document including blacklist.
We further undertake to comply with all applicable terms and conditions relating to EMD as stipulated in the Tender Document.
We hereby confirm that this undertaking shall be binding upon us and shall remain valid for the period specified in the Tender Document.

Place:
Date:

[Signature of Authorized Signatory of Bidder]
Name:
Designation:
Seal:

SECTION – VI

SCHEDULE OF RATES [SOR]

(Attached Separately file)

OTHER TERMS & CONDITIONS

- CPAR. Mandatory. >60% in last 3 months
- Contractor shall ensure all tools tackles are fit for use. Pre mobilization shall include hydraulic/pneumatic rock breaker.
- Medical check up records before start of work
- No work without safety training by GSL
- Contactor to register for CBuD
- Day to day coordination with local authorities
- If GSL has no store in GA then it is in scope of contractor to get the material from nearby GSL store. No separate charges shall be payable on account of this.
- Trial pits should be atleast 250mm deeper than the pipeline trench depth and no extra payment shall be done for trial pits.
- In case of contractor fails to rectify utility damages, the same shall be undertaken by GSL at the risk and cost of the contractor and suitable penalty shall be applicable. For any legal action contractor is responsible. NOC from authority shall be obtained from contractor
- No payment shall be claimed by the contractor if the pipeline is not laid in continuity.
- The contractor shall own a 32tonne capacity HDD machine.
- Detailed specification of free issue material shall be given.
- Material reconciliation report with every bill submitted.
- Submission of organogram – Mandatory - ***Project Manager***Supervisor*Plumber*Safety Officer.
- All staff/workers shall have Identity cards of the agency.
- Only qualified welders and plumbers shall be deployed at site. Qualification procedure may be finalized by C&P and E&P.
- Continuous hard barricading is required at all times of open trench. Barricading design may be given to contractor.
- Site survey shall include identification of utilities, Location of VC & SR.
- If MP and LP to be laid in same trench, then MP on road side and LP at extreme side of road.
- Reports with as built shall be submitted to EIC within 24 hrs of execution.
- Contractor shall have project 4-wheeler at site.
- **Infrastructure readiness for supply of NG Customers is the essence of the contract. Part A (PE) executed quantity at any time should not exceed 20% of the Part B (PNG). PNG Numbers shall be the numbers of RFCs for consideration as complete.**
- Contractor will not transfer any free issue as well as his supplied material to any other site/ any other contractor without prior written approval of the Engineer- In-charge
- Before award of works order/ starting of work at allotted site, contractor shall provide details of stores and site office established by him for the intended work. Failing which the allocation of work may be deferred by Owner. Also, the contractors shall submit details of tools& tackles under his procession required for execution of the work. Owner shall verify all these aspects before allocating work to the contractor.
- If the Contractor fails to perform the work satisfactorily, does not show improvement, fails to achieve the desired targets, or does not comply with any of the contractual terms and conditions despite multiple reminders and/or written instructions issued by the Engineer-in-Charge (EIC), Gasonet reserves the right to terminate or offload the contract by giving **15 (fifteen) days' written notice**. Upon such termination/offloading, Gasonet may, at its sole discretion, award the remaining work to any other performing contractor already deployed in the respective GA or to the next eligible bidder. Any additional cost, risk, or consequences arising due to such offloading/termination shall be borne by the defaulting Contractor, without prejudice to any other rights and remedies available to Gasonet under the Contract.

Incentive Scheme PNG Connection.

Sr. No.	Per Month NG (Live Connection)	Incentive per Connection
1	Up to 150	Nil
2	151 to 200	Rs. 200
3	201 to 300	Rs. 250
4	301 and above	Rs. 300

Basis of Incentive Calculation:

- The incentive shall be calculated on an incremental basis. Accordingly, the incentive rate applicable to each slab shall be payable only for the number of connections falling within that respective slab.

Example 1 - 250 Live PNG Connections in a Month: First 150 connections = Nil; next 50 connections (151-200) = 50 x Rs. 200 = Rs. 10,000; next 50 connections (201-250) = 50 x Rs. 250 = Rs. 12,500. Total Incentive = Rs. 22,500.

Example 2 - 310 Live PNG Connections in a Month: First 150 connections = Nil; next 50 connections (151-200) = 50 x Rs. 200 = Rs. 10,000; next 100 connections (201-300) = 100 x Rs. 250 = Rs. 25,000; next 10 connections (301-310) = 10 x Rs. 300 = Rs. 3,000. Total Incentive = Rs. 38,000.