



## **Bengal Gas Company Limited**

{A joint venture of GAIL (India) Limited and Greater Calcutta Gas Supply Corporation Limited (GCGSCL)}  
KOLKATA, WEST BENGAL (INDIA)

**INVITES**

### **EXPRESSION OF INTEREST FOR SMALL LMC WORKS IN KOLKATA GA**

**EOI Document No. : BGCL/PROJ/LMC/2025-26/EOI/01**

**EOI Issuance Date: 12.01.2026**

**Last Date for EOI Submission: 11.03.2026**

("First Come - First Serve")

**(Upto 17:00 HRS)**



बंगाल गैस कंपनी लललललटेड BENGAL GAS COMPANY LIMITED  
(गेल एलि जीसीजीएससीएल का संयुक्त उलि) (A JV Company of GAIL and GCGSCL)

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**SECTION-I**  
**INVITATION FOR BID**  
**(IFB)**



बंगाल गैस कंपनी लललललेड BENGAL GAS COMPANY LIMITED  
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SECTION-I

"INVITATION FOR EOI "

Ref No.: BGCL/PROJ/LMC/2025-26/EOI/01

Date: 12.01.2026

To,

PROSPECTIVE BIDDERS

**SUB: INVITATION FOR EOI FOR SMALL LMC WORKS IN KOLKATA  
GEOGRAPHICAL AREA**

Dear Sir/Madam,

1.0 Bengal Gas Company Limited, Kolkata [having Registered Office at 1st Floor, Block A, Finance Centre, CBD, Action Area – II B, Newtown, North 24 Parganas, Kolkata, West Bengal, India, Pin: 700161] CIN: U40300WB2019GOI229618, invites bids from bidders for the subject supply/service/ works job, in complete accordance with the following details and enclosed Tender Documents.

2.0 The brief details of the EOI are as under:

(A)	NAME OF WORK / BRIEF SCOPE OF WORK/JOB	INVITATION FOR EOI FOR SMALL LMC WORKS IN KOLKATA GA
(B)	TYPE OF BIDDING SYSTEM	SINGLE BID SYSTEM
(C)	TYPE OF TENDER	EOI
(D)	COMPLETION/CONTRACT PERIOD	The validity of Contract shall be for a period of <b>06 months</b> from the date of issuance of Fax of Acceptance.
(E)	BID SECURITY / EARNEST MONEY DEPOSIT (EMD)	<b>APPLICABLE</b> <b>Amount: Rs. 1,23,643</b> (Refer clause no.16 of ITB) <b>EMD exemption is not applicable to MSE Bidders being a Works Contract. MSE Bidders also have to submit EMD in order to participate in the Tender.</b>
(F)	DECLARATION FOR BID SECURITY	Start-Ups and CPSEs (to whom exemption is allowed as per extant guidelines in vogue) are required to submit Declaration for Bid Security as per



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		proforma at Form F-2A
(G)	AVAILABILITY OF TENDER DOCUMENT ON WEBSITE(S)	6 month from date of publish of EOI on following websites: BGCL's Tender Website – <a href="https://bgcl.co.in/ProjectLmcEOI.html">https://bgcl.co.in/ProjectLmcEOI.html</a> or <a href="http://www.bgcl.co.in">www.bgcl.co.in</a> then go to EOI Section under that EOI for small LMC work EOI is available.
(H)	DUE DATE & TIME OF BID-SUBMISSION (ON OR BEFORE)	Immediate effect from publishes of EOI
(I)	DATE AND TIME OF BID OPENING	NOT APPLICABLE
(J)	CONTACT DETAILS OF TENDER DEALING OFFICER	Name : Jeet Rajput Khongwir Designation: Head (Projects) e-mail : hodproject@bgcl.co.in
(K)	DEALING BGCL'S OFFICE ADDRESS	BENGAL GAS COMPANY LIMITED 1st Floor, Block: A, Finance Centre, CBD Action Area:II B, New Town, Kolkata : 700161
(L)	TENDER PROCESSING FEE (NON-REFUNDABLE)	NIL

In case of the days specified above happens to be a holiday in BGCL, the next working day shall be Implied.

This is not an Order.

For & on behalf of  
BENGAL GAS COMPANY LIMITED (BGCL)

(Authorized Signatory)  
Name : Jeet Rajput Khongwir  
Designation : Head (Projects)



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## **SECTION-II**

# **BID EVALUATION**

# **CRITERIA**

**&**

# **EVALUATION**

# **METHODOLOGY**



SECTION-II

**BID EVALUATION CRITERIA & EVALUATION METHODOLOGY**

**A. Technical Criteria:**

A.1 The Bidder should have successfully executed/ completed **one single order** of LMC work including **Installation, Testing and Commissioning of MDPE Pipeline/GI Network/ Domestic household connection for any City Gas Distribution project of value Rs. 6,18,217/- (including GST)** in the preceding '07 (Seven) years' as on final due date of Bid submission.

OR

A.2 The Bidder should have successfully executed/completed **one single order for Laying, commissioning of underground pipelines for carrying Hydro-carbon products/ Water – Drainage/Sewage/laying of cable /telecom ducts or any other underground utility laying job through various methods (Open excavation method/Moling/HDD/ Boring, etc.) value Rs. 6,18,217/- (including GST)** in the preceding '07 (Seven) years' as on final due date of bid submission.

**Note:**

- i. Joint Venture/Consortium bids are **not acceptable**.
- ii. In case the bidder is executing a contract of above nature which is still running, and the contract executed value / quantity till one day prior to the due date of submission is equal to or more than the minimum prescribed value / quantity 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.

**Further, in case of rate/maintenance contract, cumulative Qty./ value of all release orders emanating from one rate/maintenance contract shall be considered as single contract for evaluation of credential of a bidder for meeting their experience criteria.**

- iii. A job executed by a bidder for its own plant/ projects cannot be considered as experience for the purpose of meeting requirement of 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 submit these documents in addition to the documents specified in the bidding documents to meet BEC.



- iv. Experience of bidder acquired as a sub-contractor can also be accepted subject to submission of Work Order Copy and Completion/ Execution certificate, from the End user/Owner (or their consultant who has been duly authorized by owner to issue such certificate).

Experience of sub-contractors working in CGD project may be considered provided-

- a) Sub-contractor must have valid work order and experience certificate issued by the main CGD contractor.
- b) The concerned main CGD contractor must have valid Work Order Copy issued by End user/Owner (or their consultant who has been duly authorized by owner to issue such certificate).

**All Work Order and Experience certificates must satisfy the requirements of Technical Bid Evaluation criteria clause No. A.1/A.2.**

## **B Financial Criteria**

### **B.1 Average Annual Turnover:**

The minimum Average Annual Financial Turnover of the bidder during preceding 3 financial years as per the audited annual financial statements, should be **Rs. 30,91,085.**

**Note to B.1:** Average Annual Turnover: Preceding 3 financial years mentioned in aforesaid BEC refer to immediate 3 preceding financial years wherever the closing date of the bid is after 30th Sept. of the relevant financial year. In case the tenders having the due date for submission of bid up to 30th September of the relevant financial year and audited financial results of the immediate 3 preceding financial years are not available, the audited financial results of the 3 years immediately prior to that will be considered. Wherever the closing date of the bid is after 30th Sept. of the relevant financial year, bidder has to compulsorily submit the audited financial results for the immediate 3 preceding financial years. Further, bidder has to submit F-10 accordingly.

In case the date of constitution/incorporation of the bidder is less than 3 years old, the average turnover in respect of the completed financial years after the date of constitution/incorporation shall be taken into account for minimum Average Annual Financial Turnover criteria.



**B.2 Working Capital :**

The minimum working capital of the bidder as per the audited annual financial statement of immediate preceding financial year, should be **Rs. 6,18,217.**

**Note to B.2:** In case the tenders having the bid closing date up to 30th September of the relevant financial year, and audited financial results of the immediate preceding financial year is not available, in such case the audited financial results of the year immediately prior to that year will be considered as last financial year for Working Capital calculation. Wherever the closing date of the bid is after 30th Sept. of the relevant financial year, bidder has to compulsorily submit the audited financial results for the immediate preceding financial years. Further, bidder has to submit F-10 accordingly.

If the bidder's working capital is negative or inadequate, the bidder shall submit a letter from their bank having net worth not less than Rs.100 crores (or equivalent in USD), confirming the availability of line of credit for working capital amount mentioned herein above. The line of credit letter from bank to be submitted strictly as per format at F-9.

**C Exchange rate for Conversion of Currency for evaluation of documents submitted by bidders for BEC which are in other currency than specified in BEC shall be as follows:**

- (a) **BEC (Technical Criteria):** Bill Selling (foreign exchange) Rate of State Bank of India as prevailing on the date of award of contract submitted by bidder.
- (b) **BEC (Financial Criteria):**
- (i) **For Annual Turnover:**  
The average of Bill Selling (foreign exchange) Rate of State Bank of India as prevailing on the First date and Last date of the respective Financial Year.
- (ii) **For Working Capital:**  
The Bill Selling (foreign exchange) Rate of State Bank of India as prevailing on the Last date of the respective Financial Year.
- (c) In case, the SBI Selling rate is not available as on the date of conversion as specified above for respective cases, the exchange rate for conversion of currency shall be taken from the internet, such as:  
<https://www.xe.com/currencyconverter>  
<https://economictimes.indiatimes.com/markets/forex/currency-converter>  
<https://www.oanda.com/currency/converter>



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**D** **RELAXATION OF PRIOR TURNOVER AND PRIOR EXPERIENCE FOR STARTUPS (AS DEFINED IN GAZETTE NOTIFICATION NO. D.L-33004/99 DATED 18.02.2016 AND 23.05.2017 OF MINISTRY OF COMMERCE AND INDUSTRY), AS AMENDMED TIME TO TIME** *Not Applicable for this tender*

**E** **DOCUMENTS TO BE SUBMITTED FOR COMPLIANCE TO BEC**

Documents required to be submitted by bidder along with the bid for qualification of BEC:

BEC Clause no.	Description	Documents required for qualification
<b>A. Documents Required-Technical Criteria</b>		
A.1/ A.2	<b>Experience criteria</b>	<p>(a) Copy of Detailed Work Order along with Schedule of Rates.</p> <p>(b) Completion certificate issued by end user / Owner (or their consultant who has been duly authorized by owner to issue such certificate) only after completion of entire work of pipeline system along with all associated works in all aspect.</p> <p>Execution Certificate issued by the end user / owner / authorized consultant submitted by a bidder against work contract can also be considered in place of completion certificate for meeting the stipulated experience criteria provided that the asset for which the said execution certificate has been issued is ready for commercial use.</p> <p>Note: The Completion certificate/Execution certificate shall have details like Work Order no. / date, brief scope of work, Completion/Execution date, quantity (executed/completed), contract value, executed value, name and designation of authorized signatory etc.</p>



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Note to BEC- Technical	In case of rate contract	(a) Copy of detailed Work Order along with Schedule of Rates.  (b) Copy of Execution certificate issued by end user /Owner (or their consultant who has been duly authorized by owner to issue such certificate).  Note: Execution certificate shall have details like work order no./ date, brief scope of work, completion date, quantity (Executed/Completed), name and designation of authorized signatory etc.
	Jobs executed for Subsidiary / Fellow subsidiary/ Holding company	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.
	In case of Sub-contractor	Submission Copy of Work Order and Completion/ Execution certificate, issued by end user/Owner (or their consultant who has been duly authorized by owner to issue such certificate).
	In Case of Sub-contractor in any CGD Project	Experience of sub-contractors working in CGD project may be considered provided-  a) Sub-contractor must have valid Work Order And Experience Certificate issued by the main CGD contractor.  b) The concerned main CGD contractor must have valid Work Order issued by End user/Owner (or their consultant who has been duly authorized by owner to issue such certificate).  Note: All Work Order, Experience Certificates and other documents must satisfy the requirements same as above Experience Criteria A.1/A.2.



<b>B. Documents Required-Financial Criteria</b>		
BEC FINANCIAL		A certificate for financial capability of the bidder from Practicing Chartered Accountant in prescribed format [Format F-10] as provided in the Tender Document.
<b>B.1</b>	Average Annual Turnover	Bidder(s) shall submit copy of Audited Annual Financial Statement [Balance Sheet and Profit & Loss Account Statement] along with Audit Report of three (3) preceding Financial Year(s).
<b>B.2</b>	Working Capital	<p>Bidder(s) shall submit copy of Audited Annual Financial Statement [Balance Sheet and Profit &amp; Loss Account Statement] along with Audit Report for the immediate preceding Financial Year.</p> <p>If the bidder's working capital is negative or inadequate, the bidder shall submit a letter from their bank [as per Format] having net worth not less than Rs 100 Crore (or equivalent USD), confirming the availability of the line of credit for the amount, irrespective of overall position of the working capital.</p> <p>Such letter shall be from single bank only. However, banking syndicate will also be acceptable wherein a group of bank can jointly provide line of credit to the bidder.</p> <p>The bank shall be required to issue the letter for declaration/ certificate of line of credit on their letter head along with the contact details of the issuing authority like email id, contact number etc. (Refer F-9 for format for certificate from bank if bidder's working capital is inadequate).</p>



**F AUTHENTICATION OF DOCUMENTS SUBMITTED IN SUPPORT OF BID EVALUATION CRITERIA (BEC):**

<b>Technical Criteria of Bid Evaluation Criteria (BEC)</b>	All documents submitted in support of Technical Criteria of Bid Evaluation Criteria (BEC) to be furnished by the bidders shall necessarily be duly certified / attested by Notary public with legible stamp and <b>Self Attested</b> .
<b>Financial Criteria of Bid Evaluation Criteria</b>	<p>Bidder shall submit “Details of financial capability of Bidder” in prescribed format (F-10) duly signed and stamped by a chartered Accountant.</p> <p>Further, copy of audited Annual financial statements submitted in bid shall be duly certified / attested by a Chartered Accountant and Notary public with legible stamp.</p> <p><b>Practicing Chartered Accountants shall generate Unique Document Identification Number (UDIN) for all certificates issued by them as per provisions of tender document.</b></p> <p>However, UDIN may not be required for documents being attested by Chartered Accountants in terms of provision tender document.</p>

**In absence of requisite documents, BGCL reserves the right to reject the bid without making any reference to the bidder.**



**G** **EVALUATION METHODOLOGY:**

- A. The work order will be awarded based on the estimated quantity and rate published in the Expression of Interest (EOI).
- B. Bid evaluation shall be conducted in phases, ensuring systematic assessment.
- C. Contracts will be awarded on a first-come, first-serve basis.
- D. Bidders who are techno-commercially acceptable shall be awarded directly.
- E. There will be no Technical Queries (TQ) / Commercial Queries (CQ) during the bid evaluation process. However, **disqualified** bidders may resubmit their bids till validity of EOI.
- F. Existing LMC contractors awarded FOA after 01.03.2025 are not eligible to participate in this bidding process.

**H** **DISTRIBUTION OF WORK**

The total approved target of BGCL is 50000 DPNG connections and one bidder will be awarded 500 DPNG connections against EOI for a contract period of 06 months. While distributing the work as per above, quantities shall be rounded off suitably (wherever required) and the decision of BGCL shall be final in this regard.

**I** **PROCUREMENT FROM A BIDDER WHICH SHARES A LAND BORDER WITH INDIA**

*Not Applicable for this Tender*



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**Appendix-A3 to Section II**

**PROFORMA OF "BANK GUARANTEE" TOWARDS PERFORMANCE SECURITY /  
SECURITY DEPOSIT BY FOREIGN BASED SUPPORTING COMPANY OF THE BIDDING  
COMPANY**  
**CONTRACT PERFORMANCE SECURITY / SECURITY DEPOSIT**  
**(ON NON-JUDICIAL STAMP PAPER OF APPROPRIATE VALUE)**

To,

To, M/s BENGAL GAS COMPANY LIMITED 1st Floor, Block A, Finance Centre, CBD, Action Area – II B, Newtown, North 24 Parganas, Kolkata, West Bengal, India, Pin: 700161	<b>Bank Guarantee No.</b>	
	<b>Date of BG</b>	
	<b>BG Valid up to (Expiry date)</b>	
	<b>Claim period up to (indicate date of expiry of claim period which includes minimum three months from the expiry date)</b>	
	<b>Stamp Sl. No./e-Stamp Certificate No.</b>	

Dear Sir(s),

M/s. \_\_\_\_\_ having registered office at \_\_\_\_\_ (herein after called the "SUPPLIER" which expression shall wherever the context so require include its successors and assignees) have been placed/ awarded the job/work of \_\_\_\_\_ vide PO/LOA /FOA No. \_\_\_\_\_ dated \_\_\_\_\_ (herein after called CONTRACT) for Bengal Gas Company Limited having registered office at 1st Floor, Block A, Finance Centre, CBD, Action Area – II B, Newtown, North 24 Parganas, Kolkata, West Bengal, India, Pin: 700161 (herein after called the "BGCL" which expression shall wherever the context so require include its successors and assignees).

Further, M/s \_\_\_\_\_ (Name of the Supporting company) having its registered/head office at \_\_\_\_\_ based on whose experience/technical strength, the SUPPLIER has qualified for award of contract (hereinafter referred to as the 'SUPPORTING COMPANY') which expression shall, unless repugnant to the context or meaning thereof include all its successors, administrators, executors and assignees) has agreed to provide complete technical and other support to the SUPPLIER for successful completion of the contract as mentioned above, entered between BGCL and the SUPPLIER and BGCL having agreed that the 'SUPPORTING COMPANY' shall furnish to BGCL a performance guarantee for Indian Rupees/US\$ ..... towards providing complete financial and other support to the SUPPLIER for successful completion of the contract as mentioned above,

The said M/s. \_\_\_\_\_ (Supporting Company) 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 hereinafter mentioned.



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2. We (name of the bank) \_\_\_\_\_ registered under the laws of \_\_\_\_\_ having head/registered office at \_\_\_\_\_ (hereinafter referred to as "the Bank", which expression shall, unless repugnant to the context or meaning thereof, include all its successors, administrators, executors and permitted assignees) do hereby guarantee and undertake to pay immediately on first demand in writing any/all moneys to the extent of Indian Rs./US\$ (in figures) \_\_\_\_\_ (Indian Rupees/US Dollars (in words) \_\_\_\_\_) without any demur, reservation, contest or protest and/or without any reference to the 'SUPPORTING COMPANY'. Any such demand made by BGCL on the Bank by serving a written notice shall be conclusive and binding, without any proof, on the bank as regards the amount due and payable, notwithstanding any dispute(s) pending before any Court, Tribunal, Arbitrator or any other authority and/or any other matter or thing whatsoever, as liability under these presents being absolute and unequivocal. We agree that the guarantee herein contained shall be irrevocable and shall continue to be enforceable until it is discharged by BGCL in writing. This guarantee shall not be determined, discharged or affected by the liquidation, winding up, dissolution or insolvency of the 'SUPPORTING COMPANY' and shall remain valid, binding and operative against the bank.
3. The Bank also agrees that BGCL at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance, without proceeding against the 'SUPPORTING COMPANY' and notwithstanding any security or other guarantee that BGCL may have in relation to the 'SUPPORTING COMPANY's liabilities.
4. The Bank further agrees that BGCL shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said CONTRACT or to extend time of performance by the said SUPPLIER from time to time or to postpone for any time or from time to time exercise of any of the powers vested in BGCL against the said SUPPLIER/ and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said SUPPLIER or for any forbearance, act or omission on the part of BGCL or any indulgence by BGCL to the said SUPPLIER(s) or any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
5. The Bank further agrees that the Guarantee herein contained shall remain in full force during the period that is taken for the performance of the CONTRACT and all dues of BGCL under or by virtue of this CONTRACT have been fully paid and its claim satisfied or discharged or till BGCL discharges this guarantee in writing, whichever is earlier.
6. This Guarantee shall not be discharged by any change in our constitution, in the constitution of BGCL or that of the 'SUPPORTING COMPANY'.
7. The Bank confirms that this guarantee has been issued with observance of appropriate laws of the country of issue.
8. The Bank also agrees that this guarantee shall be governed and construed in accordance with Indian Laws and subject to the exclusive jurisdiction of Indian Courts of the place from where the purchase CONTRACT has been placed.
9. Notwithstanding anything contained hereinabove, our liability under this Guarantee is limited to Indian Rs./US\$ (in figures) \_\_\_\_\_ (Indian Rupees/US Dollars (in words) \_\_\_\_\_)



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- \_\_\_\_\_ only) and our guarantee shall remain in force until (indicate the date of expiry of bank guarantee) \_\_\_\_\_.
10. We have power to issue this guarantee in your favor under Memorandum and Articles of Association and the undersigned has full power to do under the Power of Attorney, dated \_\_\_\_\_ granted to him by the Bank.
11. Notwithstanding anything contained herein:
- a) The Bank's liability under this Guarantee shall not exceed (currency in figures) . . . . .  
. . . . . (currency in words only ) . . . . .
- b) This Guarantee shall remain in force upto \_\_\_\_\_ (this date should be expiry date of defect liability period of the Contract) and any extension(s) thereof; and
- c) The Bank shall be released and discharged from all liability under this Guarantee unless a written claim or demand is issued to the Bank on or before the midnight of .....(indicate date of expiry of claim period which includes minimum three months from the expiry of this Bank Guarantee) and if extended, the date of expiry of the last extension of this Guarantee. If a claim has been received by us within the said date, all the rights of BGCL under this Guarantee shall be valid and shall not cease until we have satisfied that claim.

Yours faithfully,

\_\_\_\_\_  
Bank by its Constituted Attorney

Signature of a person duly  
Authorized to sign on behalf of the  
Bank

E-mail :  
Telephone/Mobile No. :



**INSTRUCTIONS FOR FURNISHING**  
**"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 name of the issuing bank. In case of foreign bank, the said Bank Guarantee to be issued by its correspondent bank in India on requisite non-judicial stamp paper and place of Bid to be considered as Kolkata.
2. 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 Purchaser as per format appended below.
3. The Bank Guarantee shall be from any Indian scheduled bank (excluding Co-operative banks and Regional Rural bank) or a branch of an International bank situated in India and registered with Reserve bank of India as scheduled foreign bank. However, in case of bank guarantees from banks other than the Nationalised Indian banks, the bank must be a commercial bank having net worth in excess of 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.

1	BANK GUARANTEE NO	:					
2	VENDOR NAME / VENDOR CODE	:	<table border="1"><tr><td>NAME</td><td></td></tr><tr><td>VENDOR CODE</td><td></td></tr></table>	NAME		VENDOR CODE	
NAME							
VENDOR CODE							
3	BANK GUARANTEE AMOUNT	:					
4	PURCHASE ORDER/ LOA NO	:					
5	BG ISSUED BANK DETAILS]	:					
		(A)	EMAIL ID :				
		(B)	ADDRESS :				
		(C)	PHONE NO/ MOBILE NO. :				



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## **SECTION-III**

# **INSTRUCTION TO** **BIDDERS**

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

Click on link for ITB documents

**<https://bgcl.co.in/ProjectLmcEOI.html>**



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**ANNEXURE-IV to Section-III**

*BIDDING DATA SHEET (BDS)*

**ITB TO BE READ IN CONJUNCTION WITH THE FOLLOWING:**

<b>A. GENERAL</b>	
<b>ITB clause</b>	<b>Description</b>
<b>1.1</b>	The Employer/Owner is: Bengal Gas Company Limited
<b>1.2</b>	The name of the Works/Services to be performed is: SMALL LMC WORKS IN KOLKATA GA. The scope of work covers laying, testing and commissioning of underground Polyethylene (PE) pipelines of size ranging from 20 mm to 90 mm of approx 4.42 Km along with connectivity to 500 households as per SoR for City Gas Distribution Network. <b>Refer PJS &amp; Vol. II for details.</b>
<b>3.0</b>	BIDS FROM CONSORTIUM/ JOINT VENTURE  NOT APPLICABLE
<b>B. BIDDING DOCUMENT</b>	
<b>ITB clause</b>	<b>Description</b>
<b>8.1</b>	For <b><u>clarification purposes</u></b> only, the communication address is: Attention: HOD (PROJECT), BENGAL GAS COMPANY LIMITED 1st Floor, Block A, Finance Centre, CBD, Action Area – II B, Newtown, North 24 Parganas, Kolkata, West Bengal, India, Pin: 700161 Email ID: hodproject@bgcl.co.in <i>Note: Bidders are advised to mention tender no. &amp; tender subject in subject line of e-mail.</i>



C. PREPARATION OF BIDS													
ITB clause	Description												
11.1.1 (u)	Additional documents to be submitted by the Bidder with its Part-I (Techno-commercial/ Unpriced bid) : <b>Refer SCC/Scope of Work.</b>												
12	Additional Provision for Schedule of Rate/ Bid Price are as under: <u>Not Applicable.</u>												
12 & 13	<p>Whether BGCL will be able to avail input tax credit in the instant tender</p> <table border="1"> <tr> <td>YES</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>NO</td> <td><input checked="" type="checkbox"/></td> </tr> </table> <p>Details of Buyer:</p> <table border="1"> <tr> <td>Services to be rendered at</td> <td>Bengal Gas Company Limited, Kolkata (Other details shall be provided upon award)</td> </tr> <tr> <td>PAN No.</td> <td>AAACG1209J</td> </tr> <tr> <td>GST no.</td> <td>19AAICB1994M1Z0</td> </tr> <tr> <td>BGCL Bank details</td> <td>Refer below.</td> </tr> </table>	YES	<input checked="" type="checkbox"/>	NO	<input checked="" type="checkbox"/>	Services to be rendered at	Bengal Gas Company Limited, Kolkata (Other details shall be provided upon award)	PAN No.	AAACG1209J	GST no.	19AAICB1994M1Z0	BGCL Bank details	Refer below.
YES	<input checked="" type="checkbox"/>												
NO	<input checked="" type="checkbox"/>												
Services to be rendered at	Bengal Gas Company Limited, Kolkata (Other details shall be provided upon award)												
PAN No.	AAACG1209J												
GST no.	19AAICB1994M1Z0												
BGCL Bank details	Refer below.												
14	The currency of the Bid shall be INR												
15	The bid validity period shall be <b>06 months</b> from final 'Bid Due Date'.												
16.1, 16.10 and 38.6	<p>In case '<b>Earnest Money / Bid Security</b>' or "<b>Contract Performance Security</b>" is in the form of '<b>Demand Draft</b>' or '<b>Banker's Cheque</b>' or '<b>Insurance Surety Bond</b>' / '<b>Fixed Deposit Receipt</b>', the same should be favor of <b>Bengal Gas Company Limited</b>, payable at Kolkata.</p> <p>In case of submission through online banking transaction i.e. IMPS / NEFT / RTGS / SWIFT, etc, <b>the details of BGCL's Bank account are as under:</b></p> <p>Banker: Punjab National Bank  A/c No.: 1721202100000204  CORPORATE FINANCE BRANCH - KOLKATA  11, HEMANTA BASU SARANI, KOLKATA, 700001.  IFSC Code: PUNB0172120</p> <p>Bidder to mention reference no. "EMD/ " in narration while remitting the EMD / Bid Security amount and to mention reference no. "CPS/....." in narration while remitting the CPS amount in BGCL's Bank Account.</p>												



<b>D. SUBMISSION AND OPENING OF BIDS</b>					
<b>ITB clause</b>	<b>Description</b>				
<b>18</b>	In addition to the original of the Bid, the number of copies required is one. Not applicable in case of e-tendering.				
<b>22.3, 26 and 4.0 of IFB</b>	For <b>bid submission purposes</b> only (Manual) or the submission of physical document as per clause no. 4.0 of IFB, and <b>Bid Opening Purpose</b> the Owner's address is : <i>NOT APPLICABLE</i>				
<b>E. EVALUATION, AND COMPARISON OF BIDS</b>					
<b>ITB clause</b>	<b>Description</b>				
<b>32</b>	Evaluation Methodology is mentioned in Section-II.				
<b>33</b>	Compensation for Extended Stay: <table border="1" style="margin-left: auto; margin-right: auto;"> <tbody> <tr> <td>APPLICABLE</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td>NOT APPLICABLE</td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </tbody> </table>	APPLICABLE	<input checked="" type="checkbox"/>	NOT APPLICABLE	<input type="checkbox"/>
APPLICABLE	<input checked="" type="checkbox"/>				
NOT APPLICABLE	<input type="checkbox"/>				
<b>F. AWARD OF CONTRACT</b>					
<b>ITB clause</b>	<b>Description</b>				
<b>37</b>	State of India of which stamp paper is required for Contract Agreement: <b>Any state. However, the value of stamp paper shall be in accordance with stamp act.</b>				
<b>38</b>	Contract Performance Security/ Security Deposit <table border="1" style="margin-left: auto; margin-right: auto;"> <tbody> <tr> <td>APPLICABLE</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td>NOT APPLICABLE</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </tbody> </table> <p>The value/ amount of Contract Performance Security/ Security Deposit: SD / CPBG @ 10% of Annualized 'Order /Contract value' within 30 days of FOA/Notification of Award.</p>	APPLICABLE	<input checked="" type="checkbox"/>	NOT APPLICABLE	<input checked="" type="checkbox"/>
APPLICABLE	<input checked="" type="checkbox"/>				
NOT APPLICABLE	<input checked="" type="checkbox"/>				



बंगाल गैस कंपनी लललललटेड BENGAL GAS COMPANY LIMITED  
(गेल एलि जीसीजीएससीएल का संयुक्त उलि) (A JV Company of GAIL and GCGSCL)

	<b>Note:</b>  1) The Contract Performance Security/ Security Deposit shall be valid till completion of Warranty/ Guarantee period/Defect Liability period.				
<b>39.2</b>	Name and contact details of nodal officer are as under: Name- Somnath Das Contact Detail: 033 –23248078 Email ID: projmgr@bgcl.co.in				
<b>41</b>	Provision of AHR Item : <table border="1"><tr><td>APPLICABLE</td><td><input checked="" type="checkbox"/></td></tr><tr><td>NOT APPLICABLE</td><td><input type="checkbox"/></td></tr></table>	APPLICABLE	<input checked="" type="checkbox"/>	NOT APPLICABLE	<input type="checkbox"/>
APPLICABLE	<input checked="" type="checkbox"/>				
NOT APPLICABLE	<input type="checkbox"/>				
<b>44.1</b>	Quarterly Closure of Contract <table border="1"><tr><td>APPLICABLE</td><td><input checked="" type="checkbox"/></td></tr><tr><td>NOT APPLICABLE</td><td><input type="checkbox"/></td></tr></table>	APPLICABLE	<input checked="" type="checkbox"/>	NOT APPLICABLE	<input type="checkbox"/>
APPLICABLE	<input checked="" type="checkbox"/>				
NOT APPLICABLE	<input type="checkbox"/>				
<b>Clause no. 27.3 of GCC</b>	Bonus for Early Completion: <table border="1"><tr><td>APPLICABLE</td><td><input type="checkbox"/></td></tr><tr><td>NOT APPLICABLE</td><td><input checked="" type="checkbox"/></td></tr></table>	APPLICABLE	<input type="checkbox"/>	NOT APPLICABLE	<input checked="" type="checkbox"/>
APPLICABLE	<input type="checkbox"/>				
NOT APPLICABLE	<input checked="" type="checkbox"/>				
<b>49</b>	Applicability of provisions relating to Startups: <table border="1"><tr><td>APPLICABLE</td><td><input type="checkbox"/></td></tr><tr><td>NOT APPLICABLE</td><td><input checked="" type="checkbox"/></td></tr></table>	APPLICABLE	<input type="checkbox"/>	NOT APPLICABLE	<input checked="" type="checkbox"/>
APPLICABLE	<input type="checkbox"/>				
NOT APPLICABLE	<input checked="" type="checkbox"/>				



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(गेल एलि जीसीजीएससीएल का संयुक्त उलि) (A JV Company of GAIL and GCSCL)

# **FORMS & FORMAT**



LIST OF FORMS & FORMAT

Form No.	Description
F-1	BIDDER'S GENERAL INFORMATION INCLUDING Format F-1A (ANNEXURE TO BIDDER'S GENERAL INFORMATION)
F-2	PROFORMA OF "BANK GUARANTEE" FOR "EARNEST MONEY "
F-2A	PROFORMA OF DECLARATION FOR BID SECURITY
F-2B	THIRD PARTY DEPOSIT CONFIRMATION LETTER ON FDR SUBMISSION FOR EMD
F-2C	PROFORMA OF "INSURANCE SURETY BOND" FOR "EARNEST MONEY DEPOSIT/ BID SECURITY"
F-3	LETTER OF AUTHORITY
F-4	PROFORMA OF "BANK GUARANTEE" FOR "CONTRACT PERFORMANCE SECURITY / SECURITY DEPOSIT"
F-4A	THIRD PARTY DEPOSIT CONFIRMATION LETTER ON FDR SUBMISSION FOR CPS
F-4B	PROFORMA OF "INSURANCE SURETY BOND" FOR "CONTRACT PERFORMANCE SECURITY / SECURITY DEPOSIT"
F-5	AGREED TERMS & CONDITIONS
F-6	VOID
F-7	BIDDER'S EXPERIENCE
F-8	CHECK LIST
F-8B	VOID
F-9	VOID
F-10	FORMAT FOR CHARTERED ACCOUNTANT CERTIFICATE FOR FINANCIAL CAPABILITY OF THE BIDDER
F-11	VOID
F-12	VOID
F-13	E-BANKING FORMAT
F-14	VOID
F-15	INDEMNITY BOND



बंगाल गैस कंपनी ललललटेड BENGAL GAS COMPANY LIMITED  
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F-16	VOID
F-17	VOID
F-18	NO CLAIM CERTIFICATE



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**F-1**

**BIDDER'S GENERAL INFORMATION**

To,

M/s BENGAL GAS COMPANY LIMITED

1st Floor, Block A, Finance Centre, CBD, Action Area – II B, Newtown,  
North 24 Parganas, Kolkata, West Bengal, India, Pin: 700161

SUB.:

TENDER NO.:

1	Bidder Name	M/s.....
2	Status of Firm	Proprietorship Firm/Partnership firm/ Limited Liability Partnership (LLP) firm/Public Limited/ Pvt. Limited/ Govt. Dept. / PSU/ Others  If Others Specify: _____  [Enclose relevant certificates / partnership deed/certificate of Registration, as applicable]
3a	Name of Proprietor/Partners/Directors of the firm/company including their Father's Name and residential address, Aadhar No., Pan Card Details & DIN Nos.  [As per clause for 'One Bid Per Bidder' under Section-III of Tender Document]  A separate sheet (Format F-1A: Annexure to Bidder's General Information) is enclosed for providing the above details.	
3b	Name of Power of Attorney holders of bidder	
4	Number of Years in Operation	
5	Address of Registered Office:	
		City:



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(गेल एलि जीसीजीएससीएल का संयुक्त उलि) (A JV Company of GAIL and GCGSCL)

	*In case of Partnership firm, provide current address of the firm for ordering purpose	District: State: PIN/ZIP:
6	Bidder's address where order/contract is to be placed	City: District: State: PIN/ZIP:
7	Office responsible for executing the contract with GST no. * (In case supply of works are from multiple locations, addresses and GST no. of all such locations are to be provided).	City: District: State: PIN/ZIP: GST No.:
8	Telephone Number/ Mobile no. of address where order is to be placed	(Country Code) (Area Code) (Telephone No.)
9	E-mail address	
10	Website	
11	Mobile Number:	
12	ISO Certification, if any	{If yes, please furnish details}
13	PAN No.	
14	GST No. (refer sl. no. 7 above)	
15	EPF Registration No.	
16	ESI code No.	
17	Whether Micro or Small Enterprise	Yes / No (If Yes, Bidder to submit requisite documents as specified in ITB: Clause No. 40)
	Whether MSE is owned by SC/ST Entrepreneur(s)	Yes / No (If Yes, Bidder to submit requisite documents as specified in ITB: Clause No. 40)
	Whether MSE is owned by Women	Yes / No (If Yes, Bidder to submit requisite documents as specified in ITB: Clause No. 40)



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(गेल एलि जीसीजीएससीएल का संयुक्त उलि) (A JV Company of GAIL and GCGSCL)

	Whether payment is required through TReDS	Yes / No <i>If Yes, please provide the name of portal</i> .....
18	Whether Bidder is Startups or not	Yes / No <i>(If Yes, Bidder to submit requisite documents as specified in ITB: Clause No.50 )</i>
	In case of Start-up confirm the following: (i) Date of its incorporation/ registration [The certificate shall only be valid for the entity upto ten years from the date of its incorporation/ registration] (ii) Whether turnover for any financial years since incorporation/ registration has exceed Rs.100 Crores.	

Note: \* *BGCL intent to place the contract directly on the address from where Works are to be supplied. In case, bidder wants contract at some other address or Works are to be supplied from multiple locations, bidder is required to provide in their bid, the address on which contract is to be placed.*

Place: [Signature of Authorized Signatory of Bidder]  
Date: Name:  
Designation:  
Seal:

**Encl.:** Format F-1A (Annexure to Bidder's General Information)



बंगाल गैस कंपनी लललललटेड BENGAL GAS COMPANY LIMITED  
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Format F-1A

**Annexure to Bidder's General Information**

To,

M/s BENGAL GAS COMPANY LIMITED

1st Floor, Block A, Finance Centre, CBD, Action Area – II B, Newtown,  
North 24 Parganas, Kolkata, West Bengal, India, Pin: 700161

SUB.:

TENDER NO.:

Name of Bidder :

Sl. No.	Name of Proprietor/ Partners/ Directors	Father's Name	Residential Address	Aadhar No.	Pan Card Details	DIN Nos.

Note: The corresponding documents i.e. Aadhar, PAN & DIN etc. are also to be provided duly attested by Notary Public.

Place:

[Signature of Authorized Signatory of Bidder]

Date:

Name:

Designation:

Seal:



बंगाल गैस कंपनी लललललटेड BENGAL GAS COMPANY LIMITED  
(गेल एलि जीसीजीएससीएल का संयुक्त उलि) (A JV Company of GAIL and GCGSCL)

**FORMAT-2**

**PROFORMA OF "BANK GUARANTEE"  
FOR "EARNEST MONEY / BID SECURITY"**

(To be stamped in accordance with the Stamp Act)

To, M/s BENGAL GAS COMPANY LIMITED, 1st Floor, Block A, Finance Centre, CBD, Action Area – II B, Newtown, North 24 Parganas, Kolkata, West Bengal, India, Pin: 700161	<b>Bank Guarantee No.</b>	
	<b>Date of BG</b>	
	<b>BG Valid up to</b>	
	<b>Claim period up to (There should be three months gap between expiry date of BG &amp; Claim period)</b>	
	<b>Stamp Sl. No./e-Stamp Certificate No.</b>	

**Dear Sir(s),**

In accordance with Letter Inviting Tender under your reference No \_\_\_\_\_ M/s. \_\_\_\_\_ having their Registered / Head Office at \_\_\_\_\_ (hereinafter 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 Bengal Gas Company Limited, the amount \_\_\_\_\_ without any reservation, protest, demur and recourse. Any such demand made by BGCL, 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. \_\_\_\_\_ whose behalf this guarantee is issued.

In witness whereof the Bank, through its authorized officer, has set its hand and stamp on this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_\_ at \_\_\_\_\_.

Notwithstanding anything contained herein:

- The Bank's liability under this Guarantee shall not exceed (currency in figures) . . . . . (currency in words only) . . . . .
- This Guarantee shall remain in force upto \_\_\_\_\_ (this expiry date of BG should be two months beyond the validity of bid) and any extension(s) thereof; and
- The Bank shall be released and discharged from all liability under this Guarantee unless a written claim or demand is issued to the Bank on or before the midnight of \_\_\_\_\_ (indicate date of expiry of



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claim period which includes minimum three months from the expiry of this Bank Guarantee) and if extended, the date of expiry of the last extension of this Guarantee. If a claim has been received by us within the said date, all the rights of BGCL under this Guarantee shall be valid and shall not cease until we have satisfied that claim.

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.
2. The expiry date should be arrived at in accordance with "ITB: Clause-16.1".
3. The Bank Guarantee by bidders will be given from Bank as specified in "ITB: Clause-16.2".
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 / Phone from where the Earnest Money Bond has been issued as per proforma provided below.
6. If a Bank Guarantee is issued by a commercial Bank, then a letter to Employer confirming its net worth is more than Rs. 1,000,000,000.00 [Rupees One Hundred Crores] or equivalent along with documentary evidence or in the Bank Guarantee itself.



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Annexure

**MATTER TO BE MENTIONED IN COVERING LETTER TO BE SUBMITTED BY  
VENDOR ALONG WITH BANK GUARANTEE**

1	BANK GUARANTEE NO	:					
2	VENDOR NAME / VENDOR CODE	:	<table border="1"><tr><td>NAME</td><td></td></tr><tr><td>VENDOR CODE</td><td></td></tr></table>	NAME		VENDOR CODE	
NAME							
VENDOR CODE							
3	BANK GUARANTEE AMOUNT	:					
4	PURCHASE ORDER/ LOA NO	:					
5	NATURE OF BANK GUARANTEE (Please Tick (√) Whichever is Applicable)	:	<table border="1"><tr><td>PERFORMANCE BANK GUARANTEE</td><td>SECURITY DEPOSIT</td><td>EMD</td><td>ADVANCE</td></tr></table>	PERFORMANCE BANK GUARANTEE	SECURITY DEPOSIT	EMD	ADVANCE
PERFORMANCE BANK GUARANTEE	SECURITY DEPOSIT	EMD	ADVANCE				
6	BG ISSUED BANK DETAILS	:					
	(A)	EMAIL ID	:				
	(B)	ADDRESS	:				
	(C)	PHONE NO/ MOBILE NO.	:				



बंगाल गैस कंपनी लललललेड BENGAL GAS COMPANY LIMITED  
(गेल एलि जीसीजीएससीएल का संयुक्त उलि) (A JV Company of GAIL and GCGSCL)

FORMAT F-2A

DECLARATION FOR BID SECURITY

To,

M/s BENGAL GAS COMPANY LIMITED

1st Floor, Block A, Finance Centre, CBD, Action Area – II B, Newtown,  
North 24 Parganas, Kolkata, West Bengal, India, Pin: 700161

SUB.:

TENDER NO.:

Dear Sir

After examining / reviewing provisions of above referred tender documents (including all corrigendum/ 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 polices of BGCL 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 the BGCL during the period of bid validity:
  - (i) fail or refuse to execute the Contract, if required, or
  - (ii) fail or refuse to furnish the Contract Performance Security, in accordance provisions of tender document.
  - (iii) 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:

[Signature of Authorized Signatory of Bidder]

Date:

Name:

Designation:

Seal:



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F-2B

Third Party Deposit Confirmation Letter (On  
letter head from the issuing bank)

Date: \_\_\_ / \_\_\_ / \_\_\_

To,

M/s BENGAL GAS COMPANY LIMITED  
1st Floor, Block A, Finance Centre, CBD, Action Area – II B, Newtown,  
North 24 Parganas, Kolkata, West Bengal, India, Pin: 700161

Dear Sir/ Madam

**Sb: Issuance of Cumulative FDR..... amounting to ₹.....valid till.....**  
It is hereby certified that Cumulative Fixed Deposit Receipt (FDR) bearing  
number.....dated..... amounting to ₹..... (Amount in figure and  
words) has been issued by ..... (Name of the Bank) branch address.....The  
maturity value is ₹..... on dated.....

This FDR has been issued on the request of M/s (Name of the contractor) under the Tender  
no. .... This FDR can be encashed/ redeemed without any consent/ letter from the contractor  
M/s ..... (Name of the contractor) on the demand by M/s Bengal Gas Company  
Limited (BGCL) and the payment will be made to M/s Bengal Gas Company Limited  
excluding the interest earned thereon. The Contractor cannot encash/ premature above FDR  
unless above original FDR is accompanied by the discharge letter/NOC/approval of BGCL.

If the FDR is not withdrawn, till date of maturity, it may be renewed or treated as instructed by  
the Contractor & BGCL for renewal.

This FDR has been issued by authorized signatory of the Bank.

For or on behalf of ..... [Name of the Bank & Branch details (Including IFS  
Code)]

Signature.....

Name:.....

Designation:.....

Contact no. ....

Email Id. ....

Stamp of Bank.....

Note:

- (i) This letter forms an integrated part of FDR
- (ii) In case confirmation is required, the communication can be send to the following:  
Details for confirmations (including Address, Email Id, IFS Code and contact no.)



बंगाल गैस कंपनी लललललटेड BENGAL GAS COMPANY LIMITED  
(गेल एलि जीसीजीएससीएल का संयुक्त उलि) (A JV Company of GAIL and GCGSCL)

FORMAT F-2C

**PROFORMA OF "INSURANCE SURETY BOND" FOR "EARNEST MONEY DEPOSIT/ BID SECURITY"**

(To be stamped in accordance with the Stamp Act)

To, M/s Bengal Gas Company Limited _____	<b>Insurance Surety Bond No.</b>	
	<b>Date of ISB</b>	
	<b>ISB Valid up to (Expiry date)</b>	
	<b>Claim period up to (indicate date of expiry of claim period which includes minimum three months from the expiry date)</b>	
	<b>Stamp Sl. No./e-Stamp Certificate No.</b>	

Dear Sir(s),

In accordance with Tender Document under your reference No. \_\_\_\_\_ M/s. \_\_\_\_\_ having their Registered / Head Office at \_\_\_\_\_ (hereinafter called the Tenderer/Bidder), wish to participate in the said tender for \_\_\_\_\_

As an irrevocable Insurance Surety Bond against Earnest Money Deposit for the amount of \_\_\_\_\_ is required to be submitted by the bidder as a condition precedent for participation in the said Tender Document which amount is liable to be forfeited on the happening of any contingencies mentioned in the Tender Document.

We, the \_\_\_\_\_ [Name & address of the Insurer] at \_\_\_\_\_ having our Head Office \_\_\_\_\_ (Local Address) guarantee and undertake to pay immediately on demand without any recourse to the Bidder by Bengal Gas Company Limited (BGCL) , the amount \_\_\_\_\_ without any reservation, protest, demur and recourse. Any such demand made by Bengal Gas Company Limited, shall be conclusive and binding on us irrespective of any dispute or difference raised by the Bidder.

This Insurance Surety Bond 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 Insurance Surety Bond is required, the same shall be extended to such required period on receiving instructions from Bidder M/s. \_\_\_\_\_ on whose behalf this Insurance Surety Bond is issued.



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Notwithstanding anything contained herein:

a) The Insurer's liability under this Insurance Surety Bond shall not exceed (currency in figures) ..... (currency in words only) . . . . .

b) This Insurance Surety Bond shall remain in force upto \_\_\_\_\_(this expiry date of Insurance Surety Bond should be two months beyond the validity of bid) and any extension(s) thereof; and

c) The insurer shall be released and discharged from all liability under this Insurance Surety Bond unless a written claim or demand is issued to the insurer on or before the midnight of .....(indicate date of expiry of claim period which includes minimum three months from the expiry of this Insurance Surety Bond) and if extended, the date of expiry of the last extension of this Insurance Surety Bond. If a claim has been received by us within the said date, all the rights of Bengal Gas Company Limited (BGCL) under this Insurance Surety Bond shall be valid and shall not cease until we have satisfied that claim.

In witness whereof the insurer, through its authorized officer, has set its hand and stamp on this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_ at \_\_\_\_\_

Details of next Higher Authority of the Officials who have issued the Insurance Surety Bond:

Name .....

Designation .....

WITNESS:

1. \_\_\_\_\_  
 (SIGNATURE)

\_\_\_\_\_  
 (NAME)

\_\_\_\_\_  
 (OFFICIAL ADDRESS)

(SIGNATURE)

(NAME)

Designation with Insurer Stamp

E-Mail ID:

Telephone/Mobile No. :

Attorney as per

Power of Attorney No. \_\_\_\_\_

Date:

2. \_\_\_\_\_  
 (SIGNATURE)

\_\_\_\_\_  
 (NAME)

\_\_\_\_\_  
 (OFFICIAL ADDRESS)



**INSTRUCTIONS FOR FURNISHING "BID SECURITY DEPOSIT/ EARNEST MONEY" BY "INSURANCE SURETY BOND"**

- The Insurance Surety Bond shall be from an Insurer as per guidelines issued by Insurance Regulatory and Development Authority of India (IRDAI).
- The Employer shall be the Creditor, the Bidder shall be the Principal debtor and the Insurance company/Insurer shall be the Surety in respect of the Insurance Surety Bond to be issued by the Insurer.
- The Insurance Surety Bond should be on Non-Judicial stamp paper/e-stamp paper of appropriate value as per Stamp Act prevailing in the state(s) where the Insurance Surety Bond is submitted or is to be acted upon or the rate prevailing in State where the Insurance Surety Bond is executed, whichever is higher. The Stamp Paper/e-stamp paper shall be purchased in the name of Bidder/Insurer issuing the Insurance Surety Bond.
- The expiry date should be arrived at in accordance with "ITB: Clause-16.1".
- The Insurance Surety Bond by bidders will be given from Insurer as specified in "ITB: Clause-16.3".
- A letter from the issuing insurer of the requisite Insurance Surety Bond confirming that said Insurance Surety Bond / all future communication relating to the Insurance Surety Bond shall be forwarded to the Purchaser at its address as mentioned at "ITB".
- Bidder must indicate the full postal address of the Insurer along with the Insurer 's E-mail / Fax / Phone from where the Insurance Surety Bond has been issued.

**MATTER TO BE MENTIONED IN COVERING LETTER TO BE SUBMITTED BY VENDOR ALONG WITH INSURANCE SURETY BOND**

1	INSURANCE SURETY BOND NO	:				
2	VENDOR NAME / VENDOR CODE	:	NAME			
			VENDOR CODE			
			VENDOR EMAIL ID			
			VENDOR MOBILE NO			
3	INSURANCE SURETY BOND AMOUNT	:				
4	TENDER NO	:				
5	NATURE OF INSURANCE SURETY BOND	:				
	(Please Tick (√) Whichever is Applicable		PERFORMANCE INSURANCE SURETY BOND	SECURITY DEPOSIT	EMD	ADVANCE
6	INSURER DETAILS					
	(A)	EMAIL ID	:			

		(B)	ADDRESS :	
		(C)	PHONE NO :	



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**F-3**

**LETTER OF AUTHORITY**

[Pro forma for Letter of Authority for Attending 'Pre-Bid Meetings' /'Un-priced Bid Opening' /  
'Price Bid Opening']

Ref:

Date:

To,

M/s BENGAL GAS COMPANY LIMITED

1st Floor, Block A, Finance Centre, CBD, Action Area – II B, Newtown,  
North 24 Parganas, Kolkata, West Bengal, India, Pin: 700161

SUB.:

TENDER NO.:

Dear Sir,

I/We, \_\_\_\_\_ hereby authorize the following  
representative(s) for attending any 'Meetings [Pre-Bid Meeting]', 'Un-priced Bid Opening', and  
'Price Bid Opening' against the above Tender Documents:

[1] Name & Designation \_\_\_\_\_ Signature \_\_\_\_\_

Phone/Cell:

E-mail: ..... @ .....

[2] Name & Designation \_\_\_\_\_ Signature \_\_\_\_\_

Phone/Cell:

E-mail: ..... @ .....

We confirm that we shall be bound by all commitments made by aforementioned authorised  
representative(s).

Place:

[Signature of Authorized Signatory of Bidder]

Date:

Name:

Designation:

Seal:

Note:

- (i) This "Letter of Authority" should be on the "**letterhead**" of the Bidder and should be signed by a person competent and having the 'Power of Attorney' to bind the Bidder. Not more than 'two [02] persons per Bidder' are permitted to attend 'Pre-Bid Meetings' /'Un-priced Bid Opening' / 'Price Bid Opening'.
- (ii) Bidder's authorized representative is required to carry a copy of this authority letter while attending the 'Pre-Bid Meetings' /'Un-priced Bid Opening'.



**F-4**

**PROFORMA OF "BANK GUARANTEE" FOR "CONTRACT PERFORMANCE SECURITY / SECURITY DEPOSIT"**

**(ON NON-JUDICIAL STAMP PAPER OF APPROPRIATE VALUE)**

To, M/s BENGAL GAS COMPANY LIMITED 1st Floor, Block A, Finance Centre, CBD, Action Area – II B, Newtown, North 24 Parganas, Kolkata, West Bengal, India, Pin: 700161	<b>Bank Guarantee No.</b>	
	<b>Date of BG</b>	
	<b>BG Valid up to</b>	
	<b>Claim period up to (There should be three months gap between expiry date of BG &amp; Claim period)</b>	
	<b>Stamp Sl. No./e-Stamp Certificate No.</b>	

Dear Sir(s),

M/s. \_\_\_\_\_ having registered office at \_\_\_\_\_ (herein after called the “contractor” which expression shall wherever the context so require include its successors and assignees) have been placed/ awarded the job/work of \_\_\_\_\_ vide LOA /FOA No. \_\_\_\_\_ dated \_\_\_\_\_ for Bengal Gas Company Limited having registered office at 1st Floor, Block A, Finance Centre, CBD, Action Area – II B, Newtown, North 24 Parganas, Kolkata, West Bengal, India, Pin: 700161 (herein after called the “BGCL” which expression shall wherever the context so require include its successors and assignees).

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 guarantee executed by Nationalized Bank/Scheduled Commercial Bank, undertaking full responsibility to indemnify Bengal Gas Company Limited, in case of default.

The said M/s. \_\_\_\_\_ 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 hereinafter mentioned.

1. We \_\_\_\_\_ hereby undertake to give the irrevocable & unconditional guarantee to you that if default shall be made by M/s. \_\_\_\_\_ in performing any of the terms and conditions of the tender/order/contract or in payment of any money payable to Bengal Gas Company Limited we shall on first demand pay without demur, contest, protest and/ or without any recourse to the contractor to BGCL in such manner as BGCL may direct the said amount of Rupees \_\_\_\_\_ only or such portion thereof not exceeding the said 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, postpone for any time or from time to time the exercise of any of the powers and rights



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conferred on you under the order/contract with the said \_\_\_\_\_ M/s. \_\_\_\_\_ and to enforce or to forbear from endorsing any powers or rights or by reason of time being given to the said M/s. \_\_\_\_\_ 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 manner aforesaid is absolute & unequivocal and will not be affected or suspended by reason of the fact that any dispute or disputes have been raised by the said M/s. \_\_\_\_\_ and/or that any dispute or disputes are pending before any officer, tribunal or court or arbitrator or any other authority/forum 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 with reference to matter aforesaid or any of their or by reason or any other act of omission or 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 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. The bank undertakes not to revoke this guarantee during its currency without your previous consent and further agrees that the guarantee shall continue to be enforceable until it is discharged by BGCL in writing. However, if for any reason, the contractor is unable to complete the work within the period stipulated in the order/contract and in case of extension of the date of delivery/completion resulting extension of defect liability period/guarantee period of the contractor fails to perform the work fully, the bank hereby agrees to further extend this guarantee at the instance of the contractor till such time as may be determined by BGCL. 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. Bank also agrees that BGCL at its option shall be entitled to enforce this Guarantee against the bank (as principal debtor) in the first instant, without proceeding against the contractor and notwithstanding any security or other guarantee that BGCL may have in relation to the contractor's liabilities.
7. The amount under the Bank Guarantee is payable forthwith without any delay by Bank upon the written demand raised by BGCL. Any dispute arising out of or in relation to the said Bank Guarantee shall be subject to the exclusive jurisdiction of courts at Kolkata.
8. Therefore, we hereby 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) and we undertake to pay you, upon your first written demand declaring the Contractor to be in default under the order/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.



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9. We have power to issue this guarantee in your favor under Memorandum and Articles of Association and the undersigned has full power to do under the Power of Attorney, dated \_\_\_\_\_ granted to him by the Bank.
10. Notwithstanding anything contained herein:
- a) The Bank's liability under this Guarantee shall not exceed (currency in figures) . . . . . (currency in words only ) . . . . .
- b) This Guarantee shall remain in force upto \_\_\_\_\_ (this date should be expiry date of defect liability period of the Contract) and any extension(s) thereof; and
- c) The Bank shall be released and discharged from all liability under this Guarantee unless a written claim or demand is issued to the Bank on or before the midnight of .....(indicate date of expiry of claim period which includes minimum three months from the expiry of this Bank Guarantee) and if extended, the date of expiry of the last extension of this Guarantee. If a claim has been received by us within the said date, all the rights of BGCL under this Guarantee shall be valid and shall not cease until we have satisfied that claim.

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 name of the issuing bank.
2. The Bank Guarantee by Bidders will be given from bank as specified in cl.no. 38.3 of ITB [Section-III] of Tender Document.
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 Employer.
4. If a Bank Guarantee is issued by a commercial bank, then a letter to Employer and copy to 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 alongwith documentary evidence OR in the Bank Guarantee itself.
5. Contractor shall submit attached cover letter (Annexure) while submitting Contract Performance Security



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Annexure

**MATTER TO BE MENTIONED IN COVERING LETTER TO BE SUBMITTED BY  
VENDOR ALONG WITH BANK GUARANTEE**

1	BANK GUARANTEE NO	:					
2	VENDOR NAME / VENDOR CODE	:	<table border="1"><tr><td>NAME</td><td></td></tr><tr><td>VENDOR CODE</td><td></td></tr></table>	NAME		VENDOR CODE	
NAME							
VENDOR CODE							
3	BANK GUARANTEE AMOUNT	:					
4	PURCHASE ORDER/ LOA NO	:					
5	NATURE OF BANK GUARANTEE (Please Tick (✓) Whichever is Applicable	:	<table border="1"><tr><td>PERFORMANCE BANK GUARANTEE</td><td>SECURITY DEPOSIT</td><td>EMD</td><td>ADVANCE</td></tr></table>	PERFORMANCE BANK GUARANTEE	SECURITY DEPOSIT	EMD	ADVANCE
PERFORMANCE BANK GUARANTEE	SECURITY DEPOSIT	EMD	ADVANCE				
6	BG ISSUED BANK DETAILS	:	(A) EMAIL ID :  (B) ADDRESS :  (C) PHONE NO/ MOBILE NO. :				



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F-4A

Third Party Deposit Confirmation Letter (on  
letter head from the issuing bank)

Date: \_\_\_/\_\_\_/\_\_\_

To,

M/s BENGAL GAS COMPANY LIMITED  
1st Floor, Block A, Finance Centre, CBD, Action Area – II B, Newtown,  
North 24 Parganas, Kolkata, West Bengal, India, Pin: 700161

Dear Sir/ Madam

**Sb: Issuance of Cumulative FDR..... amounting to ₹.....valid till.....**  
It is hereby certified that Cumulative Fixed Deposit Receipt (FDR) bearing  
number.....dated..... amounting to ₹..... (Amount in figure and  
words) has been issued by ..... (Name of the Bank) branch address..... The  
maturity value is ₹..... on dated.....

This FDR has been issued on the request of M/s .....(Name of the contractor) under  
the PO no. / W.O. No.....This FDR can be encashed/  
redeemed without any consent/ letter from the contractor M/s .....(Name of the  
contractor) on the demand by M/s Bengal Gas Company Limited (BGCL) and the payment will  
be made to M/s Bengal Gas Company Limited excluding the interest earned thereon. The  
Contractor cannot encash/ premature above FDR unless above original FDR is accompanied by  
the discharge letter/NOC/approval of BGCL.

If the FDR is not withdrawn, till date of maturity, it may be renewed or treated as instructed  
by the Contractor & BGCL for renewal.

This FDR has been issued by authorized signatory of the Bank.

For or on behalf of ..... [Name of the Bank & Branch details (Including IFS  
Code)]

Signature.....

Name:.....

Designation:.....

Contact no. ....

EmailId. ....

Stamp of Bank.....

Note:

- (i) This letter forms an integrated part of FDR.
- (ii) In case confirmation is required, the communication can be send to the following:  
Details for confirmations (including Address, Email Id, IFS Code and contact no.)



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**F-4B**

**PROFORMA OF "INSURANCE SURETY BOND" FOR "CONTRACT PERFORMANCE SECURITY / SECURITY DEPOSIT"**

**(ON NON-JUDICIAL STAMP PAPER OF APPROPRIATE VALUE)**

To, M/s Bengal Gas Company Limited  _____	<b>Insurance Surety Bond No.</b>	
	<b>Date of Insurance Surety Bond</b>	
	<b>Insurance Surety Bond Valid up to (Expiry date)</b>	
	<b>Claim period up to (indicate date of expiry of claim period which includes minimum three months from the expiry date)</b>	
	<b>Stamp Sl. No./e-Stamp Certificate No.</b>	

Dear Sir(s),

M/s. \_\_\_\_\_ having registered office at \_\_\_\_\_ (herein after called the "contractor/supplier" which expression shall wherever the context so require include its successors and assignees) have been placed/awarded the job/work of \_\_\_\_\_ vide PO/LOA /FOA No. \_\_\_\_\_ dated \_\_\_\_\_ for Bengal Gas Company Limited having registered office at 1<sup>ST</sup> Floor, Block-A, Finance Centre, CBD Action Area-II B, Newtown, Kolkata-700161 (herein after called the "BGCL" which expression shall wherever the context so require include its successors and assignees).

The Contract conditions provide that the SUPPLIER/CONTRACTOR shall pay a sum of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) as full Contract Performance Guarantee in the form therein mentioned. The form of payment of Insurance Surety Bond executed by Insurer, undertaking full responsibility to indemnify BENGAL GAS COMPANY LIMITED, in case of default.

The said M/s. \_\_\_\_\_ 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 hereinafter mentioned.

1. We \_\_\_\_\_ hereby undertake to give the irrevocable & unconditional Insurance Surety Bond to you that if default shall be made by M/s. \_\_\_\_\_ in performing any of the terms and conditions of the tender/order/contract or in payment of any money payable to BENGAL GAS COMPANY LIMITED we shall on first demand pay without demur, contest, protest and/or without any recourse to the contractor to BGCL in such manner as BGCL may direct the said amount of Rupees \_\_\_\_\_ only or such portion thereof not exceeding the said sum as you may require from time to time.
2. You will have the full liberty without reference to us and without affecting this Insurance Surety



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Bond, postpone for any time or from time to time the exercise of any of the powers and rights conferred on you under the order/contract with the said M/s \_\_\_\_\_ and to enforce or to forbear from endorsing any powers or rights or by reason of time being given to the said M/s. \_\_\_\_\_ and such postponement forbearance would not have the effect of releasing the insurer from its obligation under this debt.

3. Your right to recover the said sum of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) from us in manner aforesaid is absolute & unequivocal and will not be affected or suspended by reason of the fact that any dispute or disputes have been raised by the said M/s. \_\_\_\_\_ and/or that any dispute or disputes are pending before any officer, tribunal or court or arbitrator or any other authority/forum and any demand made by you in the insurer shall be conclusive and binding. The insurer shall not be released of its obligations under these presents by any exercise by you of its liberty with reference to matter aforesaid or any of their or by reason or any other act of omission or 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 insurer.
4. The Insurance Surety Bond herein contained shall not be determined or affected by the liquidation or winding up dissolution or changes of constitution or insolvency of the said supplier/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. The insurer undertakes not to revoke this Insurance Surety Bond during its currency without your previous consent and further agrees that the Insurance Surety Bond shall continue to be enforceable until it is discharged by BGCL in writing. However, if for any reason, the supplier/contractor is unable to complete the supply/work within the period stipulated in the order/contract and in case of extension of the date of delivery/completion resulting extension of defect liability period/guarantee period of the supplier/contractor fails to perform the supply/work fully, the insurer hereby agrees to further extend this Insurance Surety Bond at the instance of the supplier/contractor till such time as may be determined by BGCL. If any further extension of this Insurance Surety Bond is required, the same shall be extended to such required period on receiving instruction from M/s. \_\_\_\_\_ (contractor) on whose behalf this Insurance Surety Bond is issued.
6. Insurer also agrees that BGCL at its option shall be entitled to enforce this Insurance Surety Bond against the insurer (as principal debtor) in the first instant, without proceeding against the supplier/contractor and notwithstanding any security or other guarantee that BGCL may have in relation to the supplier's/contractor's liabilities.
7. The amount under the Insurance Surety Bond is payable forthwith without any delay by insurer upon the written demand raised by BGCL. Any dispute arising out of or in relation to the said Insurance Surety Bond shall be subject to the exclusive jurisdiction of courts at Kolkata.
8. Therefore, we hereby affirm that we are guarantors and responsible to you on behalf of the Supplier/Contractor up to a total amount of \_\_\_\_\_ (amount of guarantees in words and figures) and we undertake to pay you, upon your first written demand declaring the

Supplier/Contractor to be in default under the order/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 power to issue this Insurance Surety Bond in your favor under Memorandum and Articles of Association and the undersigned has full power to do under the Power of Attorney, dated \_\_\_\_\_ granted to him by the Insurer.

10. Notwithstanding anything contained herein:

a) The Insurer's liability under this Insurance Surety Bond shall not exceed (currency in figures) ..... (currency in words only) .....

b) This Insurance Surety Bond shall remain in force upto \_\_\_\_\_ (this date should be expiry date of defect liability period of the Contract) and any extension(s) thereof; and

c) The Insurer shall be released and discharged from all liability under this Insurance Surety Bond unless a written claim or demand is issued to the Insurer on or before the midnight of ..... (indicate date of expiry of claim period which includes minimum three months from the expiry of this Insurance Surety Bond) and if extended, the date of expiry of the last extension of this Insurance Surety Bond. If a claim has been received by us within the said date, all the rights of BGCL under this Insurance Surety Bond shall be valid and shall not cease until we have satisfied that claim.

Details of next Higher Authority of the Officials who have issued the Insurance Surety Bond:

Name .....

Designation .....

Yours faithfully,

\_\_\_\_\_  
Insurer by its Constituted Attorney

Signature of a person duly  
Authorized to sign on behalf of the Insurer

---

**INSTRUCTIONS FOR FURNISHING**  
**"CONTRACT PERFORMANCE SECURITY / SECURITY DEPOSIT" BY "INSURANCE SURETY BOND"**

- a) The Insurance Surety Bond shall be from an Insurer as per guidelines issued by Insurance Regulatory and Development Authority of India (IRDAI).
- b) The Employer shall be the Creditor, the Bidder shall be the Principal debtor and the Insurance company/Insurer shall be the Surety in respect of the Insurance Surety Bond to be issued by the Insurer.
- c) The Insurance Surety Bond should be on Non-Judicial stamp paper/e-stamp paper of appropriate value as per Stamp Act prevailing in the state(s) where the Insurance Surety Bond is submitted or is to be acted upon or the rate prevailing in State where the Insurance Surety Bond is executed, whichever is higher. The Stamp Paper/e-stamp paper shall be purchased in the name of Bidder/Insurer issuing the Insurance Surety Bond.

- d) The Insurance Surety Bond 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 name of the issuing Insurer.
- e) The Insurance Surety Bond by Bidders will be given from insurer as specified in cl.no. 38.2 of ITB [Section-III] of Tender Document.
- f) A letter from the issuing insurer of the requisite Insurance Surety Bond confirming that said Insurance Surety Bond and all future communication relating to the Insurance Surety Bond shall be forwarded to Purchaser.
- g) Supplier shall submit attached cover letter (Annexure) while submitting Contract Performance Security / Security Deposit.

**MATTER TO BE MENTIONED IN COVERING LETTER TO BE SUBMITTED BY VENDOR  
ALONG WITH INSURANCE SURETY BOND**

1	<b>INSURANCE SURETY BOND NO</b>	:				
2	<b>VENDOR NAME / VENDOR CODE</b>	:	<b>NAME</b>			
			<b>VENDOR CODE</b>			
			<b>VENDOR EMAIL ID</b>			
			<b>VENDOR MOBILE NO</b>			
3	<b>INSURANCE SURETY BOND AMOUNT</b>	:				
4	<b>PURCHASE ORDER/ LOA NO</b>	:				
5	<b>NATURE OF INSURANCE SURETY BOND</b>	:				
	<b>(Please Tick (√) Whichever is Applicable</b>		<b>PERFORMANC E INSURANCE SURETY BOND</b>	<b>SECURITY DEPOSIT</b>	<b>E M D</b>	<b>ADVA NCE</b>
6	<b>INSURER DETAILS</b>	( A )	<b>EMAIL ID</b>	:		
		( B )	<b>ADDRESS</b>	:		
		( C )	<b>PHONE NO</b>	:		



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(गेल एलि जीसीजीएससीएल का संयुक्त उलि) (A JV Company of GAIL and GCGSCL)

**F-5**

**AGREED TERMS & CONDITIONS**

To,

M/s BENGAL GAS COMPANY LIMITED

1st Floor, Block A, Finance Centre, CBD, Action Area – II B, Newtown,  
North 24 Parganas, Kolkata, West Bengal, India, Pin: 700161

SUB.:

TENDER NO.:

This Questionnaire duly filled in, signed & stamped must form part of Bidder's Bid and should be returned along with Un-priced Bid. Clauses confirmed hereunder need not be repeated in the Bid.

Sl.	DESCRIPTION	BIDDER'S CONFIRMATION
1	Bidder's name, Vendor Code of BGCL (if any) and address (FOA/Order shall be released in this name)	Bidder's name : BGCL's Vendor Code: Address:
2.	Bidder confirms the currency of quoted prices is in Indian Rupees.	
3.	Bidder confirms quoted prices will remain firm and fixed till complete execution of the order (except where price escalation/variation is allowed in the Tender).	
4	Bidder confirms that they have quoted <b>GST (CGST &amp; SGST/ UTGST or IGST )</b> in Price Schedule/ SOR of Price bid.	
4.1	Whether in the instant tender services/works are covered in reverse charge rule of <b>GST (CGST &amp; SGST/UTGST or IGST)</b>  If yes, Bidder confirms that they have quoted rate of applicable GST (CGST & SGST/ UTGST or IGST) in Price Schedule / Schedule of Rates of Price Bid	Yes/ No
4.2	Bidder confirms that they have mentioned Harmonized System Nomenclature (HSN)/Service Accounting Code (SAC) in Price Bid	
4.3	Bidder hereby confirms that the quoted prices are in compliance with the Section 171 of CGST Act/ SGST Act as mentioned as clause no. 13.10 of ITB (Anti-profiteering clause).	
4.4	Whether bidder is liable to raise E-Invoice as per GST Act.	



बंगाल गैस कंपनी लललललटेड BENGAL GAS COMPANY LIMITED  
(गेल एलि जीसीजीएससीएल का संयुक्त उलि) (A JV Company of GAIL and GCGSCL)

Sl.	DESCRIPTION	BIDDER'S CONFIRMATION
	If yes, bidder will raise E-Invoice and confirm compliance to provision of tender in this regard.	
5.	Bidder confirms acceptance of relevant Terms of Payment specified in the Bid Document.	
6.	Bidder confirms that Contract Performance Security will be furnished as per Bid Document within 30 days of FOA in case of successful bidder.	
7.	Bidder confirms that Contract Performance Security shall be from any Indian scheduled bank (excluding Co-operative banks and Regional Rural bank) or a branch of an International bank situated in India and registered with Reserve bank of India as scheduled foreign bank. However, in case of bank guarantees from banks other than the Nationalised Indian banks, the bank must be a commercial bank having net worth in excess of 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.	Bidders confirms compliance to Completion Schedule as specified in Bid document and the same shall be reckoned from the date of Fax of Acceptance.	
9.	Bidders confirms acceptance of Price Reduction Schedule for delay in completion schedule specified in Bid document. In case of delay, the bills / invoices shall be submitted after reducing the price reduction due to delay (refer PRS Clause).	
10.	a) Bidder confirms acceptance of all terms and conditions of Bid Document (all sections). b) Bidder confirms that printed terms and conditions of bidder are not applicable.	
11.	Bidder confirms their offer is valid for period specified in BDS from Final/Extended due date of opening of Techno-commercial Bids.	
12.	Bidder have furnished EMD/Bid Security details as under: a) EMD/ Bid Security No. & date b) Value c) Validity d) Bank Address/e-mail ID/Mobile no. [in case of BG] <b>OR</b> Bidder furnishes bid security declaration [applicable for MSEs, Start-Ups and CPSEs (to whom exemption is allowed as per extant guidelines in vogue)]	



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Sl.	DESCRIPTION	BIDDER'S CONFIRMATION
13.	As per requirement of tender, bidder (having status as Pvt. Ltd. or Limited company) must upload bid duly digitally signed on e-portal through class-3B digital signature (DS). In case, class of DS or name of employee or name of employer is not visible in the digitally signed documents, the bid digitally signed as submitted by the person shall be binding on the bidder.	
14.	Bidder confirms that (i) none of Directors (in Board of Director) of bidder is a relative of any Director (in Board of Director) of BGCL or (ii) the bidder is not a firm in which any Director (in Board of Director) of BGCL or their relative is a partner.	
15.	All correspondence must be in ENGLISH language only.	
16.	The contents of this Tender Document have not been modified or altered by Bidder. In case, it is found that the tender document has been modified / altered by the bidder, the bid submitted by them shall be liable for rejection.	
17.	Bidder confirms that all Bank charges associated with Bidder's Bank regarding release of payment etc. shall be borne by Bidder.	
18.	<u>No Deviation Confirmation:</u> It may be note that any 'deviation / exception' in any form may result in rejection of Bid. Therefore, Bidder confirms that they have not taken any 'exception / deviation' anywhere in the Bid. In case any 'deviation / exception' is mentioned or noticed, Bidder's Bid may be rejected.	
19.	If the Bidder becomes a successful Bidder pursuant to the provisions of the Tender Document, the following Confirmation shall be automatically become enforceable:  "We agree and acknowledge that the Employer is entering into the Contract/Agreement solely on its own 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 Contract/Agreement and has no liabilities, obligations or rights thereunder. It is expressly understood and agreed that the Purchaser is authorized to enter into Contract/Agreement, solely on its own behalf under the applicable laws of India. We expressly agree, acknowledge and understand that the Purchaser is not an agent, representative or delegate of the Government of India. It is	



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Sl.	DESCRIPTION	BIDDER'S CONFIRMATION
	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 hereby expressly waive, release and forego any and all 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 to Government of India as to any manner, claim, cause of action or things whatsoever arising of or under the Agreement."	
20.	Bidder to ensure all documents as per tender including clause 11 of Section III and all Formats are included in their bid	
21.	Bidder understands that Tender Document is not exhaustive. In case any activity though specifically not covered in description of 'Schedule of Rates' but is required to complete the work as per Scope of Work, Conditions of Contract, or any other part of Bidding document, the quoted rates will deemed to be inclusive of cost incurred for such activities unless otherwise specifically excluded. Bidder confirms to perform for fulfilment of the contract and completeness of the supplies in all respect within the scheduled time frame and quoted price.	
22.	<p>Bidder hereby confirms that they are not on 'Holiday' by BGCL or Public Sector Project Management Consultant (like EIL, Mecon only due to "poor performance" or "corrupt and fraudulent practices") or banned by Government department/ Public Sector on due date of submission of bid.</p> <p>Further, Bidder confirms that neither they nor their allied agency/(ies) (as defined in the Procedure for Action in case of Corrupt/ Fraudulent/ Collusive/ Coercive Practices) are on banning list of BGCL or the Ministry of Petroleum and Natural Gas.</p> <p>Bidder also confirms that they are not under any liquidation, court receivership or similar proceedings or 'bankruptcy'.</p> <p>In case it comes to the notice of BGCL that the bidder has given wrong declaration in this regard, the same shall be dealt as 'fraudulent practices' and action shall be initiated as per the Procedure for action in case of Corrupt/Fraudulent/Collusive/Coercive Practices.</p>	



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Sl.	DESCRIPTION	BIDDER'S CONFIRMATION
	Further, Bidder also confirms that in case there is any change in status of the declaration prior to award of contract, the same will be promptly informed to BGCL by them.	
23.	Bidder confirms that they have read and understood the General Conditions of Contract - available at SECTION-IV & no 'exception / deviation' anywhere has been taken in the same and that they shall abide by provisions of relevant GCC.	
24.	Bidder certifies that they would adhere to the Fraud Prevention Policy of BGCL [available at BGCL website] and shall not indulge themselves or allow others (working in BGCL) to indulge in fraudulent activities and that they would immediately apprise BGCL of the fraud/suspected fraud as soon as it comes to their notice. Concealment of facts regarding their involvement in fraudulent activities in connection with the business transaction(s) of BGCL is liable to be treated as crime and dealt with by the procedures of BGCL as applicable from time to time.	
25.	Bidder confirms that (i) any variation in GST at the time of supplies for any reasons, other than statutory, including variations due to turnover, shall be borne by them and (ii) any error of interpretation of applicability of rate of GST (CGST & SGST/ UTGST or IGST) on components of an item and/or various items of tender by them shall be dealt as per clause no. 13.13 of Section-III.	
26.	Bidders confirm to submit signed copy of Integrity Pact (wherever included in tender).  If Bidder is a partnership concern or a consortium, this agreement must be signed by all partners or consortium members.	
27.	Bidder confirms that there is no conflict of interest with other bidders, as per clause no.4.2 of Section-III (ITB) of Tender Document.	
28.	Bidder confirms that, in case of contradiction between the confirmations provided in this format and to the terms & conditions mentioned elsewhere in the offer, the confirmations given in this format shall prevail.	

Place:

[Signature of Authorized Signatory of Bidder]

Date:

Name:

Designation:

Seal:



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**BIDDER'S EXPERIENCE**

To,  
M/s BENGAL GAS COMPANY LIMITED  
1st Floor, Block A, Finance Centre, CBD, Action Area – II B, Newtown,  
North 24 Parganas, Kolkata, West Bengal, India, Pin: 700161

SUB.:

TENDER NO.:

Sl. No	Description of the Services	LOA /WO No. and date	Full Address & phone nos. of Client. <i>Name, designation and address of Engineer/ Officer-in-Charge (for cases other than purchase)</i>	Postal	Value of Contract/Order ( <i>Specify Currency Amount</i> )	Date of Commencement of Services	Scheduled Completion Time (Months)	Date of Actual Completion	Reasons for delay in execution, if any
(1)	(2)	(3)	(5)		(6)	(7)	(8)	(9)	(10)

Place:

[Signature of Authorized Signatory of Bidder]

Date:

Name:

Designation:

Seal:

**Note: As per cl.no.D of Section-II, only documents (Work Order, Completion certificate, Execution Certificate etc.) which have been referred/ specified in the bid shall be considered in reply to queries during evaluation of Bids.**



F-8 (A) CHECK  
LIST

Bidders are requested to duly fill in the checklist. This checklist gives only certain important items to facilitate the bidder to make sure that the necessary data/information as called for in the bid document has been submitted by them along with their offer. This, however, does not relieve the bidder of his responsibilities to make sure that his offer is otherwise complete in all respects.

Please ensure compliance and tick (✓) against following points:

S. No.	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 offer, original bidding document including SCC, ITB, GCC ,SOR drawings, corrigendum (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	EMD / Declaration for Bid Security [as applicable] as per provisions of Tender		
iii	Digitally signed (in case of e-tendering) or 'signed & stamped (in case of Manual tender) tender document along with drawings and addendum (if any)		
iv	Power of Attorney in the name of person signing the bid.		
v	Confirm submission of document alongwith unpriced bid as per bid requirement (including cl.no.11.1.1 of Section-III).		
3.0	Confirm that all format duly filled in are enclosed with the bid duly Digitally Signed (in case of e-bidding)/ Signed and Stamped (in case of manual bidding) by authorised person(s)		
4.0	Confirm that the price part as per Price Schedule format submitted with Bidding Document/ uploaded in case of e-bid.		
5.0	Confirm that Undertaking as per Form-2 to Annexure-V to Section-III and Certification from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of other than companies) as per Form-3 to Annexure-V to Section-III are submitted.		



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6.0	Confirm that Undertaking as per Form-I-A, Form-I-B & Form-II to Section-II have been submitted by the bidder (Guidelines from Procurement from a Country sharing a Land Border with India)		
7.0	Confirm submission of Checklist against Bid Evaluation Criteria as per format F-8(B)		
8.0	Confirm that declaration as per <b>Annexure-II to Section-II</b> have been submitted by the bidder (Restricting participation of NCLT referred bidders)		

Place:

Date:

[Signature of Authorized Signatory of Bidder]

Name:

Designation:



बंगाल गैस कंपनी लललललेडे BENGAL GAS COMPANY LIMITED  
(गेल एलि जीसीजीएससीएल का संयुक्त उलि) (A JV Company of GAIL and GCGSCL)

**F-10**

**FORMAT FOR CHARTERED ACCOUNTANT CERTIFICATE/ CERTIFIED PUBLIC ACCOUNTANT (CPA) FOR FINANCIAL CAPABILITY OF THE BIDDER**

We have verified the Audited. Financial Statements and other relevant records of M/s .....(Name of the bidder) and certify the following:

**A. AUDITED ANNUAL TURNOVER\* OF LAST 3 YEARS:**

Year	Amount (Currency)
Year 1:	
Year 2:	
Year 3:	
Total (A)	
Average Annual Financial Turnover during the last three financial years (A/3)	

**B. NETWORTH\* AS PER LAST AUDITED FINANCIAL STATEMENT:**

Description	Year _____
	Amount (Currency)
1. Net Worth	

**C. WORKING CAPITAL\* AS PER LAST AUDITED FINANCIAL STATEMENT :**

Description	Year _____
	Amount (Currency)
1. Current Assets	
2. Current Liabilities	
3. Working Capital (Current Assets-Current liabilities)	

**\*Refer Instructions**

**Note:**

- 1.0 It is further certified that the above mentioned applicable figures are matching with the returns filed with Registrar of Companies (ROC) [Applicable only in case of Indian Companies]**
- 2.0 We confirm that above figures are after referring instructions at page 2 of 2 of F-10.**
- 3.0 Practicing Chartered Accountants shall generate Unique Document Identification Number (UDIN) for all certificates issued by them**

Name of Audit Firm:  
Chartered Accountant/CPA  
Date:

[Signature of Authorized Signatory]

Name:  
Designation:  
Seal:

Membership No.:  
UDIN:

**(Page 1 of 2)**



बंगाल गैस कंपनी ललललटेड BENGAL GAS COMPANY LIMITED  
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Instructions:

1. The Separate Pro-forma shall be used for each member in case of JV/ Consortium.
2. The financial year would be the same as one normally followed by the bidder for its Annual Report.
3. 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.
4. For the purpose of this Tender document:
  - (i) **Annual Turnover** shall be “Revenue from Operations” as per Profit & Loss account of audited annual financial statements
  - (ii) **Working Capital** shall be “Current Assets less Current liabilities” and
  - (iii) **Net Worth** shall be Paid up share capital plus Free Reserves & Surplus less accumulated losses, deferred expenditure and miscellaneous expenditure not written off, if any.
5. Above figures shall be calculated after considering the qualification, if any, made by the statutory auditor on the audited financial statements of the bidder including quantified financial implication.
6. This certificate is to be submitted on the letter head of Chartered Accountant/CPA.

(Page 2 of 2)



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**E-Banking Mandate Form**

(To be issued on vendors letter head)

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 hereby authorize Bengal Gas Company Limited to release any amount due to me/us in the bank account as mentioned above. I/We hereby declare that the particulars given above are correct and complete. If the transaction is delayed or lost because of incomplete or incorrect information, we would not hold the Bengal Gas Company Limited responsible.

(Signature of vendor/customer)

**BANK CERTIFICATE**

We certify that ----- has an Account no ----- with us and we confirm that the details given above are correct as per our records.

Bank stamp

Date

(Signature of authorized officer of bank)



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F-15  
INDEMNITY BOND

WHEREAS Bengal Gas Company Limited (hereinafter referred to as “**BGCL**”) which expression shall, unless repugnant to the context include its successors and assigns, having its registered office at 1st Floor, Block A, Finance Centre, CBD, Action Area – II B, Newtown, North 24 Parganas, Kolkata, West Bengal, India, Pin: 700161 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.

BGCL has also advised the Contractor to execute an Indemnity Bond in general in favour of BGCL indemnifying BGCL and its employees and Directors including Independent 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 BGCL for above works.

NOW, THEREFORE, in consideration of the promises aforesaid, the Contractor hereby irrevocably and unconditionally undertakes to indemnify and keep indemnified BGCL and all its employees, Directors, including Independent 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 BGCL under or in relation to this contract. The Contractor undertakes to compensate and pay to BGCL and/or any of its employees, Directors including Independent Directors, forth with on demand without any protest the amount claimed by BGCL for itself and for and on behalf of its employees, Directors including Independent 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 further agrees with BGCL that:

- (i) This Indemnity shall remain valid and irrevocable for all claims of BGCL and/or any of its employees and Directors including Independent Directors arising out of said contract with respect to any such litigation / court case for which BGCL and/or its employees and Directors including Independent Directors has 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 BGCL are settled by the Contractor and/or BGCL discharges the Contractor in writing from this Indemnity.



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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



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**F-18**

*NO CLAIM CERTIFICATE*  
**(TO BE SUBMITTED BEFORE RELEASE OF CPS/SECURITY DEPOSIT)**

[On the Letter-head of Supplier/Vendor]

We, \_\_\_\_\_, a company incorporated under the laws of India/ a Consortium between \* \_\_\_\_\_ and \* \_\_\_\_\_ (name of Consortium partners to be inserted)/ a Partnership Firm consisting of \* \_\_\_\_\_ and \* \_\_\_\_\_ (name of Partners to be inserted)/ a Sole Proprietorship (as the case may be), having its registered office at \_\_\_\_\_ and carrying on business under the name and style M/s. \_\_\_\_\_ were awarded the contract by BGCL in reference to Tender No. \_\_\_\_\_ dated \_\_\_\_\_ (“Order/Contract”).

After completion of the above-said items/job under the Order/Contract, we have scrutinized all our claims, contentions, disputes, issues and we hereby confirm that after adjusting all payments received by us against our R.A. Bills and final bill, we have no claims, dues, issues and contentions from BGCL.

We further absolve BGCL from all liabilities present or future arising directly or indirectly out of the Contract.

There is no economic duress or any other compulsion on us for submission of this no claim certificate.

Signature with Seal of Supplier/Vendor

Dated:



बंगाल गैस कंपनी ललललटेड BENGAL GAS COMPANY LIMITED  
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## **SECTION-IV**

# **GENERAL CONDITIONS OF CONTRACT (GCC)**

**FOR PROCUREMENT OF WORKS**

Click on link for GCC documents

**<https://bgcl.co.in/ProjectLmcEOI.html>**

## **SECTION-V**

# **SPECIAL CONDITIONS OF CONTRACT (SCC)**

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*1.0 SPECIAL CONDITIONS OF CONTRACT*

*2.0 ANNEXURE TO SCC*

*3.0 PARTICULAR JOB SPECIFICATION*

## **SPECIAL CONDITIONS OF CONTRACT**

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46. JOINTS MEASUREMENT OF WORK EXECUTED, BILLING, INVOICE AND PAYMENTS
47. WAY BILL/ ROAD PERMIT
48. LOCAL EMPLOYMENT
49. COMPLETION CERTIFICATE

## **GENERAL**

- 1.0 Special conditions of contract (SCC) shall be read in conjunction with the General Conditions of Contract (GCC). Schedule of rates, specifications of work, drawings and any other document forming part of this contract wherever the context so requires.
- 1.1 Notwithstanding the sub-division of the document into these separate sections and volumes, every part of each with and into the contract so far as it may be practicable to do so.
- 1.2 Where any portion of the GCC is repugnant to or at variance with any provisions of the special conditions of contract, then unless a different intention appears, the provision(s) of the special conditions of contract shall be deemed to override the provision(s) of GCC only to the extent that such repugnancies or variations in the special conditions of contract are not possible of being reconciled with the provisions of GCC.
- 1.3 Wherever it is stated in this Bidding Document that such and such a supply is to be effected or such and such a work is to be carried out, it shall be understood that the same shall be effected/carried out by the contractor at his own cost, unless a different intention is specifically and expressly stated herein or otherwise explicit from the context. Contract value (also referred to as Contract price) shall be deemed to have included such cost.
- 1.4 The materials, design and workmanship shall satisfy the applicable relevant Indian Standards, the job specifications stipulate requirements in addition to those contained in the standard codes and specifications, these additional requirements shall also be satisfied. In the absence of any Standard/ Specifications/codes of practice for detailed specifications covering any part of the work covered in this Bidding on the contractor.
- 1.5 In case of contradiction between Indian or other applicable Standards, General Conditions of Contract, Special Conditions of Contract, Specifications, drawings, Schedule of Rates, the following shall prevail in order of precedence:
- i) Letter of acceptance / FOI along with statement of agreed variations.
  - ii) Schedule of Rates as enclosures to letter of Acceptance.
  - iii) Scope of work.
  - iv) Drawings.
  - v) Technical / material Specifications.
  - vi) Special Conditions of Contract
  - vii) Instruction to Bidders
  - viii) General conditions of contract
  - ix) Indian standards
  - x) Other applicable standards
- 1.6 It will be contractor's responsibility to bring to the notice of Engineer-in-charge any irreconcilable conflict in the contract documents before starting the work(s) of making the supply with reference which the conflict exists.
- In the absence of any specifications covering any material, design of work(s) in the same shall be performed / supplies / executed in accordance with Standards Engineering Practice as per the instructions / directions of the Engineer-in-charge,

which will be binding on the Contractor.

1.7 The requirements of any statutory body and authority like Indian boiler regulation, Tariff Advisory Committee, Chief controller of Explosives, etc, shall govern where these are more stringent than the requirements specified above.

1.8 Owner's representative means authorized representative of Owner (i.e. M/s BGCL) and / or Consultant.

## **2.0 THE WORK**

### **2.1 Scope of work**

The scope of work covered in this Contract will be as described in **Annexure-1** to SCC at Particular job specifications, Standard Specifications, Schedule of Rates etc.

### **2.2 Scope of Supply**

The scope of supply covered in this Contract will be as described in **Annexure-2** to SCC Particular Job Specifications, Standard Specifications, and Schedule of Rates etc.

### **2.3 Time schedule**

2.3.1 The work shall be executed strictly as per time schedule given in **Annexure-3** to SCC. The period of completion given includes the time required for mobilization as well as testing, rectifications, if any, retesting, demobilization and completion in all respects to the satisfaction of the Engineer-in-Charge.

2.3.2 A joint program of execution of work will be prepared by the Engineer-in-Charge and Contractor. This program will take into account the time of completion mentioned in 2.3.1 above.

2.3.3 Monthly/Weekly execution program will be drawn up by the Engineer-in-Charge jointly with the Contractor based on availability of materials, work fronts and the joint program of execution as referred to above. The contractor shall scrupulously adhere to the Targets/Programs by deploying adequate personnel, Construction Equipment, Tools and Tackles and also by timely supply of required materials coming within his scope of supply as per Contract. In all matters concerning the extent of target set out in the weekly / monthly program and the degree of achievement, the decision of the Engineer-in-Charge will be final and binding on the Contractor.

2.3.4 Contractor shall give every day category-wise labour and equipment deployment report alongwith the progress of work done on previous day in the proforma prescribed by the Engineer-in-Charge.

### **2.4 Measurement of Works**

In addition to the provisions of Clause 88.1 of the General Conditions of Contract and associated provisions thereof, the provisions of **Annexure – 4** to SCC shall apply.

## **2.5 Terms of Payment**

Terms of Payment will be as specified in **Annexure – 5** to SCC.

## **2.6 Temporary Works**

All temporary works, ancillary works, enabling works, including dewatering of surface and subsoil water, temporary drains at the work site, preparing approaches to working areas, wherever required, for execution of the work, shall be the responsibility of Contractor.

## **2.7 Temporary Fencing**

The Contractor shall, at his own costs and expenses, erect and maintain in good condition temporary fences and gates along the boundaries of the site assigned to him wherever required as per instruction of Engineer-in-charge. Wherever trenching is being done specially at crossing site near habitation and public movement. The contractor shall provide barricading as per sketch enclosed and provide proper night light as per requirement and to the satisfaction of EIC. The Contractor shall, except when authorized by the Engineer-in-Charge, confine his men, materials and plant etc. within the site of which he is given possession. The Contractor shall not use any part of the site for purpose not connected with the works unless prior written permission or consent of the Owner / Engineer-in-Charge has been obtained. Access to site shall be made only through the approved gateways. The Contractor shall maintain sufficient watchmen at site to the satisfaction of the Owner / Engineer-in-Charge.

## **2.8 Contractor's Temporary Structure**

The Contractor may, at his own costs and expenses and subject to the approval of the Engineer-in-Charge and statutory authorities, construct offices, stores, workshop and remove the same as per the orders of the Engineer-in-Charge on completion of the contract. Whenever required the Contractor shall furnish such details of his temporary works as may be called for by the Owner/Engineer-in-Charge as to their safety and efficiency. The Owner/Engineer-in-Charge may direct those temporary works which he considers unsafe or, inefficient be removed and replaced in a satisfactory manner. The Contractor shall immediately follow Owner/Engineer-in-Charge's direction/instruction, on maintenance of all the equipments and he shall ensure that they are suitable for the work and is maintained in such a manner as to ensure their efficient working. The Owner/Engineer-in-Charge, may if they deem fit, direct the Contractor to remove from site any equipment which are not efficient and/or prejudicial to the quality of work to be replaced by equipment to their satisfaction. The Contractor shall immediately follow Owner/Engineer-in-Charge's direction/instruction.

## **2.9 Statutory Approvals**

2.9.1 All associated activities required for obtaining necessary clearances, permissions, approvals, all licenses from all concerned authorities in respect of pipeline crossing & all related works shall be the responsibility of the Contractor and the cost of the same shall be deemed to have been included in the quoted prices.

The approval from any authority required as per statutory rules and regulations of Central/State Government shall be the Contractor's responsibility unless otherwise specified in the Bidding Document. The application on behalf of the Owner for submission to relevant authorities along with copies of required certificate complete in all respects shall be prepared and submitted by the Contractor well ahead of time so that the actual construction of the work is not delayed for want of the approval/inspection by concerned authorities. The inspection of the works by the authorities shall be arranged by the Contractor and necessary coordination and liaison work in this respect shall be the responsibility of the Contractor. However statutory fees paid, if any, for all inspections and approvals by such authorities shall be reimbursed at actual by the Owner to the Contractor on production of documentary evidence.

Any change/addition required to be made to meet the requirements of the statutory authorities shall be carried out by the Contractor free of charge. The inspection and acceptance of the work by statutory authorities shall however, not absolve the Contractor from any of his responsibilities under this Contract.

## **2.10 Quality Assurance**

2.10.1 Bidder shall include in his offer the quality assurance programme containing the overall quality management and procedures, which is required to be adhered to during the execution of contract. After the award of contract detailed quality assurance program shall be prepared by the contractor for the execution of Contract for various works, which will be mutually discussed and agreed to.

2.10.2 The Contractor shall establish document and maintain an effective quality assurance system as outlined in recognized codes.

2.10.3 Quality Assurance System plans/procedures of the Contractor shall be furnished in the form of QA manual. This document should cover details of the personnel responsible for the quality assurance, plans or procedures to be followed for quality control in respect of Design, Engineering, Procurement, Supply, Installation, Testing and Commissioning.

The quality assurance system should indicate organizational approach for quality control and quality assurance of the construction activities, at all stages of work at site as well as at manufacturer's works and dispatch of materials.

2.10.4 The Employer/ consultant / Consultant or their representative shall reserve the right to inspect/witness, review any or all stages of work at shop/site as deemed necessary for quality assurance.

2.10.5 The Contractor has to ensure the deployment of quality Assurance and Quality Control Engineer(s) depending upon the quantum of work. This QA /QC group shall be fully responsible to carryout the work as per standards and all code requirements. In case Engineer- in-charge feels that contractor's QA/QC Engineer (s) are incompetent or insufficient, contractor has to deploy other experienced Engineer(s) as per site requirement and to the full satisfaction of engineer-in- charge.

2.10.6 In case contractor fails to follow the instructions of Engineer –in-charge with respect to above clauses, next payment due to him shall not be released unless until he complies with the instructions to the full satisfaction of Engineer –in –charge.

2.10.7 The contractor shall adhere to the quality assurance system as per EPMC specification enclosed in the bidding document as **Annexure-6**.

## **2.11 Notice and Licenses**

The Contractor shall at his costs and expenses give to the Municipal or Panchayat, Police and other authorities all notices etc., that may be required in law to be given and obtain all necessary permissions and licenses etc., for temporary obstructions, enclosures and pay all fees, taxes charges etc. which may be leviable by such authorities for that purpose. The Contractor shall make good any damage to the adjoining property whether public or private.

## **2.12 Working Hours**

Depending upon the requirements, time schedule/ drawn up programs and the target set to complete the job in time the works may have to continue beyond normal working hours to the extent of round the clock and on holidays also for which no extra claim shall be entertained.

## **2.13 Responsibility of Contractor**

Preparing approaches and working area for the movement and operation or the cranes, leveling the area for assembly and erection shall also be the responsibility of the Contractor. The Contractor shall acquaint himself with access availability, facilities such as railway siding, local labour etc.

The procurement and supply in sequence and at the appropriate time of all materials and consumables covered under Contractor's scope of supply shall be entirely the Contractor's responsibility. Contractor shall not use any of the equipment or materials issued to him by Owner for temporary works, manufacturing erection aids etc. Misuse of materials will be seriously viewed and deduction at penal rates will be made from the Contractors bill for such quantities that are misused.

Contract Price is deemed to be inclusive of all expenses towards above responsibilities.

## **2.14 Additional Works / Extra Works**

Owner reserve their right to execute any additional works/ extra works, during the execution of Work, either by themselves or by appointing any other agency, even though such works are incidental to and necessary for the completion of works awarded to the Contractor. In the event of such decisions taken by Owner, Contractor is required to extend necessary cooperation and act as per the instructions of Engineer-in-Charge

## **2.15 Compensation for Idle Time**

The owner shall make every reasonable effort to have the materials and working front

available so as not to delay laying activities. No idle time claim shall be entertained under any circumstances.

## **2.16 Power and Water Connection**

The Purchaser/Consultant will not provide any power and water during construction period. Contractor shall apply and obtain necessary power and water during connection from relevant authority and will pay its usage charge or arrange the same from the other sources.

## **2.17 Penalties**

- 2.17.1 In case of proper barricading is not provided, along the trench and pits, as per technical specification for laying of PE Pipeline, the work shall be immediately suspended till such time proper barricading as per the technical specification is provided and Rs. 1000.00 per case / location per day shall be levied as penalty till such time the barricading is provided. In case the contractor fails to provide the barricading for long time, at the discretion of Owner, the work shall be offloaded to some other agency at the risk and cost of the contractor.
- 2.17.2 In case the contractor fails to mobilize the HDD machine along with associated manpower, tools & tackles at site and fails to start the work within 10 days from the intimation received from Engineer-In charge, a penalty of Rs. 2500.00 per day will be deducted from Contractor's Running Bills.
- 2.17.3 If installation / work done by the contractor is not as per the standards and rectification of the same is not completed within the stipulated time, a penalty of Rs. 2000.00 per connection shall be levied on the contractor.
- 2.17.4 In case it is noticed and confirmed by the consultant / Third Party Agencies / Owner site – In Charge that any fusion jointing or conversion is being carried out by personnel other than approved / qualified technicians as per the technical specifications for laying of PE pipelines and technical specifications for installation of GI/Copper Pipes, Rs. 1000.00 per joint or conversion shall be levied and the person supervising the work shall be suspended from BGCL Site
- 2.17.5 Material reconciliation statement must be provided with each running bills.
- 2.17.6 Quarterly Closure Statement must be provided after every quarter end failing which a penalty of Rs. 5000.00 per week of delay will be deducted from Contractor's Running Bills. Format of Quarterly Closure Report will be provided by EIC.

**Depending upon site conditions, EIC can modify the various penalties and decision of EIC in this regard shall be final and acceptable.**

## **3.0 CONSTRUCTION**

OWNER reserves the right to inspect all phases of Contractor's operations to ensure conformity to the SPECIFICATIONS. Owner will have Engineers, Inspectors or

other duly authorized representatives, made known to the Contractor present during progress of the WORK and such representatives shall have free access to the WORK at all times. The presence or absence of an Owner's representative does not relieve the Contractor of the responsibility for quality control in all phases of the WORK. In the event that any of the WORK being done by the Contractor or any Sub-Contractor is found by Owner's representatives to be unsatisfactory or not in accordance with the DRAWINGS, procedures and SPECIFICATIONS, the Contractor shall, upon verbal notice of such, revise the work in a manner to conform to the relevant DRAWINGS, procedures and SPECIFICATIONS.

### **3.1 Rules and Regulations**

Contractor shall observe in addition to Codes specified in respective specification, all national and local laws, ordinances, rules and regulations and requirements pertaining to the work and shall be responsible for extra costs arising from violations of the same.

### **3.2 Procedures**

Various procedures and method statements to be adopted by Contractor during the construction as required in the respective specifications shall be submitted to Engineer-in-Charge in due time for approval. No construction activity shall commence unless approved by Engineer-in-Charge in writing.

### **3.3 Security**

The work being in protected area, entry into the work area shall be restricted and governed by issue of photo gate passes by the Security/CISF. The Contractor shall arrange to obtain through the Engineer-in-Charge, well in advance, all necessary entry permits/gate pass for his staff and labour and entry and exit of his men and materials shall be subject to vigorous check by the security staff. The Contractor shall not be eligible for any claim or extension of time whatsoever on this account.

### **3.4 Drawings and Documents**

3.4.1 The drawings accompanying the bid document (if any) are of indicative nature and issued for bidding purpose only. Purpose of these drawing is to enable the bidder to make an offer in line with the requirements of the Employer/Consultant. However no extra claim whatsoever, shall be entertained for variation in the "Approved for Construction" and "Bid document drawings" regarding any changes/units. Construction shall be as per drawings/specifications issued / approved by the Engineer-in-Charge during the course of execution of work. Detailed construction drawings (wherever required) on the basis of which actual execution of work is to proceed will be prepared by the contractor.

3.4.2 The drawings and documents to be submitted by the Contractor to Employer/Consultant after award of the work as per the requirements enlisted in the bidding document shall be for Employer/Consultant's review, information and record. The Contractor shall ensure that drawings and documents submitted to Employer/Consultant are accompanied by relevant calculations, data as required and essential for review of the document/ drawings. EPMC shall review the drawings/ documents within two weeks from the date of submission provided the same are

accompanied by relevant calculations, data as required and essential for review.

- 3.4.3 All documents and drawings including those of Contractors sub-vendor's manufacturer's etc. shall be submitted to Employer/Consultant after having been fully vetted in detail, approved and co-opted by the Contractor & shall bear Contractor seal/certifications to this effect. All documents/drawings & submissions made to Employer/Consultant without compliance to this requirement will not be acceptable and the delay & liability owing to this shall be to the Contractor's account.
- 3.4.4 The review of documents and drawings by Employer/Consultant shall not absolve Contractor from his responsibility to meet the requirements of specifications, drawings etc. and liabilities for mistakes and deviations. Upon receiving the comments on the drawing/documents reviewed by Employer/Consultant, Contractor shall incorporate the comments as required and ensure their compliance.
- 3.4.5 Copies of all detailed working drawing relating to the works shall be kept at the contractors' office at the site and shall be made available to the Engineer-in-charge/ Employer/Consultant at any time during execution of the contract. However no extra claim what so ever shall be entertained for any variation in the "approved/issued for construction drawings" and "tender drawings" regarding any changes/units unless otherwise agreed.
- 3.4.6 The Contractor shall rectify any inaccuracies, errors and non-compliance to contractual requirements. Any delay occurring on this shall not construe a reason for delay/extension.

### **3.5 Excavation by blasting**

Excavation by blasting is not permitted wherever required in hard strata other mechanical tools shall be used.

### **3.6 Construction Equipment & Mechanization of Construction Activities**

Contractor shall, without prejudice to his overall responsibility to execute and complete the Work as per specifications and time schedule, adopt as far as practicable, mechanized construction techniques for major site activities. However, Contractor agrees that he will deploy the required numbers and types of the part & machinery applicable for different activities in consultation with the Engineer-In- Charge during execution of works.

The Contractor shall mechanize the construction activities to the maximum extent by deploying all necessary construction equipment/machinery in adequate numbers and capacities.

Wherever Structural/Piping works are included in the scope, the Contractor's responsibilities shall include establishing and maintaining of a proper fabrication workshop with transportation facilities to site to carryout fabrication of steel structures, piping specials etc., preparing approaches working areas for themovement/operation of cranes and leveling the areas for assembly/erection to ensure effective mechanization on the works. The Contractor shall acquaint himself with availability of access, facilities such as railway siding, local labour etc. and the

Contractor may have to build temporary access roads to aid his work and the quoted and agreed rates shall be deemed to include the same. It may be noted that all fabrication work shall be carried out in fully mechanized workshops to reduce site fabrication to minimum.

For speedy execution of work, Contractor shall also ensure use of computer software for at least the following:

- (i) Billing
- (ii) Planning & Scheduling
- (iii) Progress Reporting
- (iv) Material Control & Warehousing
- (v) Safety Records
- (vi) Resource Deployment
- (vii) Communication

Contractor further agrees that Contract price is inclusive of all the associated costs) which he may incur for actual mobilization, required in respect of use of mechanized construction techniques and that the Owner/Consultant in this regard shall entertain no claim whatsoever.

### **3.7 Site Organization**

The Contractor shall provide all necessary superintendence during the design and execution of the Works and as long thereafter as the Engineer-in-Charge may consider necessary for the proper fulfilling of the Contractor's obligations under the Contract. Such superintendence shall be given by sufficient persons having adequate knowledge of the operations to be carried out including the methods and techniques required the hazards likely to be encountered and methods of preventing accident for the satisfactory and safe execution of the Work. The workmen deployed, by the Contractor should also possess the necessary license etc., if required under any law, rules and regulations.

Subject to the provisions in the Contract Document and without prejudice to Contractor's liabilities and responsibilities to provide adequate qualified and skilled personnel on the Work, Contractor shall augment the same as decided by the Engineer-in-Charge depending on the exigencies of Work.

#### **3.7.1 SUPERVISION**

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 BGCL 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 BGCL

The Contractor will appoint his own supervisors of minimum number instructed by EIC. These personnel will be responsible to the SE for monitoring construction standards and for ensuring that all detailed technical requirements are met on each and every job which is undertaken. The Contractor's supervisor(s) will have day today liaison with the SE, and will provide the SE 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 or pagers to ensure that they can be contacted at all times. The Contractor will also nominate one person who can be contacted if necessary out of 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 BGCL as is required. The normal day to day issue of work instructions, communication between BGCL and the Contractor's supervisor and the SE. No deviation from the approved technical specification / issued construction drawings shall be undertaken without written approval of EIC.

### **3.8 Health Safety and Environment (HSE) Management**

After the award of the contract, detailed Health, Safety and Environment (HSE) program to be followed for execution of contract under various divisions of works will be mutually discussed and agreed between Contractor, Client & PMC.

The Contractor shall establish document and maintain an effective Health, Safety and Environment (HSE) management system.

In case contractor fails to follow the instructions of Engineer-in-charge with respect to above clauses, next payment due to him shall not be released unless until he complies with the instructions to the full satisfaction of Engineer-in-charge.

The Contractor shall adhere to the Health, Safety and Environment (HSE) management system as per BGCL Specification and General Conditions of Contract.

It will be the Contractor's responsibility to acquaint his site staff and operatives of all current safety legislation, statutory requirements and BGCL Ltd's safety standards. In addition, and before any work takes place all the Contractor's operatives shall be given training in site safety by the trained person under supervision of BGCL. If the Contractor wishes to start any new operatives on site, he must first inform the SE, who will arrange for such training to be arranged.

### **3.9 General Guidelines During and Before Erection**

3.9.1 The Contractor shall be responsible for organizing the lifting of the structural element, equipment in the proper sequence, that orderly progress of the work is ensured and access routes for erecting the other structures/ equipments are kept open.

3.9.2 During the performance of the work the Contractor at his own cost, shall keep structures, materials and equipment adequately braced by guys, struts or otherwise approved means which shall be Supplied and installed by the Contractor as required till the installation work is satisfactorily completed.

Such guys, shoring, bracing, strutting, planking supports etc. shall not interfere with the work of other agencies and shall not damage or cause distortion to other works executed by him or other agencies.

3.9.3 Manufacturer's recommendations and detailed specifications for the installation of the various equipment and machines shall be fulfilled by the Contractor.

3.9.4 Various tolerances required as marked on the drawings and as per specifications and instructions of the Engineer-in-Charge, shall be maintained.

Verticality shall be maintained. Verticality shall be verified with the Theodolite / advanced instruments.

### **3.10 Construction Photographs**

The Owner desires to have two sets of monthly progress reports with photographs showing the progress of construction. Before utilizing any photograph for publicity, the Contractor shall obtain prior approval of the Owner.

### **3.11 VOID**

#### **3.11.1. Construction Equipment**

Minimum construction equipment to be deployed is enclosed as **Annexure-8** to SCC. However, any other equipment required for completion of pipeline laying work but not specifically mentioned here, shall be deployed by contractor without any additional cost. The list of equipments mentioned in **Annexure-8** is the minimum to be deployed by contractor and contractor shall ensure the availability at site of listed equipments in good working condition.

### **3.12 Specific Requirements**

Specific requirements spelt out in various technical parts of the Bidding Document shall be followed by Contractor.

### **3.13 SITE CLEANING**

3.13.1 The BIDDER shall take care for cleaning the working site from time to time for easy access to work site and also from safety point of view.

3.13.2 Working site should be always kept cleaned up to the entire satisfactions of the Engineer-in-charge.

Before handing over and work to owner, the BIDDER in addition to other formalities to be observed as detailed in the document shall clear the site to the entire satisfaction of Engineer-in-charge.

### **3.14 SURVEY OF WORK**

Before the WORK or any part thereof are begun, the Contractor's agent and the Engineer-in-Charge's representative shall together survey the SITE and decide the tentative route considering all obstructions on which the pipeline is to be laid and on which measurements of the WORK are to be based. Such particulars shall be plotted by

the BIDDER and trial pits started thereon.

The Contractor shall be entirely responsible for the correctness of every part of the WORK and shall rectify any errors or imperfections therein. Such rectifications shall be carried out by the Contractor at his own cost, when instructions are issued to this effect by the Engineer-in-Charge or his representative.

WORK shall be suspended for such times as necessary for checking lines and levels on any part of the WORK.

The Contractor shall at his own expense provide all assistance, which the Engineer-in-Charge may require for checking the setting out to WORKS.

Before commencement of any activity, Contractor's quality control set up duly approved by company must be available at site.

### **3.15 MANPOWER DEPLOYMENT**

3.15.1 Bidder shall meet the requirement regarding deployment of minimum skilled manpower as specified in the bidding document at **Annexure-9**.

### **3.16 PRICE ADJUSTMENT DUE TO DELAYED MOBILIZATION OR SHORTFALL IN MOBILISATION OF MINIMUM EQUIPMENT AND MANPOWER**

3.16.1 In case during execution, adequate front is not available at site, contractor may request for delayed mobilization of certain equipments / manpower and submit for approval of Engineer-in-charge.

3.16.2 Contractor shall maintain record of actual mobilization of each equipment and key personnel and offer the same to EIC on monthly basis.

3.16.3 In case of delay in mobilization or shortfall in mobilization of equipment and key personnel w.r.t. approved deployment of equipments and manpower, recovery shall be effected from contractor's running bills as certified by ENGINEER INCHARGE.

3.16.4 If found necessary, BGCL / M/s EPMC may deploy any equipment / manpower and recover the amount for such deployment as per prevailing wages rates .

3.16.5 In case of early mobilization or additional mobilization of equipment as compared to required equipments to meet the schedule requirement. Contractor shall not be entitled for any extra claim.

- 3.16.6 An equipment and key personnel may be demobilized by the contractor on completion of its equivalent at site after written clearance of Engineer-in-charge. Unilateral withdrawal of any equipment / key manpower by the contractor will attract recovery as per rates specified in **Annexure- 08 & Annexure- 09** to SCC.
- 3.16.7 Deduction under this clause is in addition to PRS applicable pursuant to GCC clause 27.0 and SCC Clause. The provision of GCC clause no. 27.0 shall have no bearing on this clause. The Contractor's maximum liability towards deduction for non-deployment of requisite minimum equipment & manpower shall be limited to 2.5% of contract price.
- 3.16.8 In case PRS is not applicable to the contractor, then amount deducted on account of Non-deployment of equipments and manpower will be refunded to the contractor.**
- 3.16.9 In case of final bill, contractor shall be required to submit NOC from subcontractor about receipt of full payment from the contractor.
- 3.16.10 Contractor shall maintain record of actual mobilization of each equipment and key personnel. Joint record of equipment mobilization will be maintained month-wise. Further a copy of hindrance register for the specified period (RA bill period) duly signed by contractor/ M/S EPMC/ BGCL shall be maintained and submitted along with each RAbill.

#### **4.0 TESTS, INSPECTION AND COMPLETION**

##### **4.1 Tests and Inspection of Material under Contractor's Scope**

Inspection and test prior to shipment of material and at final acceptance shall be as specified in Technical Specification. However, without prejudice to the provision of Technical Specification following shall hold good.

The Owner/Consultant or its representative shall have the right to inspect or to test the material to conform their conformity to the specification.

If any inspected or tested material fail to conform the specification, the Owner/Consultant may reject them and the contractor shall either replace the rejected materials or make all the alteration necessary to meet the specification, free of cost to the purchaser/consultant.

The Purchaser / Consultant's right to inspect , test and where ever necessary reject the material after the material's arrival in the purchaser / consultant site shall in no way be limited to or waived by reason of the material having previously been inspected , tested and passed by the purchaser/ Consultant or their representative prior to the material shipment from the material supplier.

##### **4.1.1 Tests and Inspection during execution**

The Contractor shall carry out the various tests as enumerated in the technical specifications of this Bidding Document and technical documents that will be furnished to him during the performance of the work at no extra cost to the Owner.

All the tests either on the field or at outside laboratories concerning the execution of the work and supply of materials by the Contractor shall be carried out by Contractor at his own cost.

The work is subject to inspection at all times by the Engineer-in-Charge. The Contractor shall follow all instructions given during inspection and shall ensure that the work is being carried out according to the technical specifications of this Bidding Document, the technical documents that will be furnished to him during performance of work and the relevant codes of practice.

The Contractor shall provide for purposes of inspection access ladders, lighting equipment for testing, necessary instruments etc. at his own cost, low voltage lighting equipment for tray fixing and inspection work.

Compressed air for carrying out works shall be arranged by the Contractor at his own cost.

For material supplied by Owner, Contractor shall carryout the tests, if required by the Engineer-in-Charge, and the cost of such tests shall be reimbursed by the Owner at actual to the Contractor on production of documentary evidence.

Contractor shall inspect carefully all equipment before receiving them from Owner for installation purposes. Any damage or defect noticed shall be brought to the notice of Engineer-in- Charge immediately.

All results of inspection and tests will be recorded in the inspection reports, proforma of which will be approved by the Engineer-in-Charge. These reports shall form part of the completion documents. Any work not conforming to execution drawings, specifications or codes shall be rejected and the Contractor shall carryout the rectifications at his own cost.

Inspection and acceptance of the work shall not relieve the Contractor from any of his responsibilities under this Contract.

## **4.2 Final Inspection during execution**

After completion of all tests as per specification the whole work will be subject to a final inspection to ensure that job has been completed as per requirement. If any defect is noticed, the Contractor will be notified by the Engineer-in-Charge and he shall make good the defects at his own cost and risk with utmost speed. If, however, the Contractor fails to attend to these defects within a reasonable time (time period shall be fixed by the Engineer-in-Charge) then Engineer-in-Charge may have defects rectified at Contractor's cost.

When these works are carried out at the risk and cost of the Contractor, the Engineer-in-charge would recover the actual cost incurred towards labour, supervisions and material, consumables or otherwise, plus 100% towards overheads from any pending bill of the Contractor or the security deposit.

## **4.3 Documentation**

### **4.3.1 As - Built Drawings**

Notwithstanding the provisions contained in standard specifications, upon completion of commissioning, the BIDDER shall complete all of the related approved drawings along with bill of materials to the "AS BUILT" stage provide to a **scale of 1:200** and submit to BGCL, the following:

- a) One complete set in reduced size (279 mm x 432 mm).
- b) One complete set of Soft Copy in CD of all original drawings.
- c) Four complete sets of approved prints in A2 / A3 sizes.

#### 4.3.2 Completion Document

The following documents shall be submitted in hard binder by the BIDDER in FOUR sets, as a part of completion documents:

- a) Copies of the Inspection reports, Laying Graphs, HDD Profiles (IF ANY) and valve pit drawings (IF ANY).
- b) Pre testing, final Hydrostatic / pneumatic and other Test results and reports.
- c) Consumption statements of PE / GI certified by Owner's Site Engineer.
- d) Final Material Reconciliation, stores issue & return statements
- e) All other requirements as specified in the respective specifications.
- f) Completion Certificate issued by Owner's Site Engineer.
- g) No claim certificate by the BIDDER.
- h) Completion certificate for embedded and covered up works wherever applicable.
- i) Recovery statement, if any.
- j) Deviation statement.
- k) Statement for reconciliation of all the payments and recoveries made in the progress bills.
- l) Copies of deviation statement and order of extension of time, if granted.
- m) Any other contractual documents required on completion.
- n) Total list of houses in the area allotted to him giving details of connections provided & reasons where connection could not be given / completed.
- o) The details recorded in measurement cards of every domestic house.
- p) Details of houses where extra piping done along with materials used.
- q) Total material consumption report.

- r) Material reconciliation with respect to the materials issued.
- s) Test reports & test certificates of gauges etc.
- t) Any other documents / records required.

#### **4.4 Statement of Final Bills-Issue of No Demand Certificate**

The final bill of Contractor shall be accompanied by no-demand certificate from the following departments of the Owner:

- i) Administration & Personnel Department regarding vacation of land, housing accommodation, recovery of tents etc.
- ii) Fire and Safety Officer and CISF. (IF REQUIRED)

The Contractor shall obtain such no-demand certificates from the concerned authorities and furnish the same to the Engineer-in-Charge.

#### **4.5 Issue and Reconciliation of Material**

Refer **Annexure-7** to SCC for details.

#### **4.6 GOVERNMENT OF INDIA NOT LIABLE**

It is expressly understood and agreed by and between the Contractor and the Employer that the Employer is entering into this agreement solely on its own behalf and not on behalf of any other person or entity. In particular, it is expressly understood and agreed that the Government of India is not a party to this agreement and has no liabilities, obligations or rights there under. It is expressly understood and agreed that the Employer is an independent legal entity with power and authority to enter into contract, solely in its own behalf under the applicable laws of India and general principal of Contract Law. The Contractor expressly agrees, acknowledges and understands that the Employer is not an agent, representative or delegate of Govt. of India. It is further understood and agreed that the Govt. of India is not and shall not be liable for any acts, omissions, commissions, breaches or other wrongs arising out of the contract. Accordingly, contractor hereby expressly waives, releases and foregoes any and all actions or claims, including cross claims, impleader claims or counter claims against the Govt. of India arising out of this contract and covenants not to sue to Govt. of India as to any manner, claim, cause of action or thing whatsoever arising of or under this agreement.

#### **5.0 REGISTRATION OF THE CONTRACT WITH STATUTORY AUTHORITIES (FOR FOREIGN BIDDER (if applicable))**

- 5.1 Within 30 days of execution of the Contract agreement, the Contractor shall register themselves and the Contract at their own cost with the Reserve Bank of India, Income Tax, and such other statutory authorities, as may be required under the rules and regulations governing in India. The Contract Price shall be deemed to include all costs towards the same. A copy of all documents related to all such registration shall be submitted to Employer for record.

#### **6.0 LIMITATION OF LIABILITY**

Add the following at the end of clause no. 32 of GCC

**6.1** The final payment by the Employer/Consultant in pursuance of the Contract terms shall not mean release of the Contractor from all of his liabilities under the Contract. The Contractor shall be liable and committed under this contract to fulfill all his liabilities and responsibilities, till the time of release of contract performance guarantee by the Employer/Consultant.

**7.0 DEFECT LIABILITY PERIOD (DLP)**

In partial modification to clause no. 18 of GCC, following shall be defect liability period for tendered Services/ works:

The CONTRACTOR shall guarantee the installation/WORK for a period of 12 months from the date of completion of WORK as certified by the ENGINEER IN CHARGE which is indicated in the Completion Certificate. Any damage or defect that may arise or lie undiscovered at the time of issue of Completion Certificate, connected in any way with the equipment or materials supplied by him or in the workmanship, shall be rectified or replaced by the CONTRACTOR at his own expense as deemed necessary by the ENGINEER IN CHARGE or in default, the ENGINEER IN CHARGE may carry out such works by other work and deduct actual cost incurred towards labour, supervision and materials consumables or otherwise plus 100% towards overheads (of which the certificate of ENGINEER IN CHARGE shall be final) from any sums that may then be or at any time thereafter, become due to the CONTRACTOR or from his Contract Performance Security, or the proceeds of sale thereof or a sufficient part on thereof.

If the CONTRACTOR feels that any variation in WORK or in quality of materials or proportions would be beneficial or necessary to fulfil the guarantees called for, he shall bring this to the notice of the ENGINEER IN CHARGE in writing.

If during the period of liability any portion of the WORK/equipment, is found defective and is rectified/ replaced, the period of liability for such equipment/ portion of WORK shall be operative from the date such rectification/ replacement are carried out and Contract Performance Guarantee shall be furnished separately for the extended period of liability for that portion of WORK/ equipment only. Notwithstanding the above provisions the supplier's, guarantees/warantees for the replaced equipment shall also be passed on to the EMPLOYER."

**8.0 CONTRACT PERFORMANCE GUARANTEE**

Please refer clause no. 37 of ITB (Vol. I), clause no. 9.0 of GCC (General Condition of Contract) & Bid Data Sheet (BDS).

In addition to above, following will also apply:

- a) In the event completion of works is delayed beyond the Scheduled Completion Date for any reasons whatsoever, the Contractor shall have the validity of the guarantee suitably extended to cover the period mentioned above.
- b) The Employer/Consultant shall have an unqualified option under this guarantee to invoke the Banker's Guarantee and claim the amount there under in the event of Contractor failing to honour any of the commitments entered into under this Contract and/or in respect of any amount due from the Contractor to the Employer/Consultant. In case Contractor fails to furnish the

requisite Bank Guarantee as stipulated above, then the Employer/Consultant shall have the option to terminate the Notification of Award of Work and forfeit the Bid Security/Earnest Money amount and compensation for the works performed shall be payable upon such termination.

- c) Upon completion of the Works as per Completion Schedule stipulated in Contract, the above said guarantee shall be considered to constitute the Contractor's warranty/guarantee for the work done by him or for the Works supplied and performance as per the specifications and any other conditions against this Contract. The warranty/guarantee shall remain in force for 12 months from the date of issuance of certificate of Completion and Acceptance against this Contract. Contractor shall also arrange for the Performance Guarantee to remain valid until expiration of the guarantee period for entire works covered under the contract.
- d) In the event of Completion of Project being delayed beyond the Scheduled Completion Date, the Employer/Consultant may without prejudice to any other right or remedy available to the Employer/Consultant, operate the Bank Guarantee to recover the Compensation for delay. The Bank Guarantee amount shall thereupon be increased to the original amount, or the Contractor may alternatively submit a fresh Bank Guarantee for the equivalent amount of compensation for delay recovered.

## **9.0 TAXES, DUTIES AND LEVIES IN INDIA**

**9.1** The Contractor agrees to and does hereby accept full and exclusive liability for the payment of any and all taxes, duties, including GST, custom duty, etc. now in force and hereafter increased, imposed or modified from time to time in respect of works and materials and all contributions and taxes for unemployment compensation, insurance and old age pensions or annuities now or hereafter imposed by any Central or State Government authorities which are imposed with respect to or covered by the wages, salaries, or other compensations paid to the persons employed by the Contractor and the Contractor shall be responsible for the compliance with all obligations and restrictions imposed by the Labour Law or any other law affecting employer-employee relationship and the Contractor further agrees to comply, and to secure the compliance of all subcontractors with all applicable Central, State, Municipal and local law and regulation, and requirement of any central, State or Local Government agency or authority. Contractor further agrees to defend, indemnify and hold Employer/Consultant harmless from any liability or penalty which may be imposed by the Central, State or Local authorities by reason of any violation by Contractor or Subcontractor of such laws, regulations or requirements and also from all claims, suits or proceedings that may be brought against the Employer/Consultant arising under, growing out of, or by reason of the work provided for by this Contract, by third parties, or by Central or State Government authority or any administrative sub-division thereof. The prices shall also be inclusive of all taxes/ Trade tax/ turnover tax as applicable.

**9.2** Employer shall make from Contractors bills such tax deductions as are required as per rules and regulations in force from time to time.

**9.3** If GST is applicable during site fabrication, the same must be assessed and deemed to

be included by the bidder in the quoted prices. The bidder in this regard shall arrange all required formalities.

**9.4** Bidder shall take care of all applicable taxes & duties while submitting their prices.

**9.5** Any errors of interpretation of applicability of taxes/ duties by Bidders shall be to their account.

## **10. SUBSEQUENT LEGISLATION**

**10.1** All duties, taxes (including trade tax/ turnover tax/GST as applicable), fees, charges, expenses, etc. (except where otherwise expressly provided in the Contract) as may be levied/ imposed in consequence of execution of the works or in relation thereto or in connection therewith as per the Acts, Laws, Rules, Regulations in force shall be to Contractor's account. However, any new taxes /duties imposed after the date of submission of last price bid & up to Contractual Completion date shall be to the BGCL Ltd's account but such Taxes /duties imposed beyond Contractual Completion date shall be to the Contractor's account. However if such new taxes etc. is insubstitute of existing taxes, same will be considered on merit of each case.

## **11. STATUTORY VARIATION IN TAXES & DUTIES**

**Refer ITB.**

### **12.0 INCOME TAX & CORPORATE TAX**

Refer clause no. 42 of ITB.

### **13.0 VOID**

### **14.0 CUSTOMS DUTY ON CONSTRUCTION EQUIPMENTS**

**14.1** Contractor is liable to pay custom duty on the equipments brought into India for executing the project. The Contractor shall be fully liable for observing all the formalities in this regard as well as to pay the custom duty chargeable on the equipments, including any deposit payable for such purposes. No adjustment in contracted rates shall be permissible for any change in duty drawback applicable in respect of equipment & machinery brought in India for the use of the project and for re-export of equipment and machinery, on completion of the project.

**14.2** If the Custom Authorities require the Contractor to furnish a bond to secure payment of any custom duty in respect of any import and that such Bond shall be furnished by the Employer, the Employer may at the request of the Contractor furnish the said Bond against the Contractor furnishing a Bank Guarantee to the Employer, of the like amount in the form and from a Bank in India approved by the Employer.

**14.3** If for any reason the Employer is required by the Customs Authorities during pendency of Contract to pay any customs duty due to the importation or retention by the Contractor of any imports, the Contractor shall forthwith on demand by the Employer pay the same to the Employer, with the right in the Employer/Consultant (without prejudice to any other mode of recovery or right of the Employer/Consultant) to deduct the same from the on account and other payments

due and/or becoming due or payable to the Contractor from time to time. The payments under such a case shall be subject to submission of Bank Guarantee from a Bank approved by Employer, by the Contractor in favor of the Employer for an amount equivalent to amount of custom duty.

- 14.4** The obligations undertaken and/or any bond or facility provided by the Employer to the Contractor shall be based on the clear understanding that the said equipment shall be utilized by the Contractor only for the performance of the work covered under this contract and that the Employer/Consultant shall be discharged forthwith from all said obligations and shall be entitled forthwith to discontinue and recall any bond or other facility to the Contractor if the Contractor shall utilize or permit to be utilized the said equipment(s) or any of them for the performance of any work other than the work covered by the Contract in which event any amount due from Contractor in this connection shall also carry interest @22% (Twenty two percent) per annum from the date of relative payment by Employer up to the date of recovery in full.

**15** **ISSUE OF CERTIFICATE- PERTAINING TO IMPORT**

BGCL shall not provide any kind of certificate.

**16.0** **IMPORT LICENCE**

- 16.1** Contractor shall arrange import of all materials required for permanent incorporation in the works as well as construction equipment as per the guidelines laid down by the Government of India. Employer shall not provide import license.

**17.0** **WITHHOLDING, ACCOUNTING AND TAX REQUIREMENTS**

- 17.1** Contractor agrees for withholding from wages and salaries of its agents, servants or employees all sums, required to be withheld by the laws of the Republic of India or any other agency having jurisdiction over the area where Contractor is conducting operations, and to pay the same promptly and directly when due to the proper authority. Contractor further agrees to comply with all accounting and reporting requirements of any Nation having jurisdiction over the subject matter hereof and to conform to such laws and regulations and to pay the cost of such compliance. If requested, Contractor will furnish the evidence of payment of applicable taxes, in the country(ies) of the Contractor's and his sub-contractor(s) and expatriate employees.

**18.0** **INTELLECTUAL PROPERTY**

- 18.1** Neither Employer nor Contractor nor their personnel, agents nor any sub-contractor shall divulge to any one (other than persons designated by the party disclosing the information) any information designated in writing as confidential and obtained from the disclosing party during the course of execution of the works so long as and to the extent that the information has not become part of the public domain. This obligation does not apply to information furnished or made known to the recipient of the information without restriction as to its use by third parties or which was in recipient's possession at the time of disclosure by the disclosing party. Upon completion of the works or in the event of termination pursuant to the provisions of the contract, Contractor shall immediately return to Employer/Consultant all drawings, plans, specifications and other documents supplied to the Contractor by or on behalf of Employer/Consultant or prepared by the Contractor solely for the purpose of the

performance of the works, including all copies made thereof by the Contractor.

**19.0 FIRM PRICE**

**19.1** The quoted prices shall be firm and shall not subject to price escalation till the work is completed in all respects.

**20.0 WORKS CONTRACT**

**20.1** The work covered under this contract shall be treated as "Works Contract".

**21.0 PROVIDENT FUND ACT**

**21.1** The Contractor shall strictly comply with the provisions of Employees Provident Fund Act and register themselves with RPFCA before commencing work. The Contractor shall deposit Employees and Employers contributions to the RPFCA every month. The Contractor shall furnish along with each running bill, the challan/ receipt for the payment made to the RPFCA for the preceding months.

**22.0 MOBILIZATION ADVANCE – Not Applicable for this tender.**

**23.0 TERMS OF PAYMENT**

**23.1** Basis and terms of payment for making “On Account Payment” shall be as set out in **Annexure-5 to SCC.**

**24.0 COMPENSATION FOR EXTENDED STAY- Refer ITB & BDS.**

**25.0 COORDINATION WITH OTHER AGENCIES**

**25.1** Work shall be carried out in such a manner that the work of other agencies operating at the site is not hampered due to any action of the Contractor. Proper coordination with other agencies will be Contractor's responsibility. In case of any dispute, the decision of Engineer-in-Charge shall be final and binding on the Contractor.

**26.0 SETTLEMENT OF DISPUTE BETWEEN TWO PSU's –REFER ITB.**

**27.0 ROYALTY**

**27.1** Contractor's quoted rate should include the royalty on different applicable items as per the prevailing Government rates. In case, Employer is able to obtain the exemption of Royalty from the State Government, the contractor shall pass on the same to Employer for all the items involving Royalty.

**28.0 THE FACILITIES FOR WORKMEN**

**28.1** Following facilities are to be ensured at all work places where workmen are deployed/ engaged by Contractor & any other, as required by law at the time of execution.

- Arrangement of first aid

- Arrangement for clean drinking water.
- Toilets
- Canteen where tea & snacks are available
- A crèche where 10 or more women workmen are having children below the age of 6 years.

**29.0 ARBITRATION**

As per ITB

29.1

**30.0 PROJECT PLANNING, SCHEDULING AND MONITORING SYSTEM**

33.1 The Contractor shall follow the specifications with respect to Project Planning, Scheduling and Monitoring system as giving in Bidding Document.

**31.0 CHECKING OF LEVELS**

31.1 The Contractor shall be responsible for checking levels, orientation plan of all foundations, foundation bolts, etc., well in advance of taking up the actual erection work and bring to the notice of Engineer-in-Charge discrepancies, if any. In case of minor variations in levels etc. the Contractor shall carry out the necessary rectifications to the foundations within his quoted price.

31.2 The Contractor shall also be responsible for checking with templates, wherever necessary, the disposition of foundation bolts with the corresponding bases of structure and shall effect rectifications, as directed, within his quoted rate.

**32.0 STORAGE FACILITIES**

32.1 The Contractor shall maintain wherever required an air-conditioned room for the storage of the instruments as well as for calibration and testing of the instruments at his own cost. The contractor shall provide these facilities within the quoted price.

**33.0 ABNORMALLY HIGH RATED ITEMS (AHR ITEMS)**

Refer Clause no. 40 of ITB.

**34.0 BANK GUARANTEES**

34.1 The provision relating to submission of Bank Guarantee from any Nationalized Bank wherever appearing in above documents stand replaced by the following:

- i) Bank guarantees towards Bid Security from any Indian scheduled bank or a branch of an International bank situated in India and registered with Reserve Bank of India as scheduled foreign bank in case of Indian bidder and from any reputed International Bank or Indian scheduled bank in case of foreign bidder, may be accepted. However, other than the Nationalized Indian Banks, the banks whose BGs are furnished, must be commercial banks having net worth in excess of Rs.1000 Million and a declaration to this effect should be made by such commercial bank either in the bank guarantee itself or separately on a letter head.
- ii) Similarly, bank guarantees towards Performance and Advance Payments may

be accepted from any Indian scheduled bank or a branch of an International bank situated in India and registered with Reserve Bank of India as scheduled foreign bank in case of Indian bidder as well as foreign bidder. However, other than the Nationalized Indian Banks, the banks whose BGs are furnished, must be commercial banks having net worth in excess of Rs.1000 Million and a declaration to this effect should be made by such commercial bank either in the bank guarantee itself or separately on a letter head.

**35 VOID**

**36 COMPUTERIZED CONTRACTORS BILLING SYSTEM**

**36.0** Without prejudice to stipulation in General Conditions of Contract, Contractor should follow following billing system.

**36.1** The bills will be prepared by the contractors on their own PCs as per the standard formats and codification scheme proposed by BGCL / M/S EPMC. The contractors will be provided with data entry software to capture the relevant billing data for subsequent processing. Contractors will submit these data to BGCL / M/S EPMC in an electronic media along with the hard copy of the bill, necessary enclosures and documents. The contractor will also ensure the correctness and consistency of data so entered with the hard copy of the bill submitted for payment.

**36.2** Employer/Consultant will utilize these data for processing and verification of the Contractor's bill and payment."

**37 ORDER PLACEMENT OF BOUGHT OUT ITEMS**

The contractor is required to place firm order for all bought out items of adequate quantity (including 1<sup>st</sup> lot in those cases where items are required to be procured in more than one lot, if so stated in SOR/ SCC) within 30 days from the date of placement of order, failing which owner reserves the right to procure the same at the risk & cost of the contractor. However the contractor shall always take prior approval of owner and consultant for items required to be procured.

Further lots (for those cases where items are required to be procured in more than one lot, if so stated in SOR/ SCC) shall be procured after suitable period so as to ensure adequate availability of material at site through out the execution period).

**37 REQUIREMENTS FOR CONTRACTOR AT SITE**

**37.0** Contractor shall establish site office in the respective areas with adequate facilities like tables, chairs, telephone, and computer with mailing facility etc. for effective communication and documentation.

**37.1** Contractor shall provide as and when required a wagon(s) suitable for soil removal, for the delivery or reinstatement materials and for the transport of pipe to and from site.

**37.2** Contractor shall supply transport for their technical staff and operatives to move from site to site, and to move tools and equipment from site to site, this vehicle will also be fitted with a tow bar suitable for the towing of a mobile air compressor or pipe trailer.

- 37.3 Contractor shall make appropriate arrangements to ensure that their supervisor(s) are adequately mobile and can attend sites or meeting with BGCL/ M/S EPMC & other authorities or customers as required, without any undue delay.
- 37.4 Contractors shall provide cell phones to their supervisors for day to day communication with BGCL/ M/S EPMC and site representatives of BGCL/ M/S EPMC.
- 37.5 The RCM/ site in-charge must be a permanent employee of the contractor having desired qualification and work experience, Any change in key persons working at site shall be informed to the Owner promptly.
- 37.6 Owner will not allow switching/ swapping of key personnel of any contractor working at site from one contractor to another during the continuity of the contract.

### 38 COMPLIANCE WITH LAWS

38.0 The Contractor shall abide by all applicable rules, regulations, statutes, laws governing the performance of works in India, including but not limited to the following:

- Contract Labour (Regulation & Abolition) Act 1970 & the centre rules, 1971 framed there under.
- Payment of Wages Act.
- Minimum Wages Act.
- Employer's Liability Act.
- Factory Act.
- Apprentices Act.
- Workman's Compensation Act.
- Industrial Dispute Act.
- Environment Protection Act.
- Wild life Act.
- Maritime Act.
- Any other Statute, Act, Law as may be applicable.
- PNGRB Act.
- 

### 39 NOTES TO SCHEDULE OF RATES (SOR)

- i) The SOR items would be operatable as per job requirement.
- ii) The quantities stated in SOR are tentative and may vary considerably on  $\pm$  side depending upon site condition, methodology adopted as per site requirement. The payment will be made as per actual certified Measurement at site and as instructed by EIC.
- iii) The scope as mentioned in the SOR is of **indicative nature only** and shall include all activities as detailed in the relevant clauses of the specifications attached and other relevant documents enclosed with tender.
- iv) Any other materials & activities not mentioned/covered in SOR, but otherwise required for satisfactory completion/safety of work as defined in tender has to be supplied /done by contractor with in the specified schedule at no extra cost to owner.

v) **Void**

**41.0 Insurance**

All kind of Insurances including transit Insurance shall be borne & arranged by the bidder in line with clause no. 15 of GCC. Price quoted in SOR shall be inclusive of this cost.

**42.0 COMPENSATION FOR DELAY/ PRICE REDUCTION SCHEDULE (PRS) FOR ANY DELAY**

**42.1** Clause No: 27.0 of GCC, pertaining to Price Reduction Schedule stands modified to the following extent:

- i. The Price Reduction Schedule (PRS) shall be applicable separately for individual release orders.

The maximum PRS shall be 5% of total contract Price.

Contract value for PRS purpose shall be excluding final GST.

- ii. The total liability of the Contractor to Employer/ Consultant under sub clause no. 42.1.i on PRS shall not exceed 5% (Five Percent) of contract value. The compensation on account of any liability (ies) other than above shall be as per provisions of Bidding Documents.

**43.0 DIRECT PAYMENTS TO SUB-VENDORS/ SUPPORTING AGENCIES OF MAIN CONTRACTOR**

Normally, the payment is to be made to vendor/ contractor only as per provision of contract. During execution, in case of financial constraints, BGCL 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 request for direct payments to the sub-vendor/ sub-contractor shall be considered in performance evaluation of such vendor/ contractor.

**44.0 SUB-LETTING OF WORKS**

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.

Provided, nevertheless, that any such consent shall not relieve the contractor from any obligation, duty or responsibility under the contract.

However, subletting of WHOLE WORKS is prohibited. Vendor/ Contractor shall submit undertaking to this effect along with each invoice/ bill.

**45.0 BONUS FOR EARLY COMPLETION - Not applicable for this tender**

**46.0 JOINTS MEASUREMENT OF WORK EXECUTED, BILLING, INVOICE AND PAYMENTS.**

Measurement shall be recorded as per the methods of measurement spelt out in Specification/Contract Documents/ Procedure of BGCL Limited.

**47.0 WAY BILL / ROAD PERMIT:** Shall be issued by Owner only for transportation of free issue material from one state to another.

**48.0 LOCAL EMPLOYMENT**

In order to encourage local employment, contractor shall endeavour to deploy personnel pass-out from local institutes including execution of non-critical activities through local agencies. However, preference should be given to engage more unskilled manpower resources locally to boost local employment.

**49.0 COMPLETION CERTIFICATE**

Engineer-in-charges against the contract shall be RCM of PMC,

The completion certificate shall be issued by BGCL upon recommendation of the EIC.

The provisions of GCC are modified to this extent.

**50.0 ANNUAL RATE CONTRACT CONDITIONS:**

**50.1** The ARC contract shall be valid for 2 Years from the date of issuance of Fax of Acceptance (FOA).

**50.2** OWNER can award to contractor as per Schedule of Rates (SOR) in bid document as & when required during the validity of Rate Contract.

**50.3** Void.

**50.4** Separate release order (s) will be placed for required work during the validity of Rate Contract. Price Reduction Schedule for delay in completion, Defect Liability Period and contract value for Limitation of Liability will be applicable for each order (i.e. Release order) separately.

Completion period will be counted from date of release of order (letter of intimation).

**50.5** Owner envisages that there can be more than one front / section for Welding / Lowering of Pipes at a time, accordingly contractor shall be required to work for the all front / sections simultaneously and each front / section shall be dealt with exclusively separate so that project(s) schedule can be adhered to and completed on or before the date of completion.

**50.6** Quantity in SOR is estimated and payment will be made on actual work done based on release order (s) issued.

**ANNEXURES TO SCC**

**C O N T E N T S**

Annexure-1	:	Scope of Work
Annexure-2	:	Scope of Supply
Annexure-3	:	Time Schedule
Annexure-4	:	Measurement of Work
Annexure-5	:	Terms of Payment
Annexure-6	:	Quality Assurance
Annexure-7	:	Conditions for issue & reconciliation of material
Annexure-8	:	Minimum no. of Construction equipment to be deployed
Annexure-9	:	Minimum no. of skilled manpower to be deployed

## SCOPE OF WORK

(ANNEXURE-1 TO SPECIAL CONDITIONS  
OF CONTRACT)

## **ANNEXURE-1 TO SCC**

### **1.0 SCOPE OF WORK**

Scope of work shall be as detailed in Particular Job Specification, Technical Specifications, Schedule of Rates & various other parts of this Bidding Document.

## SCOPE OF SUPPLY

(ANNEXURE-2 TO SPECIAL CONDITIONS  
OF CONTRACT)

## **ANNEXURE-2 TO SCC**

### **1.0 SCOPE OF SUPPLY**

#### **1.1 Owner's Scope of Supply (Free Issue Item)**

Owner's scope of supply shall be as specified in Particular Job Specification, Technical Specifications, Schedule of Rates & various other parts of the Bidding Document.

In order to speed up the project Free Issue Materials on replacement basis shall be issued to the Contractor from the designated store(s) of BGCL Contractor shall be responsible for lifting the free issue materials from Owner's storage point(s) and transporting the same to work site(s) at his own cost.

Conditions for Issue and Reconciliation of Materials shall be as per Document enclosed as **Annexure-7** to Special Conditions of Contract.

#### **1.2 Contractor's Scope of Supply**

All materials except what is under Owner's scope of supply as mentioned in Clause No. 1.1 above, and required for successful completion of works in all respects shall be supplied by the Contractor and the cost of such supply shall be deemed to have been included in the quoted price without any additional liability on the part of Owner.

## TIME SCHEDULE

(ANNEXURE-3 TO SPECIAL CONDITIONS  
OF CONTRACT)

**ANNEXURE-3 TO SCC**

**TIME SCHEDULE**

The work is to be carried out within **06 months** from the date of issuance of Fax of Acceptance.

**Note:** The above time schedule is inclusive of mobilization period.

- 1) The time indicated is for completing all the works in all respects as per specifications, codes, drawings and instructions of Engineer-in-charge.
- 2) 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.

**(STAMP & SIGNATURE OF BIDDER)**

## MEASUREMENT OF WORK

(ANNEXURE-4 TO SPECIAL CONDITIONS  
OF CONTRACT – TECHNICAL)

## **ANNEXURE-4 TO SCC**

### **MEASUREMENT OF WORK**

#### **1.0 GENERAL**

- 1.1 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.
- 1.2 Payment will be made on the basis of joint measurements taken by Contractor and certified by PMC Engineer. Measurement shall be based on “Approved for Construction” drawings, to be the extent that the work conforms to the drawings and details are adequate. 3-5% checking of measurement work shall be by BGCL engineer.
- 1.3 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.
- 1.4 Measurements of weights shall be in metric tonnes corrected to the nearest Kilogram. Linear measurements shall be in meters corrected to the nearest centimeters.
- 1.5 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.
- 1.6 Welds, bolts, nuts, washers etc. shall not be measured. Rates for structural steel work shall be deemed to include the same.
- 1.7 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.
- 1.8 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	:	M (Meter)
iii)	Number	:	No.
iv)	Volume	:	Cu.M
v)	Area	:	Sq.M

#### **2.0 PIPING**

- 2.1 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.

#### **3.0 FOR PIPELINE CROSSINGS BY HDD (if required) / BORING / MOLING METHOD**

Payment shall be made as specified in SOR, PJS and Technical Specification.

## TERMS OF PAYMENT

(ANNEXURE-5 TO SPECIAL CONDITIONS  
OF CONTRACT)

**ANNEXURE-5 TO SCC**

1.0

**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 Owner's representative as per the agreed milestone payment schedule and the percentage break-ups given below.

Contractor shall submit his invoices to the Owner's representative monthly in the manner as instructed by Owner. Each invoice will be supported by documentation acceptable to Owner and certified by the Owner's representative. Payments made by owner to the contractor for any part of the work shall not deem that the Owner has accepted the work.

The Contractor has to raise the RA bill on monthly basis and payment shall be made as per the following terms:

**For SOR serial No. 26.00**

65%	In continuous stretches of minimum 100 Mtrs. including trench less laying or total scope whichever is less after completion of trenching, lowering, electro-fusion jointing of pipeline, back-filling and compaction for the complete stretch as per the scope of work.
10%	Making of PCC pedestal of grade (1:2:4) and size (8"x6"x4"), supply and installation of GI sleeve (Heavy (C-Class) as per IS-1239), filling of sand and installation of TF ( along with supply).
5%	Testing of network, installation of Permanent Markers & Valve chambers.
10%	Pre-Commissioning of the system with Nitrogen at positive pressure or Commissioning with gas charging of the PE pipeline (case decided by EIC) and material re-conciliation.
10%	Submission of all documents, submission of NOC, Submission of As built drawings. Closure of contract, Submission of final bill.

**For SOR serial No. 27.00 to 53.00 & 61.00 to 80.00**

60%	In continuous stretches of minimum 100 Mtrs. including trench less laying or total scope whichever is less after completion of trenching, lowering, electro-fusion jointing of pipeline, back-filling and compaction for the complete stretch as per the scope of work.
20%	Testing of network, installation of Permanent Markers & Valve chambers.
10%	Pre-Commissioning of the system with Nitrogen at positive pressure or Commissioning with gas charging of the PE pipeline (case decided by EIC) and material re-conciliation.
10%	Submission of all documents, submission of NOC, Submission of As built drawings. Closure of contract, Submission of final bill.

**For SOR serial No. 54.00 to 60.00**

75%	After Complete area wise restoration as per the standards (bidder may note that restoration work shall be carried out after testing/ pre-commissioning / gas charging in respective area).
15%	After obtaining NOC from respective local authorities / Third party Agencies designated by land owning agencies/ BGCL executive.
10%	After Completion of all works and closure of contract.

**For SOR serial No. 81.00 to 91.00, 99.00 to 102.00, 112.00 to 113.00, 119.00 to 122.00 & 170.00 to 176.00**

90%	Upon supply and Complete installation of item's and all its associated work.
10%	After submission of documents and closure of contract.

**For SOR serial No. 92.00 to 98.00 & 103.00 to 109.00**

50%	Upon supply of items including all Accessories and acceptance of supplied items at site.
40%	Upon Complete installation of item's and all its associated work.
10%	After submission of documents and closure of contract.

**For SOR serial No. 110.00 to 111.00**

Payment for the liasioning work shall be made for the actual length of network laid as follows:

50%	Payment on approval for the length applied
40%	Payment for the length applied shall be paid on the start of laying work.
10%	Payment along with final bill.

**For SOR serial No. 114.00 to 118.00**

50%	After submission of draft report/ data.
40%	Acceptance of final report/data.
10%	Payment along with final bill.

**For SOR serial No. 124.00 to 129.00**

75%	Upon Complete installation of items and its associated work
5%	Testing of installations.
10%	Pre-Commissioning with Nitrogen at positive pressure or Commissioning with gas charging including all related activities (case decided by EIC).
10%	After submission of documents and closure of contract.

**For SOR serial No. 131.00 to 169.00, 249.00 to 252.00 & 260.00 to 284.00**

90%	After completion of the work in all respects.
10%	After submission of documents and closure of contract

**For SOR serial No. 179.00 to 227.00 & 258.00 to 259.00**

75%	Completion of installation of pipes / meter/regulator including all fittings, valves, etc.
5%	Testing of installations & painting.
10%	Pre-Commissioning with Nitrogen at positive pressure or Commissioning with gas charging including all related activities (case decided by EIC).
10%	After submission of documents and closure of contract

**For SOR serial No. 228.00 to 237.00**

40%	Upon supply of items including all Accessories and acceptance of supplied items at site.
35%	Completion of installation of pipes including all fittings, valves, clamping etc.
5%	Testing of installations & painting.
10%	Pre-Commissioning with Nitrogen at positive pressure or Commissioning with gas charging including all related activities (case decided by EIC).
10%	After submission of documents and closure of contract

**For SOR serial No. 238.00 to 242.00 & 253.00 to 257.00**

75%	Upon Complete installation of Items and its associated work
15%	Testing of installations and Pre-commissioning with Nitrogen at positive pressure or commissioning with gas charging including all related activities (case decided by EIC).
10%	After submission of documents and closure of contract

**For SOR serial No. 243.00 to 248.00**

35%	supply of all associated items & its Accessories and acceptance of supplied items at site.
40%	Upon Complete installation of Items and its associated work
15%	Testing of installations and Pre-commissioning with Nitrogen at positive pressure or commissioning with gas charging including all related activities (case decided by EIC).
10%	After submission of documents and closure of contract

- 1) Any other work (Not mentioned above)
  - a) Completion of individual work as per SOR including supply (wherever applicable): 90%
  - b) Completion of all activities and their acceptance submission of final documents, final bill and acceptance of these by owner thereafter for successful closure of work order: 10 %

Note: Any further breakup of each activity for the payment purpose can be done depending upon the site situation/ requirement and recommendation by EIC and approval of construction in- charge.

**2) Payment Methodology**

- I. The Contractor shall raise invoices on monthly basis. Bidder shall enclose all documents as per checklist issued by BGCL/ PMC including during Kickoff meeting
- II. The payment of the contractor will be released within 15 days from the date of receipt of complete invoice and after certification of PMC as per terms and condition of the contract.
- III. Employer will release payment through e-payments only as detailed in bidding document.
- IV. All payments against running bills are advance against the work and shall not be taken as Final acceptance of work / measurement carried out till the final bill.
- V. Further break-up of Lump sum Prices, if deemed necessary for any progressive payment of individual item may be mutually arrived at between Engineer-in-Charge and the Contractor.
- VI. Successful bidder(s) to submit material reconciliation certificate along with each bill.
- VII. Bills shall be raised by contractor in line with check list attached in Tender document.
- VIII. As per CBDT Notification No. 95/2015 dated 30.12.2015, mentioning of PAN no. is mandatory for procurement of goods / services/works/consultancy services exceeding Rs. 2 Lacs per transaction.  
  
Accordingly, supplier/ contractor/ service provider/ consultant should mention their PAN no. in their invoice/ bill for any transaction exceeding Rs. 2 lakhs. As provided in the notification, in case supplier/ contractor/ service provider/ consultant do not have PAN no., they have to submit declaration in Form 60 along with invoice/ bill for each transaction.  
  
Payment of supplier/ contractor / service provider/ consultant shall be processed only after fulfillment of above requirement.
- IX. BGCL' PAN No. is AAICB1994M.
- X. After receipt of complete RA Bill as per terms and conditions of the contract and duly certified by Engineer-in-Charge (EIC)/PMC, on-account payment equivalent to seventy percent (70%) of the net payable certified amount of the RA Bill will be released to the contractor within a period of 07 working days from submission of certified bill by PMC to BGCL. The balance amount will be released within a period of 15 days from submission of certified bill by PMC to BGCL.

# QUALITY ASSURANCE

(ANNEXURE-6 TO SPECIAL CONDITIONS OF CONTRACT)

(For details- Refer our Technical Specification same is enclosed in Vol.-II of tender document.)

# CONDITIONS FOR ISSUE AND RECONCILIATION OF MATERIAL

(ANNEXURE-7 TO SPECIAL CONDITIONS OF CONTRACT)

## **ANNEXURE-7 TO SCC**

### **1.0 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.

- 1.1 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.
- 1.2 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.
- 1.3 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.
- 1.4 No material shall be allowed to be taken outside the plant without a gate pass.
- 1.5 The contractor shall be responsible for proper storage, preservation and watch & ward of the materials.

### **1.6 Reconciliation of Owner supplied materials**

- 1.6.1 Every month, the contractor shall submit an account for all materials issued by Owner in the proforma 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 proforma prescribed by the Engineer-in-charge.

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

<b>Item</b>	<b>Unaccountable</b>	<b>Scrap</b>
Regulators & Meters	0%	0%
PE Pipes	2%	2% (less than 2.0 mtrs.)
GI Pipes*	2%	2% (less than 0.5 mtrs.)
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.

- 1.6.2 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. 125% 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.

- 1.6.3 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.

# CONSTRUCTION EQUIPMENT TO BE DEPLOYED

(ANNEXURE-8 TO SPECIAL CONDITIONS  
OF CONTRACT)

**ANNEXURE-8**  
**MINIMUM NO. OF CONSTRUCTION EQUIPMENT TO BE DEPLOYED**

Sl. No.	Description of Item	Qty. to be Deployed* for Kolkata GA (by each Contractor)
i.	Electro-fusion machine with <b>Bar Code, GPS antenna, Memory to store up to 2048 weld data, USB interface and control box with leads</b>	2
ii.	Moling Equipment	As and when required
iii.	PE Squeeze Tools for 20mm to 180mm Pipes	2
iv.	Universal pipe scrapper 20mm to 180mm / hand scrappers	2
v.	Tapping tools for PE service tees	2 sets of all size
vi.	PE pipe cutter / Guillotine	2
vii.	Gas detection equipment, wherever required	As and when required
viii.	Cable and pipe locator	As and when required
ix.	PE closure plugs / test ends for 20mm to 1mm pipes	As and when required
x.	Towing heads	As required
xi.	Pipe alignment clamps, jointing of elbow, tee, top loading clamps for top tee	2
xii.	Pipe straighteners, re-rounding tools of all pipe sizes	2
xiii.	Jumping Jack compactor	As and when required
xiv.	Roller for asphaltting	As and when required
xv.	Water tanker	As and when required
xvi.	Hammer Drill	2
xvii.	Power Generator a) 5.5 kVA, b) 2.5kVA	1 2
xviii.	Piston Drill	As and when required
xix.	Conversion Kit	As and when required
xx.	Pneumatic Test Pumps	2
xxi.	Die sets for thread preparation	2
xxii.	Soldier Torch	4
xxiii.	Cleaning pads	4
xxiv.	Cleaning Brush	4
xxv.	Voltage Stabilizer	2
xxvi.	Calibrated Pressure Gauge (0-6 Bar)	4
xxvii.	Acetone/ H2O2 (pipe cleaner)	As and when required
xxviii.	Harness belts & clamps	As and when required
xxix.	Water drainage pump	As and when required

**\* Number of equipment indicated here in above may be revised by Engineer In-charge for various sites depending on quantum of work and work front made available to the contractor. Any additional equipment requirement, whenever asked for by the Engineer In-charge, shall be deployed by the contractor at site without any additional cost to Owner.**

Notes:

- Any other equipment required for completion of pipeline laying work but not specifically mentioned hereinabove, shall be deployed by contractor without any additional cost to Owner. Contractor shall deploy above mentioned equipments in good working condition & properly calibrated.

2. Mobilization shall be considered complete only after equipments having quantity specifically mentioned hereinabove / quantity decided by engineer-in-charge on case to case basis at site are made available at site in good working condition as verified by EIC.
3. In case contractor fails to mobilize resources/ machinery as shown in Annexure 8 (Minimum no. of construction equipment to be deployed) a penalty of Rs. 25000 per week shall be levied and the same shall be deducted from monthly invoices of contractor.

**(SIGNATURE OF BIDDER)**

# MINIMUM NO. OF SKILLED MANPOWER TO BE DEPLOYED

(ANNEXURE-9 TO SPECIAL CONDITIONS  
OF CONTRACT)

**ANNEXURE-9**  
**MINIMUM NO. OF SKILLED MANPOWER TO BE DEPLOYED**

S.No	Description	Requirement
1	Resident Construction Manager /Section Incharge	0
2	Civil / Mechanical Engineer	0
3	Safety Officer	0
4	Foreman/Supervisor	1
5	Document Controller	0
6	Store Keeper/ Store in-charge	1
7	Fusion Operator/ Joints	1
8	Skilled Workers (GI Plumber)	2
9	NG Conversion Team	1
10	Skilled Workers (Moling Team)	0
11	Electrician	0
12	Unskilled Workers (Labour)	4

The above proposed list of skilled manpower is the minimum to be deployed by Contractor.

**(SIGNATURE OF BIDDER)**

NOTES:

1. Supervisor should be posted at Site.
2. The details of minimum manpower required to be mobilized by the execution contractor to complete the work within schedule is given above and is not exhaustive. Contractor is required to augment the above list with additional numbers/categories of workmen as required and directed by Engineer-In charge to complete the work within the completion time schedule and quoted price.
3. The Manpower as identified above should have required qualification and adequate relevant experience. EIC shall have the right to not to accept any of them if found not fit for the work. Decision of EIC in this regard shall be final and binding.
4. This manpower is to be mobilized within 30 days of award of work.
5. \*The minimum no. of skilled manpower to be deployed may however vary (increase/decrease) depending on availability of work front. The decision of EIC in this regard shall be final.

STANDARD CONDITIONS OF SCC: PART II

**Compliances under various Labour Laws**

The Contractor has to fully comply with all applicable Labour Laws and Regulations passed, modified and notified from time to time by the Central, State and Local Government agencies/authorities. Specific attention of the Contractor is drawn to the following obligations amongst others:

**1. The Minimum Wages Act, 1948, Payment of Wages Act, 1936 and Payment of Bonus Act 1965 or The Code on Wages, 2019 (after it comes into force)**

**1.1. Minimum Wages:**

- a. During the tenure of the contract, the Contractor must ensure the payment of minimum wages, as notified by the Central Government or State Government whichever is higher, as per the provisions of the Minimum Wages Act, 1948 / Code on Wages, 2019 (after it comes into force).
- b. **Wage period and monthly wages:** Wage Period shall be monthly and wages for a month shall be calculated by multiplying daily rate of Minimum Wages by 26. The monthly wages include the wages of the weekly days of rest as applicable to the office/establishment of BGCL.

**Deduction in case of any days of absence other than weekly days of rest shall be calculated using the following formula:**

Deduction of Absence = days of absence X applicable wage rate.

**1.2. Payment of Wages:**

The Contractor shall disburse monthly wages **through e-banking / digital mode through cashless transaction only**, and avoid illegitimate deductions and maintain records /returns as prescribed. The Contractor shall be solely responsible for the payment of wages and other dues to the resources, if any, deployed by him latest by 7<sup>th</sup> day of the subsequent month as per the provisions of the Payment of Wages Act, 1936 / as applicable under Code on Wages, 2019 (after it comes into force) in the presence of Engineer In-charge (EIC) or authorized representative of BGCL. After disbursement of wages, the representative of the Contractor and EIC/ authorized representative of BGCL have to certify the payment of wages to the resources and sign the Wage Register - Form B (under The Ease of Compliance to Maintain Registers under various Labour Laws Rules, 2017) / FORM-I of Code on Wages, 2019 (after it comes into force) with specific seal detailing name/designation/Company.

**1.3. Payment of Bonus:**

Contractor shall ensure payment of bonus as per the provisions of the Payment of Bonus Act, 1965 / Code on Wages, 2019 (after it comes into force). Present minimum rate of payment of Bonus as per the Payment of Bonus Act, 1965 is 8.33% of minimum wages per month or 8.33% of Rs.7,000/- per month whichever is higher. The rate shall be subject to amendments made from time to time to the legislation.

Payment of Bonus / ex-gratia (if Bonus is not applicable) shall be made preferably before Deepawali

festival falling after the end of relevant financial year(s) and the balance payment at the time of closure of contract.

## 2. Leaves/ Leave with wages/ Holiday:

The Contractor shall comply with all the applicable leave Rules including leave with wages in terms of applicable labour legislations i.e. Factories Act, 1948 / Shops & Establishment Act/ *Industrial Establishment (national & festival holidays, casual & sick leave) Act, 1965.*

The Contractor shall extend the leave with wages and maintain the Register of Leave pertaining to the resource deployed. The payment towards un-availed leave, as per the Factories Act, 1948 / Shops & Establishment Act, shall be settled with the resource at the time of closure of the contract or separation of resource from the contract by the contractor.

- i. As per the **Factories Act, 1948 (if applicable)**:-Annual Leave with Wages @ 01 day for every 20 days of work performed by him in the previous calendar year becomes due.
- ii. As per the **Shops & Establishment Act (if applicable)** : 10 days Casual leave.,14 days Privilege leave & 7 days sick leave.
- iii. *As per the Industrial Establishment (national & festival holidays, casual & sick leave) Act,1965/Negotiable Instrument Act 1881/Shops & Establishment Act (as applicable)*: (a) three national holidays of one whole day each on the 26<sup>th</sup> January, 15<sup>th</sup> August and 2<sup>nd</sup> October (b) five other holidays on any of the festivals specified in the - Schedule appended to this Act. (c) Every worker shall in each calendar year, be allowed by the employer 07 casual leave and 14 sick leave in such manner and on such conditions as may be prescribed. However, it will be as per West Bengal State.

## 3. The Employees' Provident Fund & Miscellaneous Provisions Act 1952

- a) The Contractor shall have independent PF code no. with the RPFC as required under the Employees' PF& Misc. Provisions Act, 1952.
- b) The Contractor has to ensure compliance (as per prevailing rates) and extend benefits under the Employees' Provident Fund Scheme 1952, the Employees' Pension Scheme 1995 & the Employees' Deposit Linked Insurance Scheme, 1976 to the resources deployed by him.
- c) The Contractor is required to submit copies of *separate e-Challans / ECR along with proof of payment/receipt* in respect of resources engaged through this contract only, on monthly basis. **Commonchallans would not be acceptable in BGCL.** The Contractor should submit copies of previous months EPF e-Challans / ECR along with current month's bill. The TRRN. No. of the ECR would be verified online from EPFO portal by the Engineer-in-charge to confirm the status of payment and names of the resources deployed.

**PF is mandatory irrespective of the number of resources deployed** by the Contractor under this contract. PF membership and deposit of PF contribution is also mandatory even if the wage payment to the resource is exceeding the prescribed monthly wage ceiling ( i.e. Rs. 15,000/-) under the Employees' PF & Misc. Provisions Act, 1952 and in such case the liability of the Contractor towards PF contributions shall be limited to the prescribed monthly wage ceiling notified from time to time (i.e. Rs. 15,000/- currently).

- d) In case, the Contractor deploys any “**International Worker**”, the Contractor should also make compliance under para 83 of EPF Scheme, 1952 i.r.o. the “International Workers” and must register on the *International Worker Portal of EPFO*.

**4. The Employees’ State Insurance Act, 1948 (If applicable and as per prevailing rates)**

- a) The Contractor shall have his own ESI code No. allotted by Employees’ State Insurance Corporation(ESIC) as required under the Employees’ State Insurance Act, 1948.
- b) The Contractor has to arrange **Smart Cards (i.e. ESI Identity Card) /e-Pehchan Card** for theresource(s) engaged by him from the Corporation.

**5. The Employees’ Compensation Act 1923 (wherever applicable)**

In case, the work place is out of the notified coverage area under ESIC i.e. ESIC is not implemented in the area **or** in case of excluded employees under ESIC, the Contractor is required to take Employee Compensation / Workmen Compensation Policy from IRDAI approved Insurance Company taking into consideration the maximum compensation liability as per provisions of Employees’ Compensation Act, 1923. It must be ensured that the contractor/contracting firm should extend coverage to the contract workers through Employee Compensation Policy, to meet the Compensation Liability under **Employee’s Compensation Act, 1923** along with **Medi-claim Floater Policy with a coverage of Rs.3 Lakhs per resource covering his/her spouse and two children**.

**6. Group Personal Accident Insurance Policy**

The Contractor is required to take a Group Personal Accident Insurance Policy with coverage of **Rs. 5 Lakhs** (covering death, permanent disability + partial disability) per resource for the entire period of contract covering all resources deployed under the contract.

**7. The Payment of Gratuity Act, 1972**

In case of Death or permanent disablement of a resource during execution of work under the contract, the Contractor has to pay the Gratuity as per the provision under the Payment of Gratuity Act, 1972 to the nominee(s) of the resource as per the details maintained in the duly signed Nomination Form maintained by the Contractor. The proof of disbursement may be submitted to the EIC for claiming reimbursement of amount paid towards death Gratuity from BGCL.

**8. The Contract Labour (R&A) Act, 1970**

- a) The Contractor is required to obtain Labour license under the provisions of the Contract Labour (R&A) Act, 1970 from the office of Licensing Officer, Central Labour Authority, Ministry of Labour and Employment, Govt. of India having jurisdiction of the Region.
- b) The Contractor shall discharge obligations as provided under the Contract Labour (R&A) Act, 1970 rules and regulations framed under the same and enforced from time to time.

बंगाल गैस कंपनी लललितेड BENGAL GAS COMPANY LIMITED  
(गेल एवि जीसीजीएससीएल का संयुक्त उद्ये) (A JV Company of GAIL and GCGSCL)

- c) The Contractor shall ensure regular and effective supervision and control over the resources deployed for which a supervisor / representative of the Contractor should be available at all the times for giving suitable direction for undertaking the Contractual Obligations.
  - d) The Contractor is solely responsible for payment of wages to each resource deployed by him and such wages shall be paid before the expiry of such period as may be prescribed.
  - e) It shall be the duty of the Contractor to ensure the disbursement of wages to resource(s) through e- banking/digital mode. In case the resource does not have a bank account, the disbursement of wages maybe made in cash in the presence of the Engineer-in-charge / authorized representative of BGCL initially and Contractor shall simultaneously arrange for opening the bank account of each contract labour deployed by him.
  - f) In case, the Contractor fails to make payment of wages and deposit of PF contribution within the prescribed period or makes short payment of wages / short deposit of PF contribution, **it shall be treated as FAILURE and action as per the provisions of General Conditions of Contract shall be taken. Further** BGCL, as Principal Employer, will make payment of wages in full or the unpaid balance due, asthe case may be, to the resource(s) deployed by the Contractor and deposit the PF contribution with PF authorities. Such amounts will be recovered from the Contractor either by deduction from any amount payable to the Contractor under any contract or as a debt payable by the Contractor.
9. The contractor is required to comply with all applicable labour laws and regulations including, but not limited to the following:
- a) The Factories Act, 1948 / The Shops & Establishment Act, 1948 (which ever applicable)
  - b) The Maternity Benefit Act, 1961
  - c) The Inter State Migrant Workmen (RECS) Act 1979 (if applicable)
  - d) Contract Labour (R&A) Act-1970
  - e) Employees' Provident Fund & Misc. Provisions Act- 1952
  - f) Employees' State Insurance Act-1948
  - g) Employees' Compensation Act, 1923
  - h) Payment of Gratuity Act, 1972
  - i) Minimum of Wages Act,1948
  - j) The Payment of Wages Act,1936
  - k) The Payment of Bonus Act,1965

STANDARD CONDITIONS OF SCC: PART III

**Responsibilities of the Contractor**

- 1 The Contractor shall be solely responsible and indemnify BGCL against all charges, dues, claim etc. arising out of the disputes relating to the dues and employment of resources, if any, deployed by him.
- 2 The Contractor shall indemnify BGCL against all losses or damages, if any, caused to it on account of acts of the resource(s) deployed by him.
- 3 The Contractor shall indemnify BGCL from all claims, demands, actions, cost and charges etc. brought by any court, competent authority / statutory authorities against BGCL.
- 4 The Contractor shall also indemnify BGCL for any action brought against him for violation, non-compliance of any act, rules & regulation of center / state / local statutory authorities.
- 5 All resources deployed by the Contractor are deemed to be on the rolls of the Contractor.
- 6 **Age:** No resource below the age of **18 years** shall be deployed by the contractor for the execution of the contract. However, maximum age of resources deployed under the contract would be 60 years.
- 7 **Appointment/Nomination of supervisor:**

As a part of the contract, the Contractor is required to appoint/nominate a supervisor (s) who will supervise, control and give directions to the resource(s) for discharging the contractual obligations. Accordingly, the Contractor has to give in writing the name and contact details of the supervisor (s) to the EIC. A copy of the same is also to be sent to HR In-charge and Security In-charge for records.
- 8 A copy of the Letter of Acceptance (LOA) should be submitted to the Security Department by the Contractor / his representative or supervisor for facilitating the movement of resource(s) including machine & materials involved in the contract.
- 9 The resources to be deputed/ deployed by the Contractor shall observe all security, fire and safety rules of BGCL while at the site/work. All existing and amended safety / fire rules of BGCL are to be followed at the work site by the Contractor and his deployed resource(s).
- 10 **Personal Protective Equipment / Safety Kit and Liveries:** Contractor shall ensure adequate supply of personal protective equipment / Safety Kit and Liveries as mentioned in the Scope of Work to all such resources deployed.
- 11 In case of accident, injury or death caused to the resource(s) while executing the Work under the contract, the Contractor shall be solely responsible for payment of adequate compensation, insurance money etc. to the next kith & kin of injured / diseased. Contractor shall indemnify BGCL from such liabilities.
- 12 The Contractor shall not deploy any resource suffering from any contagious or infectious disease. The Contractor shall get the deployed resource(s) examined from a civil Govt. Doctor / BGCL's Doctor.

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- 13 No resource(s) or representatives of Contractor (including Contractor) are allowed to consume alcoholic drinks or any narcotics within the premises of BGCL (including Plant, Office and Residential etc.). If found under the influence of above, the Contractor shall immediately replace that resource(s) with intimation to the EIC.
- 14 While engaging / deploying the resources, the Contractor is required to make efforts to provide opportunity of employment to resources belonging to **Schedule Caste, Schedule Tribe and Other Backward Class** in order to have a fair representation of these sections of the society.
- 15 While engaging the resources, the Contractor is required to make efforts to provide an **opportunity to** candidates with experience of **apprentice training in BGCL** under the provisions of the Apprentices Act,1961.
- 16 The Contractor is required to setup their office to maintain all Registers and other records at a place within a radius of **three kilometers of BGCL's registered office.**
- 17 Contractor shall provide proper **Employment cards (FORM XII)** for the resource to be deployed byhim, duly signed by the Contractor or authorized person on behalf of Contractor.

18 **Gate/Entry Pass or Authorization:**

Entry to the premises of BGCL is restricted and is subject to appropriate entry authorization in the prescribed format of a Gate Pass or any other entry authorization w.r.t police verification as per instruction of Security department from time to time. Similarly, entry for material/ equipment's/ tools/ tackles etc. is restricted & subject to entry authorization by security department.

- 19 The Contractor shall issue **Identity cards** in his firm's name to the resource deployed.
- 20 Discipline of the resource(s) during discharge of duties must be regulated by the Contractor himself or by his representative.

21 **Police verification**

- a) The Contractor (including his sub-Contractors/Petty Contractors etc, if allowed) will undertake police verification in respect of the resource(s) engaged by him in BGCL's premises. Such verification will have to be carried out from concerned police station of their permanent place of residence/present place of residence.
  - b) Further, the Contractor is advised not to deploy any resource having past criminal record in the establishment/premises of BGCL under this contract awarded to him.
  - c) In the event of violation of above clauses at (a) and (b), the Contractor will be solely responsible forthe same.
  - d) If any such resource(s) having criminal record is deployed by the Contractor in the premises of BGCLand has come to the notice of BGCL at any point of time, the Contractor shall immediately replace that resource(s), failing which that particular resource(s) of the Contractor will not be allowed to enter into the premises of BGCL.
- 22 *While confirming to any of these conditions, the Contractor must ensure that all applicable Laws of State regarding labour, their welfare, conduct etc. are complied.*
  - 23 *The contractor shall ensure the KYC of contract workers in EPFO portal at all time during the period of contract and submit a proof of the same to the Engineer-in-charge periodically.*
  - 24 *The contractor shall ensure that the nomination of contract workers deployed by him under the said contract is duly updated in the EPFO portal periodically*



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**STANDARD CONDITIONS OF SCC: PART IV**

**Compliance of Government of India Directives**

**1. Pradhan Mantri Suraksha Bima Yojna (PMSBY) and Pradhan Mantri Jeevan Jyoti Bima Yojna (PMJJBY)**

Contractor shall, ensure that all its resources deployed under this contract have obtained additional insurance coverage under the Pradhan Mantri Suraksha Bima Yojana (PMSBY) and Pradhan Mantri Jeevan Jyoti Bima Yojana (PMJJBY) through the participating banks and submit the proof of such insurance coverage to the satisfaction of BGCL. The cost has been included in the estimate mentioned in SOR and the Contractor shall submit evidence / proof to BGCL in this respect. Both the schemes are to be regulated continuously on yearly basis and the same should be renewed on each successive relevant date in subsequent years during the period of the contract.

**2. Labour Identification Number (i.e. LIN) Registration (Mandatory)**

The Unified Shram Suvidha Portal, developed by Government of India, facilitates reporting of Inspections & submission of Returns and has also been envisaged as a single point of contact between employer, resources and enforcement agencies bringing in transparency in their day-to-day interactions. For integration of data among various enforcement Agencies, the Contractor, as an inspectable unit, is required to register and obtain Labour Identification Number (i.e. LIN) from Shram Suvidha Portal and submit the same in BGCL.

**3. Pradhan Mantri Rojgar Protsahan Yojna (PMRPY)/ Aatmanirbhar Bharat Rozgar Yojana (ABRY)/Pradhan Mantri Garib Kalyan Yojana – if applicable**

In order to support the Govt. of India's Initiative on Employment Generation, the Contractor must register for Pradhan Mantri Rojgar Protsahan Yojna (PMRPY) Scheme/Aatmanirbhar Bharat Rozgar Yojana (ABRY)/Pradhan Mantri Garib Kalyan Yojana(as applicable). In service contracts, the Contractor shall inform BGCL/Engineer in Charge about the benefit availed, if any, against the scheme for adjustment against the invoice(s) / bill(s).



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STANDARD CONDITIONS OF SCC: PART V

**Records and Registers**

**1. Maintenance of records and registers**

The Contractor is required to maintain statutory records and registers for applicable labour laws as prescribed under the following rules:

- a) Ease of Compliance to Maintain Registers under the various Labour Laws, 2017
- b) Rationalization of Forms and Reports under Certain Labour Laws Rules, 2017
- c) Labour Codes (after they are made effective by Government of India)

**2. The Contractor has to maintain the following (but not limited to) Registers/ Forms/ Reports / Returns at alltimes:**

- a) Employee Register in FORM A (to be replaced by FORM – IV of Code on Wages-2019 after it comes into force)
- b) Wage Register in FORM B (to be replaced by Register of Wages, Overtime, Fine, Deduction for damage and Loss in FORM – I of Code on Wages-2019 after it comes into force)
- c) Register of Loan / Recoveries in FORM C
- d) Attendance Register in FORM D
- e) Register of rest/leave/leave wages in FORM E
- f) Copies of Wage Slips in FORM XIX (to be replaced by FORM – V of Code on Wages-2019, after it comes into force)
- g) Copies of Employment Card in FORM XII

**3. Documents to be submitted by the Contractor to EIC at various stages during the currency of the contract**

**a) Immediately after issuance/receiving of Letter of Acceptance (LOA)**

- i. Details as required for issuance of **FORM - VII (Notice of Commencement of Work)**
- ii. Application for issuance of **FORM –III (Form of Certificate by Principal Employer)** for obtaining Labour License from Licensing Authority for engaging 20 or more resources.
- iii. Copy of **FORM - VI (License)** before commencement of work if 20 or more resources are engaged.
- iv. Copy of **Provident Fund Registration Certificate** issued by concerned Regional Provident Fund Commissioner.
- v. Copy of **ESI Registration Certificate** issued by concerned ESIC.
- vi. Copies **Insurance Policy(ies)** as mentioned at **Annexure-iv**
- vii. Copy of **Labour Identification Number (i.e. LIN) Registration** done in **Shram Suvidha Portal** of Govt. of India.

**b) At the time of submission of monthly bills**

- i. Copy of **Employee Register in FORM – A** under The Ease of Compliance to Maintain Registers under various Labour Laws Rules, 2017 (to be replaced by FORM – IV (of Code on Wages-2019, after it comes into force).
- ii. Copy of **Wage Register in FORM – B** under The Ease of Compliance to Maintain



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Registers under various Labour Laws Rules, 2017 ( to be replaced by Register of Wages, Overtime, Fine, Deduction for damage and Loss in FORM – I of Code on Wages-2019, after it comes into force) duly certified by **authorized representative** of the Contractor and **authorized person** in BGCL certifying as “*Certified that the amount shown in the column No has*

*been paid to the workman concerned in my presence on-----(date) at (place)”* along with **copy of bank statement** duly certified by bank and **copy of online transaction statement against each resource with details of name, account number, amount paid & date of payment** as proof of as proof of **Cashless Transaction / Payment of wages throughe-banking/digital mode.**

- iii. As a part of compliance and proof of depositing Provident Fund, EDLI and ESI contributions the Contractor shall submit copies of the **Separate e-Challans / ECR**, bank receipts/bank statement in **respect of resources deployed in BGCL in the previous month in this contract**. The documents shouldalso contain details of resources, PF account No., ESI No., contributions of resources and employer etc.
- iv. Dully filled in details as per **Annexure- i**
- v. Copy of Wage Slips in FORM XIX

**c) At the time of closure of contract**

- i. **Indemnity Bond** of Rs. 100/- duly notarized from Notary indemnifying BGCL from all liabilities  
w.r.t. the resource engaged by the Contractor regarding payment of wages, Provident Fund/ESI contributions, Insurance and other statutory payments. Format for Indemnity Bond is enclosed at **Annexure- ii**.
- ii. Copy of the **Wage Register in FORM – B** ( to be replaced by FORM-I of Code on Wages-2019 after it comes into force) for the last month.
- iii. Copies of **Service Certificates** issue to resource in **FORM VIII**
- iv. Copy of the ECR related to EPF and ESIC Compliance in respect of Resource.
- v. Details as required for issuance of **FORM - VII (Notice of Completion of Work)**
- vi. Copies of FORM-C & FORM –D under the Payment of Bonus Act 1965 as proof of paymenttowards Bonus.
- vii. Copy of proof towards release of Leave Encashment
- viii. Copies of No Dues Certificate from contract workers stating they have received all statutorypayments and social benefits.
- ix. *Proof towards PF KYC compliance of contract workers*

**5. Verifications of bills and documents submitted by the Contractor**

Before certifying/verifying the running/ final bill/invoice of the Contractor, the designated EIC of the respective contract of BGCL, shall verify from the ECRs of PF/ESI, through respective web portals, the detail/status of the payment made by the Contractor. In case the information furnished by the Contractor isfound to be incorrect, BGCL shall take appropriate action against the Contractor under relevant conditions as available in the tender document.

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**Annexure-i**

Details in support of RA Bill for the Month of \_\_\_\_\_, 20\_\_\_\_

1. Name of the Firm/Agency/Contractor \_\_\_\_\_
2. Nature of Contract: Job/ Service \_\_\_\_\_
3. Period of Contract: From \_\_\_\_\_ to \_\_\_\_\_  
(c) Extension Period of Contract, if any from \_\_\_\_\_ to \_\_\_\_\_  
(d) Place where contract workmen are working \_\_\_\_\_
4. Postal address of the Contractor: \_\_\_\_\_
5. Phone No. of the Contractor: \_\_\_\_\_
6. Fax No. and Email of the Contractor: \_\_\_\_\_
7. Name and Address of PF office from where EPF Code No. has been allotted: \_\_\_\_\_
8. EPF Code No. allotted by PF office: \_\_\_\_\_
9. Name and Address of ESIC office from where ESI Code No. has been allotted: \_\_\_\_\_
10. ESI Code No. allotted by ESIC office: \_\_\_\_\_
11. Labour License No. \_\_\_\_\_ dated \_\_\_\_\_
12. Validity period of Labour License from \_\_\_\_\_ to \_\_\_\_\_
13. Detail of Resource engaged by the Contractor:

Category	No. of Resources		Prevailing Minimum Wages
	Male	Female	
Unskilled			
Semi-skilled			
Skilled			
Highly skilled			
Total			

14. Copy of Wage Register in FORM – B ( to be replaced by FORM-I as per Code on Wages-2019, after it comes into force)
15. Details of deposit of contribution towards EPF:  
a) EPF Challan No. \_\_\_\_\_ Amount \_\_\_\_\_ Date \_\_\_\_\_
16. Details of Deposition of contribution towards ESI  
b) ESI Challan No. \_\_\_\_\_ Amount \_\_\_\_\_ Date \_\_\_\_\_
17. Whether any arrangement / agreement has been entered with any resource for extending benefits under Inter-state Migrant Workmen (RE&CS) Act, 1979: (Yes / No)  
If Yes, No. of such Inter-state Migrant Workers: \_\_\_\_\_

SIGNATURE OF CONTRACTOR/AUTHORIZED REPRESENTATIVE

Place:

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## SECTION VI

# PARTICULAR JOB SPECIFICATION

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## SCOPE OF WORK

## SECTION VI

### PARTICULAR JOB SPECIFICATION & SCOPE OF WORK

Serial No.	CONTENTS
1	Project Description & Scope of Work
2	General Terms and Condition
3	Procurement
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19	Appendix-I to Particular Job Specification ( LIST OF APPROVED SUPPLIER FOR BOUGHT OUT ITEMS)
20	ANNEXURE 13-TECHNICAL SPECIFICATIONS FOR GIS DEVELOPMENT WORKS.

## **1.0 PROJECT DESCRIPTION**

Bengal Gas Company Limited (BGCL), A Joint Venture of GAIL (India) Limited (A Maharatna CPSE) and Greater Calcutta Gas Supply Corporation Limited (A Govt. of West Bengal Enterprises) has been established inter-alia for undertaking marketing, distribution and supply of Piped Natural Gas and Compressed Natural Gas in the geographical area of Kolkata and parts of its adjoining districts of North 24 Parganas, south 24 Parganas, Howrah, Hooghly and Nadia (KOLKATA GA).

BGCL has been authorized for implementation of City Gas Distribution project by Petroleum and Natural Gas Regulatory Board for implementation of CGD project in the geographical area of Kolkata and parts of adjoining districts.

This tender deals with the laying, testing and commissioning of 4.42 KM underground Medium Density Polyethylene (MDPE) main pipeline and service pipelines of sizes ranging from 20mm to 90mm OD from DCU / DRS / MRS (including CS/PE transition fittings covering PE end only) to PE network pipelines for Piped Natural Gas supply to domestic and commercial consumers at KOLKATA GA. The scope of work also covers 500 nos. PNG connections for domestic consumers.

### **1.1 SCOPE OF WORK**

The scope of work involves providing PNG connections to about 500 nos of consumers at Kolkata GA.

The scope of work also covers laying, testing and commissioning of Approx 4.42 KM Underground Polyethylene (PE) pipelines of sizes 20mm to 90 mm OD from the DCU/DRS/MRS to various end point consumers of Piped Natural Gas (PNG) in **KOLKATA GA**. Other than MDPE pipe, GI Pipes ( ½” , ¾”, 1”), Meters & Regulators, all other materials including GI pipes (quantity as per SoR) shall be procured by the contractor as indicated in SoR.

## **2.0 GENERAL Terms and Condition**

- i. Special Condition of Contract shall be read in Conjunction with the General Conditions of Contract, SOR, PJS of work, specifications, Drawings and any other documents forming part of this contract wherever the context so requires.
- ii. Notwithstanding the sub-division of the documents into these separate sections and volumes every part of each shall be deemed to be supplementary to and complementary of every other part and shall be read with and into the contract so far as it may be practicable to do so.
- iii. Where any portion of the General Condition of Contract is repugnant, to or at variance with any provisions of the Special Conditions of Contract, unless a different intention appears, the provisions of the Special Conditions of Contract shall be deemed to over-ride the provisions of the General Condition of Contract and shall to the extent of such repugnancy or variations, prevail.
- iv. The materials, design and workmanship shall satisfy the relevant INDIAN STANDARDS, the TECHNICAL SPECIFICATIONS contained herein and Codes referred to. Where the technical specification stipulate requirements in addition to those contained in the standard codes and specifications, these additional requirements shall also be satisfied.
- v. Wherever it is mentioned in the specifications that the CONTRACTOR shall perform certain work or provide certain facilities, it is understood that the CONTRACTOR shall do so at his cost and the VALUE OF CONTRACT shall be deemed to have included cost of such performance and provisions, so mentioned.
- vi. It will be Contractor's responsibility to bring to the notice of Engineer-in charge any irreconcilable conflict in the contract documents before starting the work(s) or making the supply with reference which the conflict exists.
- vii. In the absence of any specifications covering any material, design of work(s) the same shall be performed/ supplied/ executed in accordance with Standard Engineering Practice as per the instructions/ directions of the Engineer-in-charge, which will be binding on the Contractor.

### **3.0 Procurement**

3.1.1 CONTRACTOR shall procure and supply all the materials other than OWNER supplied materials, required for permanent installation of pipeline and aboveground GI Installation in sequence and at appropriate time. All equipment, materials, components etc. shall be suitable for the intended service. Approved vendor list has been indicated in the bid package for various items. For items which are not covered in the vendor list, CONTRACTOR shall obtain Owner's prior approval for the vendor based on PTR document.

3.1.2 CONTRACTOR shall procure all materials, components, equipment, consumable etc. required for successful completion of the pipeline system. CONTRACTOR shall also procure and supply spares required for pre-commissioning and commissioning/start up as recommended for all items supplied by him as per specifications provided in the bid package. Where no specification is available in the contract, the same shall be prepared by the CONTRACTOR based on the piping material specification and shall be subject to Owner's approval.

3.1.3 Material take-off with complete description of size, rating, material, thickness and specifications to be prepared by contractor.

3.1.4 Only single offer shall be provided by the bidder fully complying to specifications/ drawings/ requirements for Owner's review and approval. CONTRACTOR shall provide for inspection of the items at vendor's works by the OWNER/ Owner's REPRESENTATIVE or by a reputed inspection agency and shall submit inspection reports for Owner's clearance.

3.1.5 Stores management including receipt, warehousing, preserving the material in good condition, issue of material to construction site, reconciling/ handing over surplus material to OWNER for OWNER supplied items.

3.1.6 Carry out proper documentation of inspection and quality assurance programmes for all equipment and bulk materials duly approved by OWNER. CONTRACTOR shall maintain an accurate and traceable listing of procurement records for the location, quality and character of all permanent materials in the Project.

3.1.7 CONTRACTOR shall immediately report to the OWNER of all changes which will affect material quality, and recommend any necessary corrective actions to be taken.

3.1.8 Submit periodic progress reports highlighting hold ups and slippages, if any, to OWNER and take remedial measures.

3.1.9 Interact with authorities such as Sales Tax, Octroi, Excise, Customs etc. as necessary and arrange for transportation of the materials under his scope of supply to site.

3.1.10 All purchase requisitions including purchase orders shall be approved by Owner/ Owner's Representative.

3.1.11 Compliance with vendor's and supplier's instructions and recommendations for transportation, handling, installation & commissioning.

### **3.2 Construction**

#### **3.2.1 General**

3.2.1.1 All construction works shall be carried out as per "Approved for Construction" drawings, procedures, specification and applicable codes and standards. Any changes at site shall also need prior approval from the OWNER and revision of drawings. Construction drawings will be submitted by the Contractor in a phased manner for Owner's approval in accordance with the procurement and construction plan prepared and furnished by contractor & agreed by Owner. Owner will take minimum 7 working days from the date of submission of the documents / drawings submitted by the contractor for Owner's comments / approval.

#### **3.2.1.2 Statutory Approvals**

The Owner shall provide to the Contractor the basic / in principal approval for laying the pipeline. However, the Contractor at his own initiative shall obtain all permissions, permits and licenses necessary for the performance of the work. If any such permission, permit or license required for the performance of the work by the contractor can only be granted at the request or recommendation of the Owner, the Owner shall at the request of the Contractor, provide recommendatory letters to the contractor to obtain or procure the same. The contractor shall not, however be entitled

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to any additional compensation over and above contracted rates of services for any hardship or increased cost caused by any idleness, suspension or disruption of work or any other account whatsoever as a result of the inability of the contractor to obtain the permission(s), permit(s), license(s) aforesaid to match with the progress of the work nor shall the same constitute a ground for extension of time.

a) The approval from any authority required as per statutory rules and regulations of Central/ State Government agencies etc. shall be the contractor's responsibility unless otherwise specified in the tender document. The application on behalf of the Owner for submission to relevant authorities along with copies of required certificates complete in all respects shall be prepared and submitted by the Contractor well ahead of time so that the actual construction/ commissioning of the work is not delayed for want of the approval/ inspection by concerned authorities. The Contractor shall arrange the inspection of the works by the authorities and necessary coordination and liaison work in this respect shall be the responsibility of the Contractor. However statutory fees paid, if any, for all inspections and approvals by such authorities shall be reimbursed at actual by the Owner to the Contractor on production of documentary evidence.

b) The defective work resulting from poor workmanship and/ or material supplied by contractor, as pointed out by any statutory authority shall be rectified by the contractor at no extra cost to the Owner. Any change/ addition required to be made to meet the requirements of the statutory authorities, the same shall be carried out by the contractor free of charge. The inspection and acceptance of the work by statutory authorities shall, however, not absolve the contractor from any of his responsibilities under this contract.

3.2.1.3 The Contractor shall comply with all the conditions and requirements issued by Authorities having jurisdiction in the area where the work is to be performed.

It shall be the Contractor's sole responsibility to make arrangements for land for setting up of its string fabrication yards, all storage areas for line pipe and other materials, wherever required, and all other work areas.

The Contractor shall make all arrangements for access to his work site at his own cost and responsibility. If no public road exists Contractor shall arrange on his own for access to his work area at no extra cost to the COMPANY.

The CONTRACTOR shall be responsible for claims if any arising out of damage/ obstruction to public utilities like lines of DOT etc. where the claims will cover the restoration costs as well as loss of revenue due to down time.

3.2.1.4 Providing schedules, progress reporting, organization chart at construction site, quality assurance plan and developing quality control procedures, as per requirements indicated elsewhere in the bid package.

3.2.1.5 Coordination and supervising the work of sub-contractors.

3.2.1.6 Transportation of appropriate materials and taking delivery of Company supply materials, store, worksite, intermediate storage points, maintaining and operating an adequate material control procedure at worksite.

3.2.1.7 Fabrication of all GI piping, structural components as per approved drawings.

3.2.1.8 All civil/ structural works, electrical and instrumentation, laying and commissioning works shall be performed in accordance with relevant specifications and requirements enclosed elsewhere in the bid package.

3.2.1.9 CONTRACTOR shall provide complete details of manpower, equipment etc. to be deployed. Mobilizing and providing all equipments, manpower (skilled and unskilled), consumable and other resources etc. for each spread as required for the execution of the complete job defined herein and thereafter demobilizing the same upon completion of work.

3.2.1.10 Provide, maintain and operate all temporary facilities required for the construction related works and remove after completion of work. Providing barricading at trench in city area as per instruction of engineer in charge for safety.

3.2.1.11 Hook up / tie-in of pipeline and piping system with other facilities etc.

3.2.1.12 All works related to cleaning, testing, dewatering, swabbing, drying, pre-commissioning and commissioning of the work tendered.

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3.2.1.13 Idle time preservation of pipeline, if required.

3.2.1.14 All incidental and associated works and any other works not specifically listed therein but are required to be carried out to complete entire work related to pipelines and terminals.

### **3.2.2 Branch / service Pipeline**

#### **3.2.2.1 Familiarization of Pipeline Route**

Bidders are advised to make site visits to familiarize themselves with all the salient features of available infrastructure along the proposed pipeline in concerned GA area (cities). Contractor shall be deemed to have considered all constraints and eventualities on account of site conditions while formulating his bid. Contractor shall not be eligible for any compensation in terms of cost and / or time, on account of site conditions varying to any extent from whatever described in the Bid Package.

3.2.2.2 The city condition field / other fields may have lots of PVC, PE & utility pipelines or other pipelines & cables being used for city utility / other utilities purposes. CONTRACTOR shall ensure that these lines shall not be damaged/ cut affecting the water / power / communication / other supply to concerned Users / Owners / Authorities. Wherever required, temporary necessary precautions have to be maintained for uninterrupted supply.

3.2.2.3 Supply, loading, unloading, handling, stacking, storing and transportation to workshop/ work site of all materials that may be used for the construction of pipeline system at their designated stack yard/ dump site/ store and/ or by CONTRACTOR as the case may be.

3.2.2.4 Stacking, clearing, grading as required, trenching to all depths in all types of soil including soft & hard rock by chiseling or otherwise cutting etc. to a width to accommodate the PE pipeline as per relevant standards, drawings, specification etc. transportation of PE pipes along the route, stringing, aligning, bending, jointing including testing, inspection, field jointing including supply of all materials as per specifications, laying and lowering of the pipeline, back filling, Supply and installation of pipeline as shown in approved drawings and as directed by OWNER, installation of supports wherever required, supply of select backfill material as required, clean- up, flushing, pneumatic testing, nitrogen purging / pre-commissioning and commissioning of complete pipeline system, including all associated works as per relevant specifications, standards and approved drawings.

3.2.2.5 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 pipe shall be minimum 150 mm and bottom of pipe shall be minimum 150 mm or as per drawing enclosed whichever is more.

3.2.2.6 Installation of all inline / online instruments / valves / fittings / transition fittings / appurtenances etc. as per requirements of approved drawings.

#### **3.2.2.7 Testing & Purging**

##### **A) Testing**

Pressure testing will be carried out with compressed air. Compressed air will be provided by Contractor for testing purposes and is to be included in the rates. 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 Engineer-in-Charge. 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. For service lines in some cases testing will be carried out for the test duration of 4 hrs. The service testing in this case will be performed after the service installation is complete but before the service tee has been tapped. Also in some cases the tapping of the service tee will be delayed pending the completion and purging of the main pipelines.

##### **B) Purging**

Purging shall be carried out in accordance with the principles defined in the American Gas Association publication 'Purging Principles and Practice'. Nitrogen required for purging will also be provided by the Contractor. Nitrogen shall be supplied in labelled, tested and certified cylinders, and completed with all necessary regulators, hoses and connections, which will be in good condition and working order.

In addition the Contractor shall submit and get approved a Purging Plan 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 work.

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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. A purge stack with flame trap shall be used when purging services. Care shall be taken to ensure that the purge outlet is so located that vent gas cannot drift into buildings.

#### **3.2.2.8 Markers**

Installation of all types of markers including all associated civil works. Any other work not specifically mentioned above but required for making the entire pipeline system ready for operation.

#### **3.2.2.9 Priorities**

The Contractor shall start the execution work as per approved execution methodology / plan / procedure to complete the scope of work and shall deploy adequate manpower, machinery, tools & tackles etc. accordingly. However, Owner may, at its sole option, assign priority of construction to any part/ segment of the work. Contractor shall comply with such priority of execution and their deployment without any time and cost implication to the Owner.

#### **3.2.2.10 Pre-commissioning and Commissioning Assistance**

- Pre-commissioning including supply of all materials, consumables and manpower of the complete pipeline system
- Making the entire system ready for commissioning and providing assistance during the complete duration of commissioning operations.
- Completion of all pipeline activities as detailed in SOR.

#### **3.2.2.11 Civil Works**

- Civil works shall be carried out as per scope mentioned at SOR and as per Indian Standard norms.
- Any other work not specifically listed herein but required for the completion of the work.

#### **3.2.2.12 Installation of welded Riser and Lateral Pipes in High Rise Building for PNG connection**

- Erection, Fabrication, Socket Welding of GI Pipes (heavy duty, as per IS-1239 Part-I duly Zinc coated in accordance with IS 4736) & wrought steel fittings (forged fittings, conforming to IS-1239 Part-II). The threading of GI pipe shall be NPT and conforming to ANSI B120.1
- Erection, Fabrication, Socket Welding, Testing & Installation of welded GI Pipes & Fittings etc., including NPT threading as per technical specification and sketch attached.
- Preparation and approval of sketches, schedules, execution procedures & WPS as per technical specification. All consumables e.g. electrodes, flux etc. for welding pipes and fittings are under contractor's scope.
- Supply & fixing of MS angle clamps, Ceiling clamps & dowel plugs with screws, grout material, suitable thread sealant i.e. Teflon Tape / lock tight, Supply and fixing of studs & bolts of various sizes ranging from 1/2" to 2" and 3/4" to 2", Jointing of transition fittings to above ground GI pipes, purging, testing and commissioning of the complete installation.
- Welding of Riser is to be carried out in line with duly approved PQR / WPS.
- 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.
- The entire riser assembly shall be fabricated with socket welds both for threaded riser assembly and plain ended pipes. Threaded joints are permitted after first isolation valve on laterals where riser is not approachable from balcony and in case if riser is in approach of balcony within 300 mm gap from balcony laterals may be threaded with tee of welded riser on account of workability and future maintenance considerations
- 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. Alternatively plain ended pipes and fitting can also be used for welding in welded riser.
- Risers and laterals must be designed to run through the optimal possible route, taking into consideration potential meter positions, design regulations and access for future maintenance. A riser must not be constructed so that the laterals face directly into the wall from the riser.
- 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

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electrical insulation tape for protection against electrical short circuiting.

- 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. All riser and lateral pipe shall be clamped to the building at intervals not exceeding 1.5 mtrs. Maximum distance between clamps shall be 1.0 - 1.5 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 centre 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.
- Only pretested riser shall be erected using pulley. Pretesting shall be done with compressed air as per latest standard.
- Supply and Installation of lateral GI pipes of 1/2" to 2" dia. from welded riser tapping TEE (Isolation Valve) to customer's kitchen appliances including NPT threading of GI pipes, supply of proper seal outs for threads to join fittings such as elbows, tees, connectors, regulators (free issue), meters (free issue), appliance & isolation valves etc., as per approved procedures and specification including clamping and sealing etc.
- The lateral extending from the riser at right- angles must extend a minimum of 400 mm from the riser before passing through a wall. Where the 400 mm length cannot be achieved, a flexible fitting such as stainless steel hose (anaconda) shall be fitted.
- **For the laterals beyond eighth floor, flexible Anaconda shall be used in compliance to the material specification of SS316, fittings shall be used with brass connections conforming to IS 319, in order to account for the temperature induced stresses.**
- Where pipe passes through the balcony and the surface is slightly elevated around the service pipe or it's surrounding, sleeves to be provided to prevent the accumulation of water at that point.
- 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.
- Risers and laterals shall be Leak tested with compressed air @ 2 bar (g) for minimum 2 hrs after vertical installation.
- The joints/ fittings of the GI installation shall be painted only after carrying out testing of the installation
- Making temporary but stable platforms/scaffolding/rope ladder etc., required for installation of pipes/fittings at all heights/multi storied flats and locations. Any other material & activities not mentioned/covered above, but otherwise required for satisfactory completion/safety of work as defined in tender has to be supplied / done by contractor within specified schedule at no extra cost to Owner.

### 3.2.2.13 GIS

**Refer to ANNEXURE 13 for the detailed scope of GIS.**

The Contractor shall ensure that GIS data for all MDPE pipes laid is uploaded. Payment for MDPE pipe laying shall be released only upon successful completion of GIS data updation.

## **4.0 SCOPE OF SUPPLY**

### **4.1 Owner's Scope of Supply (Free Issue Item)**

Owner's scope of supply includes all DRS / MRS, MDPE Pipe, GI Pipe (Qty. as per SOR), Meters & Regulators only as required. In addition to above, In order to speed up the project other Materials if available with Owner shall be issued on replacement basis to the Contractor from the designated store(s) of BGCL Ltd. Contractor shall be responsible for lifting the free issue materials from Owner's storage point(s) and transporting the same to work site(s) at his own cost.

### **4.2 Material to be supplied by Contractor**

The procurement and supply, in sequence and at the appropriate time, of all materials and consumables required for completion of the work as defined in this Bid document except the materials specifically listed above, shall be entirely the CONTRACTOR'S responsibility and item rates quoted for the execution of the CONTRACT shall be inclusive of supply of all these materials. The material to be supplied by the Contractor shall be as per specification and preferred make as indicated in Appendix- I and material test certificate is duly approved / recommended by Approved TPIA. The materials will be, but not by way of limitations, as follows:

All materials except what is under Owner's scope of supply as mentioned in Clause No. 4.1 above, and required for successful completion of works in all respects shall be supplied by the Contractor and the cost of such supply shall be deemed to have been included in the quoted price without any additional liability on the part of Owner.

The following materials to be supplied by the contractor as required for completing the work. However other

additional/ Supplementary materials required for execution of the project is to be supplied by the contractor.

**Material under Contractor's Scope of Supply**

**A) HDPE Casing Pipes PE 63/80, PN 6**

- i) HDPE Ducting Pipes of various sizes

**B) Coupler / bends / elbows as required**

- For 20 to 180 mm (PE)

**C) End Caps**

- i) Ends caps 20 to 180 mm (PE)

**D) Equal Tee**

- i) Equal Tee 20 to 180 mm OD (PE)

**E) Saddle Tapping Tee**

- i) Saddle Tapping Tee 32x20 (PE)
- ii) Saddle Tapping Tee 63x20 (PE)
- iii) Saddle tapping Tee 63x32 (PE)
- iv) Saddle tapping Tee 90x20 (PE)
- v) Saddle Tapping Tee 90x32 (PE)
- vi) Saddle Tapping Tee 125x63 (PE)
- vii) Saddle Tapping Tee 125x90 (PE)
- viii) Saddle Tapping Tee 125x63 (PE)

**F) Reducers**

- i) Reducers 32x20 (PE)
- ii) Reducers 63x32(PE)
- iii) Reducers 90x63 (PE)
- iv) Reducers 125x63 (PE)
- v) Reducers 125x90 (PE)

**G) Transition Fitting**

- i) PE to G.I. (20 mm to 1/2")-01(Imp)
- ii) PE to G.I. (32 mm to 1")

**H) Warning mat**

Warning Mat 300mm Wide-1mm Thick

**I) GI Fittings**

- i) Elbows F End (1/2") (GI)
- ii) Elbows F End (3/4") (GI)
- iii) Elbows F End (1") (GI)
- iv) Elbows F End (1 1/2") (GI)
- v) M & F Elbows End (1/2") (GI)
- vi) M & F Elbows End (3/4") (GI)
- vii) M & F Elbows End (1") (GI)
- viii) M & F Elbows End (1 1/2") (GI)
- ix) Equal Tee (1/2") (GI)
- x) Equal Tee (3/4") (GI)
- xi) Equal Tee (1") (GI)
- xii) Equal Tee (1 1/2") (GI)
- xiii) Union (1/2") (GI)

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- xiv) Union (3/4") (GI)
- xv) Union (1") (GI)
- xvi) Union (1 1/2") (GI)
- xvii) Sockets (1/2") (GI)
- xviii) Sockets (3/4") (GI)
- xix) Sockets (1") (GI)
- xx) Sockets (1 1/2") (GI)
- xxi) Reduced Elbows (3/4" x 1/2") (GI)
- xxii) Reduced Elbows (1" x 3/4") (GI)
- xxiii) Reduced Elbows (1 1/2" x 3/4") (GI)
- xxiv) Reduced Elbows (1 1/2" x 1") (GI)
- xxv) Reduced Elbows (2" x 1 1/2") (GI)
- xxvi) Hex Nipple Size (1/2" x 2") Long (GI)
- xxvii) Hex Nipple Size (1/2" x 3") Long (GI)
- xxviii) Hex Nipple Size (3/4" x 2") Long (GI)
- xxix) Hex Nipple Size (1" x 2") Long (GI)
- xxx) Hex Nipple Size (1 1/2" x 2") long (GI)
- xxxii) Reduced Sockets (3/4" x 1/2") long (GI)
- xxxiii) Reduced Sockets (1" x 3/4") (GI)
- xxxiv) Reduced Sockets (1 1/2" x 3/4") (GI)
- xxxv) Reduced sockets (1 1/2" x 1") (GI)
- xxxvi) Reduced sockets (2" x 1 1/2") (GI)
- xxxvii) GI Plugs 3/4", 1"

**J) GI PIPEs like**

- i) 1/2" all floor (including connectivity from TF to regulator)
- ii) 3/4" all floor (including installation of riser)
- iii) 1" dia all floor (for riser installation)

**K) COPPER TUBES**

- i) 12.0 OD X 0.6 mm wall thickness

**L) ISOLATION VALVES**

- i) 1/2"
- ii) 3/4"
- iii) 1"

**M) APPLIANCE VALVES**

- i) 1/2"

**Anaconda (flexible hoses) before meter if required.**

**Steel reinforced rubber hose (before burner) if required**

**Any other fittings not specified above but required for GI, Cu and PE lines is to be provided by the contractor.**

**Notes:-**

i. All the supply items shall be procured from the vendors / manufacturers listed in tender documents.

ii. For any other item(s) for which the vendor list is not provided, bidders can supply those item(s) from vendors/ suppliers who have earlier supplied same item(s) for the intended services in earlier projects and the item(s) offered is in their regular manufacturing/ supply range. The bidder is required to submit documentary evidences (PO copies, Inspection Certificate etc.) before procurement / Placement of Order for approval to Owner / PMC.

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iii. For supply items the contractor has to **submit only Material test certificate** and other relevant documents from the approved / listed manufacturer for review of Owner / PMC.

iv. In case, Contractor proposes a vendor other than those as per the suggested vendor list, Contractor is required to submit documentary evidences such as PO copies, Inspection Certificate and any other information etc (such as reasons for proposing the change of vendor) before procurement / Placement of order for approval to Owner / PMC.

v. Owner / PMC reserve the right to accept material on MTC basis from listed / approved vendors for procurement of supply items by the contractor.

### **5.0 DOCUMENTS, SPECIFICATION, STANDARDS AND DRAWINGS**

5.1 Owner shall furnish tender purpose drawings as listed in content of Volume-II of II of the tender document and other typical standard drawings attached with respective technical specifications enclosed with Volume-II of II of the tender document. Contractor shall prepare detail engineering drawing, bill of materials and all construction drawings and submit to Consultant for approval prior to start of the job / any procurement.

5.2 Contractor shall prepare isometric drawings, any specific detail drawings (if required by Engineer-in-charge) & bill of materials and submit the same for Owner/ Consultant's approval / record. Contractor shall prepare drawing for utilities line as required or as per SOR and submit the same for Owner/ Consultant's approval/ record.

5.3 No construction small or big shall be carried out without proper construction / standard drawings duly approved by Owner's Engineers at Delhi or site office or Owner's representative duly authorized to do so.

5.4 After completion of construction & commissioning of pipeline system, Contractor shall incorporate all the correction in drawings, prepare and issue the drawings "as built drawings" as listed below to Owner as final submission of drawings. For pipeline alignment sheet, all block valves location & details, pipe book etc. and for tap-off point & consumers premises, piping GAD, Isometric and all civil drawings including hook-up arrangement with Meter Regulator. For final submission only 4 sets of documents shall be handed over by Contractor. Any construction done by Contractor without duly approved drawings shall be wholly at his risk and cost. Contractor shall also submit soft copy of pipe book in excel alongwith hard copy. Soft copy of all as built drawings shall be also submitted in AutoCAD.

#### **5.5 Specifications**

The work shall be carried out by CONTRACTOR strictly in accordance with the following specifications enclosed in Volume-II of II of this document:

- 1) Laying of Underground PE Pipeline
- 2) Installation of Aboveground GI Piping for Domestic Consumers
- 3) PE Pipes
- 4) GI Pipe
- 5) GI Fittings
- 6) HDPE Pipes
- 7) Cu Pipes
- 8) Cu fitting
- 9) Warning mats
- 10) MDPE Fittings and Electro-fusion
- 11) Brass Fitting
- 12) Flexible Hose (anaconda)
- 13) Flux
- 14) Isolation valve & Appliance Valve
- 15) Health safety and environment
- 16) Quality Assurance
- 17) Steel reinforced rubber hose

18) PE isolation valves

### 5.6 Drawings

The drawings to the extent available are included in Vol.-II of the bid package for BIDDER's reference purpose only; Bidders are advised to go through these drawings and also visit the site before submitting their bids. The Contractor shall develop all drawings including for all crossings, along with the all connection drawings required for construction works as detailed in respective SCC, PJS & SOR etc.

## **6.0 RESOURCES / FACILITIES**

### 6.1 Recruitment of Personnel by Contractor

The Contractor shall not recruit personnel of any category from among those who are already employed by the other agencies working at the sites but shall make maximum use of local labour available.

### 6.2 Construction Water and Power Supply

No water and power will be provided by the Owner. It should be the responsibilities of the contractor to arrange water and power at his own cost.

### 6.3 Land for Residential Accommodation

Owner shall not provide any land for residential accommodation of contractor's staff and labour.

## **7.0 PROJECT SCHEDULING & MONITORING**

The following schedules/documents/reports shall be prepared and submitted by the Bidder/Contractor for review/approval at various stages of the contract.

### 7.1 Along with Bid

#### a) Time Schedule

The Completion Time Schedule for the work (including mobilization period) as per SCC Annexure- 3 of **Tender in all respect, from the date of issue of telex/telegram/letter/Fax of Intent.**

The Bidder is required to submit a Project Time Schedule in Bar Chart Form, alongwith the Bid. The Schedule shall cover all aspects like sub-ordering, manufacturing and delivery, indicated in the Bid Document. The Owner interface activities shall be clearly identified with their latest required dates.

Owner reserves the right to disqualify the Bidder if the above Schedule submitted by the Bidder is not in line with the over all Project requirement.

#### b) Scheduling & Monitoring System

The Bidders should describe their system of Project Scheduling and monitoring, the extent of computerization, level of detailing, tracing methodology etc. with the name of computer package and sample outputs.

### 7.2 After the Award of Contract

#### a) Overall Project Schedule

The Contractor shall submit within 1 week of Fax of Intent, a sufficiently detailed over all Project Schedule in the activity network form, clearly indicating the major milestones, interrelationship/ interdependence between various activities together with analysis of critical path and floats. The network will be reviewed and approved by Engineer-in-Charge and the comments if any shall be incorporated in the network before issuing the same for implementation. The network thus finalized shall form part of the contract document and the same shall not be revised without the prior permission from Engineer-in- Charge during the entire period of contract.

#### b) Progress Measurement Methodology

The contractor is required to submit within 1 week of award of WORK, the methodology of progress measurement of sub-ordering, manufacturing/ delivery, sub- contracting construction and commissioning works and the basis of computation of overall services/physical progress informed. Owner reserves the right to modify the methodology in part or in full.

b) Functional Schedules

The contractor should prepare detailed functional schedules in line with network for functional monitoring and control and submit scheduled progress covers for each function viz. ordering, delivery and construction.

**7.3 Project Review Meetings**

The Contractor shall present the programme and status at various review meetings as required.

a) Weekly Review Meeting

Level of Participation: Contractor's/Consultant's RCM/ Site In charge & Job Engineers.

Agenda: a) Weekly programme v/s actual achieved in the past week & programme for next week.

b) Remedial Actions and hold up analysis.

c) Client query/ approval.

Venue: Site Office

b) Monthly Review Meeting

Level of Participation: Senior Officers of BGCL Ltd. / PMC and Contractor.

Agenda: a) Progress Status/ Statistics

b) Completion Outlook

c) Major hold ups/slippages

d) Assistance required

e) Critical issues

f) Client query / approval

Venue: BGCL Ltd. /PMC Office/ Site at the discretion of Owner/ PMC

**7.4 Progress Reporting Performa**

A) Monthly Progress Report

This report shall be submitted on a monthly basis within 10 (ten) calendar days from cut-off date, as agreed upon covering overall scenarios of the work. The report shall include, but not limited to the following:

a) Brief Introduction of the work.

b) Activities executed / achievements during the month.

c) Schedule versus actual percentage progress and progress curves for Detail Engg. Sub-ordering, Manufacturing / Delivery, Subcontracting, Construction, Commissioning and Overall and quantum wise status & purchase orders against schedule.

d) Area of concern/ problem/ hold-ups, impacts and action plans.

e) Resources deployment status.

f) Annexures giving status summary for drawings, MRs deliveries, sub-contracting and construction.

g) Procurement status for items to be supplied by Contractor.

B) Weekly Reports

The report will be prepared and submitted by the Contractor on weekly basis and will cover following items:

a) Activities programmed and completed during the week.

b) Resource deployed men and machines.

c) Quantities achieved against target in construction

d) Record of Man-days lost.

e) Construction percentage progress schedule and actual.

C) Daily Repots

a) Activity programme for the day

b) Progress of the previous day and commutative progress.

c) Manpower & machinery deployed

## 7.5 Progress Reports

7.5.1 CONTRACTOR shall make every effort to keep the OWNER adequately informed as to the progress of the WORK throughout the CONTRACT period. CONTRACTOR shall keep the OWNER informed well in advance of the construction schedule so as to permit the OWNER to arrange for requisite inspection to be carried out in such a manner as to minimize interference with progress of WORK. It is imperative that close coordination be maintained with the OWNER during all phases of WORK.

7.5.2 By the 10th (tenth) of each month, CONTRACTOR shall furnish the OWNER a detailed report covering the progress as of the last day of the previous month. These reports will indicate actual and scheduled percentage of completion of construction as well as general comments of interest or the progress of various phases of the WORK. The frequency of progress reporting by the CONTRACTOR shall be weekly.

7.5.3 Once a week, CONTRACTOR shall submit a summary of the WORK accomplished during the preceding week in form of percentage completion of the various phases of the WORK, to the OWNER.

7.5.4 Progress reports shall be supplied by CONTRACTOR with documents such as chart, networks, photographs, test certificate etc. Such progress reports shall be in the form and size as may be required by the OWNER and shall be submitted in at least 3 (three) copies.

7.5.5 Contractor shall prepare Daily Progress Report (DPR) in the desired format and submit it to Engineer-in-charge along with schedule of next day to Engineer-in-charge.

## **8.0 CONSTRUCTION**

OWNER reserves the right to inspect all phases of CONTRACTOR's operations to ensure conformity to the SPECIFICATIONS. Owner will have Engineers, Inspectors or other duly authorized representatives, made known to the CONTRACTOR present during progress of the WORK and such representatives shall have free access to the WORK at all times. The presence or absence of OWNER's representative does not relieve the CONTRACTOR of the responsibility for quality control in all phases of the WORK. In the event that any of the WORK being done by the CONTRACTOR or any SUB-CONTRACTOR is found by OWNER's representatives to be unsatisfactory or not in accordance with the DRAWINGS, procedures and SPECIFICATIONS, the CONTRACTOR shall, upon verbal notice of such, revise the work in a manner to conform to the relevant DRAWINGS, procedures and SPECIFICATIONS.

### **8.1 Rules & Regulations**

CONTRACTOR shall observe in addition to Codes specified in respective specification, all National and Local Laws, Ordinances, Rules and Regulations and requirements pertaining to the WORK and shall be responsible for extra costs arising from violations of the same.

### **8.2 Procedures**

Various procedures and method statements to be adopted by CONTRACTOR during the construction as required in the respective specifications shall be submitted to OWNER in due time for APPROVAL. No such construction activity shall commence unless approved by OWNER in writing.

### **8.3 Field Inspection**

CONTRACTOR shall have at all times during the performance of the WORK, a Competent Superintendent on the premises. Any instruction given to such superintendent shall be construed as having been given to the CONTRACTOR.

#### **8.4 Erection and Installation**

The CONTRACTOR shall carry out required supervision and inspection as per quality assurance plan and furnish all assistance required by the OWNER in carrying out inspection work during this phase. The OWNER will have engineers, inspectors or other authorized representatives present who are to have free access to the WORK at all times. If an OWNER's representative notifies the CONTRACTOR's authorized representative not lower than a Foreman of any deficiency, or recommends action regarding compliance with the SPECIFICATIONS, the CONTRACTOR shall make every effort to carry out such instructions to complete the WORK conforming to the SPECIFICATIONS and approved

DRAWINGS in the fullest degree consistent with best industry practice.

#### **8.5 Construction Aids, Equipment, Tools & Tackles**

CONTRACTOR shall be solely responsible for making available for executing the work, all requisite Construction Equipments, Special Aids and Tools, Tackles and testing equipments and appliances. Such construction equipments etc. shall be subject to examination by Owner and approval for the same being in first class operating condition. Any discrepancies pointed out by OWNER shall be immediately got rectified, repaired or the equipment replaced altogether, by CONTRACTOR. OWNER shall not in any way be responsible for providing any such equipment, machinery, tools and tackles. The OWNER reserves the right to rearrange such deployment depending upon the progress and priority of work in various sections. Tie-end between main line and starting point of terminal is included in the scope of contract, as and when main line section is available for Tie-ins.

### **9.0 DOCUMENTATION**

#### **9.1 "As Built" Drawings**

The Contractor will be required to submit computerized as-built drawings duly certified by EIC in A1/ A2 sheet form at 1:200 scale with one set for BGCL site office in original hard copy and one set hard copy for BGCL, plus soft copy. The as-built drawing shall be submitted on area wise as specified. The bill of materials used for the particular area shall be specified on the drawings.

#### **9.2 Completion Document – PE & GI**

The following documents shall be submitted in hard binder by the BIDDER in one set for BGCL site office in original and one set for BGCL, as a part of completion documents: -

- a) Copies of the Inspection reports, Laying Graphs, HDD Profiles (if required) and valve pit drawings (if required).
- b) Pre testing, final Hydrostatic / pneumatic and other Test results and reports.
- c) Consumption statements of PE / GI certified by Owner's Site Engineer.
- d) Material Reconciliation, stores issue & return statements
- e) All other requirements as specified in the respective specifications.
- f) Completion Certificate issued by Owner's Site Engineer.
- g) No claim certificate by the BIDDER.
- h) Completion certificate for embedded and covered up works wherever applicable.
- i) Recovery statement, if any.
- j) Deviation statement.
- k) Statement for reconciliation of all the payments and recoveries made in the progress bills.
- l) Copies of deviation statement and order of extension of time, if granted.
- m) Any other contractual documents required on completion.
- n) Total list of houses in the area allotted to him giving details of connections provided & reasons where connection could not be given / completed.
- o) The details recorded in measurement cards of every domestic house.
- p) Details of houses where extra piping done along with materials used.
- q) Total material consumption report.

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- r) Material reconciliation with respect to the materials issued.
- s) Test reports & test certificates of gauges etc.
- t) Any other documents / records required.

### **10.0 SURVEY AND LEVEL / SETTING OUT WORK**

10.1 Before the WORK or any part thereof are begun, the CONTRACTOR's agent and the Engineer-in-Charge's representative shall together survey and take levels of the SITE and decide all particulars on which the survey is to be made, and on which measurements of the WORK are to be based. Such particulars shall be plotted by the CONTRACTOR and after agreement the drawings shall be signed by the Engineer-in-Charge.

10.2 The CONTRACTOR shall be entirely responsible for the horizontal and vertical alignment, the level and correctness of every part of the WORK and shall rectify any errors or imperfections therein. Such rectifications shall be carried out by the CONTRACTOR at his own cost, when instructions are issued to this effect by the Engineer-in-Charge or his representative.

10.3 The Engineer-in-Charge shall furnish the relevant existing grid point with Bench Mark on the land. It shall be CONTRACTOR's responsibility to set out the necessary control points in and to set out the alignment of the various works. The CONTRACTOR shall have to employ efficient survey team for this purpose and the accuracy of such setting out work shall be CONTRACTOR's responsibility.

10.4 The CONTRACTOR shall give the Engineer-in-Charge not less than 24 (twenty four) hours notice in writing of his intention to set out or give levels for any part of the WORK so that arrangements may be made checking the same.

10.5 WORK shall be suspended for such times as necessary for checking lines and levels on any part of the WORK.

10.6 The CONTRACTOR shall at his own expense provide all assistance, which the Engineer-in-Charge may require for checking the setting out of WORKS.

10.7 Before commencement of any activity, contractor's quality control set up duly approved by company must be available at site.

### **11.0 ORDER OF WORKS / PERMISSIONS / RIGHT OF ENTRY / CARE OF EXISTING SERVICES.**

11.1 The order in which the WORK shall be carried out shall be subject to the approval of the Engineer-in-charge and shall be so as to suit the detailed method of construction adopted by the CONTRACTOR, as well as the agreed joint programme. The WORK shall be carried out in a manner so as to enable the other contractors, if any, to work concurrently. OWNER reserves right to fix up priorities which will be conveyed by Engineer-in-Charge and the CONTRACTOR shall plan and execute work accordingly.

#### **11.2 Existing Service**

11.2.1 Drains, pipes, cables, overhead wires and similar services encountered in course of the works shall be guarded from injury by the CONTRACTOR at his own cost, so that they may continue in full and uninterrupted use to the satisfaction of the Owners thereof, or otherwise occupy any part of the SITE in a manner likely to hinder the operation of such services.

11.2.2 Should any damage be done by the CONTRACTOR to any mains, pipes, cables or lines (whether above or below ground etc), whether or not shown on the drawings the CONTRACTOR must make good or bear the cost of making good the same without delay to the satisfaction of the Engineer-in-Charge.

## **12.0 MAKE OF MATERIAL / BOUGHT OUT ITEMS**

Approved vendors for various major items are enclosed as Appendix-I to Particular Job Specification with this tender document. The bidder shall consider such names only as indicated in the aforesaid list and clearly indicate in the bid the name(s) as selected against these items. For any other item not covered in the list enclosed with this tender document, prior approval shall be obtained by the contractor for its make/ supplier's name.

## **13.0 INSPECTION OF SUPPLY ITEMS**

All inspections and tests shall be made as required by the specifications forming part of this contract. Contractor shall advise Owner/ Consultant in writing at least 10 days in advance of the date of final inspection/tests. Manufactures inspection or testing certificates for equipment and materials supplied, may be considered for acceptance at the discretion of Owner/ Consultant. All costs towards testing etc. shall be borne by the contractor within their quoted rates. All inspection of various items shall be carried out based on Quality Assurance Plan, which will be submitted by the Contractor and duly approved by Owner/ Consultant.

## **14.0 ESCALATION**

The Unit Rates quoted shall be kept firm till completion of work and no price Escalation shall be paid.

## **15.0 DOCUMENTS TO BE SUBMITTED / PRODUCED ALONGWITH R.A. BILLS**

Refer 'the checklist- F-26' for details of the documents to be submitted. Checklist duly signed will become part of RA bill.

## **16.0 INSURANCE FOR FREE ISSUE MATERIAL**

### **Insurance for Free Issue Material**

Contractor shall at his own expense arrange, secure and maintain insurance cover for Owner's supplied free issue materials as defined in Tender Document of adequate value as intimated by Owner / consultant. Contractor's quoted price shall be inclusive of all costs on account of insurance liabilities covered under the Contract. Contractor to note that the beneficiary of insurance cover shall be Bengal Gas Company Ltd.

### **16.2. Insurances in India**

16.2.1 Contractor shall at his own expense arrange, secure and maintain insurance with Indian insurance companies to the satisfaction of the Owner as may be necessary and to its full value for all such amounts to protect the works in progress from time to time and the interest of Owner against all risks as detailed herein. The form and the limit of such insurance as defined herein together with the under writer works thereof in each case should be as acceptable to the Owner. However, irrespective of work acceptance the responsibility to maintain adequate insurance coverage at all times during the period of Contract shall be that of Contractor alone. Contractor's failure in this regard shall not relieve him of any of this responsibilities and obligations under Contractor.

16.2.2 Any loss of damage to the equipment during inland transportation, storage, erection and commissioning till such time the Work is taken over by Owner shall be to the account of Contractor. Contractor shall be responsible for preferring of all claims and make good for the damage or loss by way of repairs and/ or replacement of the parts of the Work damaged or lost. Contractor shall provide the Owner with a copy of all insurance policies and documents shall be submitted to the Owner immediately upon the Contractor having taken such insurance coverage. Contractor shall also inform the Owner regarding the expiry cancellation and/ or changes in any of such documents and ensure revalidation/ renewal etc., as may be necessary well in time.

16.2.3 The risks that are to be covered under the insurance shall include, but not be limited to the loss or damage in handling, transit, theft, pilferage, riot, civil commotion, weather conditions, accidents of all kinds, fire, war risk etc. The scope of such insurance shall cover the entire value of supplies of equipments, plants and materials.

16.2.4 All cost on account of insurance liabilities covered under this Contract will be to Contractor's account and will be included in Contract Price. However, the Owner may from time to time, during the currency of the Contract, ask the Contractor in writing to limit the insurance coverage risk and in such a case, the parties to the Contract will agree for a mutual settlement, for reduction in Value of Contract to the extent of reduced premium amounts. Contractor as far as possible shall cover insurance with Indian Insurance Companies.

### **17.0 SPECIAL POINTS PERTAINING TO SPECIFICATION:-**

**The technical specification & safety standards as prescribed in PNGRB is to be followed further**

The minimum pipeline cover shall be kept as follows:

#### Pipeline Burial Requirement

The entire pipeline shall be buried and provided with a minimum cover as given in

Table below:

<b>Pipeline Burial Requirements</b>	
<b>Location</b>	<b>Min. Cover (m)</b>
a) minor water crossing (below firm bed level)	1.5
b) Cased/ Uncased Road/ cart track crossings	1.2
c) Drainage, ditches at roads crossings	1.0
d) Residential and other locations including rocky areas	1.0

Note:

i) The depth of cover shall be measured from the top of the pipe to the top of the undisturbed surface of soil or the top of graded working strip, whichever is lower. The fill material in the working strip shall not be considered in the depth of cover.

ii) The cover shall be measured from the top of road or top of rail, as the case may be.

iii) For water courses that are prone to scour and erosion, adequate safe cover as mentioned above or as advised by concerned authorities (whichever is stringent) shall be provided below the predicted scour profile expected during the life time of the pipeline.

iv) When scour level is not known, an additional cover of at least 1 m or as advised by concerned authorities shall be provided from the existing firm bed of the river / water course except in case of rocky river bed.

v) Minimum cover mentioned above against Sl. no. a), b), c), d) & e) category may be increased based on the statutory requirements from concerned authorities and requirement shall be final and binding to the contractor.

vi) Soft soil / sand padding of minimum 150 mm thickness or as mentioned in standard drawing ( whichever is stringent ) to be provided around the pipeline where gravel / hard soil or rocky area **if** encountered.

- Piping at consumer ends, connection at existing tap-off location and for future connections alongwith bill of materials.

Contractor shall develop General Arrangement Drawings (GADs) good for construction for size 20 to 180 mm and locations based on typical sketches/ drawings alongwith bill of materials and submit to Owner for reviews/ approval. Construction work shall be carried out based on construction drawings duly approved by Owner/ Consultant.

- The detailed engineering for above ground installation shall include detail engineering pertaining to all disciplines (if required) along with bill of materials.

- All the documents/ drawings prepared by the Contractor shall be submitted to Owner/ Engineer-in-charge for review and approval. All works shall be executed based on the approved drawings/ documents only.

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- Contractor shall obtain all clearance from Government authorities (if required). However bank guarantee/ required fee or charges shall be submitted by Owner.

17a. If any ambiguity arises between SCC (Tech.) & Particular Job Specification in that case later shall govern. However in some cases, decision of Engineer-in-charge shall be final and binding to the contractor.

**17b Following points shall be taken care by the contractor before during execution works.**

- i) Contractor shall be responsible for taking necessary precautions regarding traffic (installation of notice / warning boards).
- ii) Contractor shall be totally responsible for the occurrence of any accident during excavation of road and shall be liable for damages / expenses due to the same.
- iii) Concerned authority / Owner shall not be responsible for any loss / damage.
- iv) One copy of the permission shall be made available with contractor's responsible workman (if required) at the place where excavation is undertaken.
- v) While executing the subject work, excavation shall be done in consultation with the concerned authority engineer of that area.
- vi) Necessary safety measures shall be taken for the gas pipeline, since high tension lines and other services carriers are running alongwith in gas pipeline route in the area.

**18.0 SPECIAL NOTES PERTAINING TO SCHEDULE OF RATES (SOR)**

- i) All SOR item rates are declared.
- ii) The quantities given above against individual items are indicative and shall not be considered to be binding. The quantities may be increased, decreased or deleted at site at the time of actual execution and as per discretion of Owner/ Engineer-incharge. The unit rate shall be operated to work out the final payment due to Contractor.
- iii) The payment will be made as per actual certified measurement at site.
- iv) The scope as mentioned in the SOR is of indicative nature only and shall include all activities as detailed in the relevant clauses of the respective Particular Job Specifications, Technical Specifications, Data Sheets & drawings, etc.
- v) Installation of PE Pipes of size 20 -90 mm is to be laid underground considering for domestic consumers as required in respective city.
- vi) Restoration works of pipeline trench made by open cut method are included in Contractor's scope as indicate in SOR. Owner's / Engineer-in-Charge's decision in this regard shall be final and binding to the contractor.

**19.0 APPENDIX-I TO PARTICULAR JOB SPECIFICATION**

**LIST OF APPROVED SUPPLIER FOR BOUGHT OUT ITEMS**

**PE FITTINGS & PE VALVES**

- 1) M/s Friatech AG, Germany (represented by M/s Sherman Sales in India)
- 2) M/s Jain Irrigation Systems Ltd. Jalgaon (Fusion, UK)
- 3) M/s George Fisher
- 4) M/s Plasson Ltd.
- 5) M/s Agru, Australia
- 6) M/s Kimplas, Nasik (PE Fittings only)
- 7) M/s Innogaz & M/s Frialen of M/s Aliaxis Utilities & Industry Pvt. Ltd.  
(formerly Glynwed pipe systems)

**HDPE PIPES & DUCT**

- 1) M/s Climax Synthetics (P) Ltd., Vadodra
- 2) M/s Indian Poly Pipes, Calcutta
- 3) M/s Jain Irrigation Systems Ltd., Jalgaon
- 4) M/s Kirti Industries (India) Ltd., Indore
- 5) M/s Ori Plast Limited, Calcutta
- 6) M/s Phoel Industries Limited, Delhi
- 7) M/s Sangir Plastics (P) Ltd., Mumbai
- 8) M/s Veekay Plast, Jaipur
- 9) M/s Kisan Irrigation
- 10) M/s Dutron Polymers Ltd.
- 11) M/s Manikya Plstichem (P) Ltd
- 12) M/s Mangalam Pipes Pvt. Ltd., Bengaluru
- 13) M/s Shand Pipe industry Pvt. Ltd., Bengaluru
- 14) M/s Varun Pipes Pvt. Ltd., Bengaluru
- 15) M/s EPP Composite Pvt. Ltd., Rajkot
- 16) M/s DM Engineering Co. , Mumbai
- 17) M/s Narayani Polypipes, Kolkata
- 18) M/s Tirupati Teleplast Private Limited, Kolkata
- 19) M/s Utkarsh Polypipes, Kolkata
- 20) M/s East Hooghly Polypipes, Kolkata

**GI PIPES**

- 1) M/s Goodluck Steel Tubes Ltd, Ghaziabad
- 2) M/s Indus Tubes Ltd , New Delhi
- 3) M/s Jindal Pipes Ltd , New Delhi
- 4) M/s Jyotindra Steel & Tubes Ltd, Firozabad
- 5) M/s Rama Steel Tubes Ltd, New Delhi
- 6) M/s Surya Roshni Ltd, Bhadurgarh
- 7) M/s Vishal Pipes Ltd.
- 8) M/s Advance Steel Ltd.
- 9) M/s Swastik Pipe Ltd.
- 10) M/s Fortune Pipe Ltd.
- 11) M/s Indian Seamless Metal Tubes Ltd., Pune
- 12) M/s Appolo Tubes, Bengaluru
- 13) M/s Nezone Tubes Ltd., Kolkata
- 14) M/s Topworth Pipes & Tubes Pvt. Ltd., Navi Mumbai

**WARNING MAT**

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- 1) M/s Sparco Multiplast Pvt. Ltd., Ahmedabad
- 2) M/s Singhal Industries, Ahmedabad
- 3) M/s Raychem RPG Ltd.
- 4) M/s Puja Packings, Mumbai
- 5) M/s Bina Enterprises, Mumbai
- 6) M/s Shree Vijay Wire & Cables Industries, Jaipur

**GI FITTINGS**

- 1) M/s Jainsons Industries, Jalandhar
- 2) M/s Jupiter Metal Industries Ltd.
- 3) M/s Rajnesh Malleables Ltd., Delhi
- 4) M/s Industrial Valves & Components, Delhi
- 5) M/s Sarin Industries, Delhi
- 6) M/s Excel Metal & Engineering Industries, Mumbai
- 7) M/s Modern Stores & Engineering Concern, Kolkata
- 8) M/s Jinan Meide Casting Co. Ltd., China
- 9) M/s Mehta Brother & Co., Mumbai- (Make: M/s Jinan Meide Casting Co. Ltd., Japan) confirming to IS 1879:2010 latest standard
- 10) M/s Chokhawala Distributors

**COPPER TUBES AND FITTINGS**

- 1) M/s Paras Industries Ltd.
- 2) M/s Rajco Metal
- 3) M/s Chandan Enterprises
- 4) M/s Mehta Tubes
- 5) M/s Cofit Industries, Bengaluru
- 6) M/s Mandev Tubes
- 7) M/s Sagardeep Alloys
- 8) M/s Pallavi Copper Pipes

**BRASS FITTINGS**

- 1) M/s Chandan Enterprises
- 2) M/s Paras Industries Ltd.
- 3) M/s Umesh Enterprises
- 4) M/s Om brass Enterprises
- 5) M/s KPC Flexi Tubes
- 6) M/s Mehta Bros, Mumbai

**FLEXIBLE HOSE (ANACONDA)**

- 1) M/s KPC Flex Tubes
- 2) M/s Vestas Hose Division
- 3) M/s Alfa Flexitubes
- 4) M/s Bengal Industries Pvt. Ltd.
- 5) M/s Vikram & co.
- 6) M/s Gaytri Industrial Corporation, Thane (W)

**PE PIPES**

- 1) M/s Jain Irrigation System Ltd., New Delhi
- 2) M/s Pennwalt Agru Plastics Ltd., Navi Mumbai
- 3) M/s Pioneer Polyfeb Ltd. Ghaziabad
- 4) M/s Kriti Industries (i) Ltd., Indore
- 5) M/s Ori Plast Ltd., Kolkata
- 6) M/s.Purma Plast Pvt Ltd, Rajasthan

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**METERS AND REGULATORS**

- 1) M/s Actaris Metering System, New Delhi
- 2) M/s Elster Messtechnik Gmbh, Lampertheim
- 3) M/s Emerson Process Management (India) Pvt. Limited, Mumbai
- 4) M/s Equimeter Inc., USA
- 5) M/s Gorter Controls B.V., Netherlands
- 6) M/s Instromet International, Belgium
- 7) M/s Invensys Metering Systems India Ltd., Pune
- 8) M/s Mesura SA, France
- 9) M/s Pietro Fiorentini S.p.A, Italy
- 10) M/s RMG Regal – Messtechnik Gmbh, Germany
- 11) M/s Raychem RPG Limited, Kolkata
- 12) M/s Rockwin Flowmeter India Pvt. Ltd., New Delhi
- 13) M/s Itron India Pvt. Limited, Noida
- 14) M/s. Daniel Solutions Pvt. Ltd. Gurgaon

**STEEL REINFORCED RUBBER HOSE**

- 1) M/s Suraksha Products Pvt. Ltd.
- 2) M/s Vansh Industries
- 3) M/s T & L Gases
- 4) M/s Vikram & Co.
- 5) M/s Gayatri
- 6) M/s Luxmi Rubtech

**ISOLATION VALVES AND APPLIANCE VALVES**

- 1) M/s Universal Srl
- 2) M/s Tiemme Raccorderie Sede
- 3) M/s Jainson Industries
- 4) M/s Enolgas Bonimu s.a.s.
- 5) M/s Fratelli Fortis s.r.l
- 6) M/s Giacomo Climbrio
- 7) M/s Parker Hannifin S.P.A.
- 8) M/s Singapore Valve & Amp; Fittings Pte Limited, Singapore
- 9) M/S Rubinetterie Utensilerie Bonomi (RUB)
- 10) M/s Zhejiang Valogin Technology Co. Ltd. , China
- 11) M/s Ningbo Huaping Metalwork Co. Ltd., China
- 12) M/s Mehta Brothers, Mumbai.
- 13) M/s Chokhawala Distributors

**ANNEXURE 13**

**20.0 TECHNICAL SPECIFICATIONS FOR GIS DEVELOPMENT WORKS**

**SCOPE – DETAILED GIS SURVEY FOR PIPELINE NETWORK AND PREPARE GIS DATA.**

1. DETAILED GIS SURVEY FOR PIPELINE NETWORK AND LANDBASE FEATURE.
2. DATA DIGITIZATION, **DATA MIGRATION AND NETWORK MAPPING** ON TO A GIS PLATFORM.
3. QUALITY ASSURANCE AND QUALITY CONTROL
4. DATA QA/QC PROCEDURE AND DATA ACCEPTANCE
5. CLIENT'S SUPPORT / INPUT
6. DOCUMENTATION & DELIVERABLES
7. CONTRACTORS RESPONSIBILITY

## 1. DETAILED GIS SURVEY FOR PIPELINE NETWORK AND LANDBASE FEATURE.

Along with pipeline location survey the corridor through which the pipeline passes shall also be surveyed as per following specifications.

Ground survey will be done through high precision survey equipment like DGPS & Total station systems for collecting all the ground features with specified accuracy.

Collect positions of above ground gas objects /facilities like valves, City gas stations, pipe markers, Joint, PIT, Fittings, Depth, stations etc., during land base survey.

All building / apartment / society Areas to be checked for exact location of permanent hard structures, all boundaries and peripheries, fixed assets, building corners, gates etc. for existing pipeline.

As part of ground survey for all Land base features, relative distance / position of one feature w.r.t other feature shall be verified / rectified through ETS at precise level as per ground reality to meet the specified relative accuracy (i.e: distance from one point to another point on the map shall match as per ground within acceptable level) as per Data Acceptance criteria.

Corridor survey shall be done along the detected pipeline at **10 meters** corridor width which includes **5 meters** either side of the centre of the pipeline.

All surface land base features & above ground gas assets shall be surveyed along the corridor and collected as per requirement.

Survey shall be carried out using High precision DGPS & Total Station system in Feature collection with specified accuracy.

Positions of Major features like CGS, SR, fittings, tapping points, Valves, DRS, CNG stations, MRS, Depth shall be collected with the use of DGPS only.

Pipeline dimensions / offsets shall be taken on both sides of the pipeline wherever possible on the ground like turning points, crossings, junctions, straight line deviations and at major pipeline assets. These shall be taken w.r.t permanent features like boundary walls, divider, foot path, metro pillars and other permanent structures with exact distance on the ground.

After survey, Corridor mapping shall be done for the entire length of existing pipeline and its assets along the corridor with land base features includes roads, hydrology, easements, buildings / boundary walls, obstruction objects, bridges, etc., at each side of the centre of the detected pipeline position.

All land base & gas features with attributes & dimensions shall be mapped w.r.t available drawings and surveyed data as per the GIS data model, topology & business rules associated.

The direction of GAS flow shall also be displayed.

Major Land base features like buildings shall be collected & mapped with complete topology even if they are partially covered with in a corridor.

Landmarks / prominent public places shall also be captured if they are beyond of corridor in a considerable distance.

Survey Notes / Observations/ Computations: All intermediate and final records/data shall be organized in a systematic and pre-formatted manner as per Quality aspects. All the intermediate data computations and records shall be open for inspection and review by Client.

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The final corridor map shall be edge matched with the respective land base data and **uploaded into the GIS system** with linking of respective drawings.

All permissions required for field / survey/dig verification activities shall be managed by the contractor only. Client will issue a letter for the mentioned activity as per project scope only. Land base feature: following list of land base features needs to be captured /updated in detail as per given data model.

1	<b>Offset</b>
2	Divider
3	Railway
4	BRIDGE
5	OBSTRUCTION OBJECT
6	STREET
7	HYDROLOGY
8	RIGHT OF WAY
9	TUNNEL
10	BUILDING
11	AIRPORT
12	RESTRICTED AREA
13	EASEMENT
14	MINE
15	BOUNDARY

Note: The list is not exhaustive and will be finalized at the time of Survey.

**GAS FEATURES:** The following list gas features needs to be captured / updated in detail as per given data model (It may be vary at the time of execution)

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1	VALVE / SECTIONALIZING VALVE (S.V)
2	<b>PIPE DEPTH</b>
3	DRS / MRS
4	PIPELINE MARKER
5	TLP
6	CASING
7	PRESSURE GAUGE
8	ANODE
9	ANODE BED
10	CNG STATION / DEPOT / ROs
11	<b>FITTING</b>
12	PIPELINE
13	FLANGE
14	HDPE CONDUIT / OFC
15	TRU
16	<b>PIT</b>
17	PIPELINE TAP
18	ODORIZER
19	DROP BOX

Note: The list is not exhaustive and will be finalized at the time of Survey.

## **2.DATA DIGITIZATION, DATA MIGRATION AND NETWORK MAPPING ON TO A GIS PLATFORM.**

All the pipeline network data and respective Land base shall be uploaded into the GIS software by the Contractor **as per approved data model** specifications.

As a part of migration, all the activities shall be done by Contractor only. Development of QC, migration tools or use of any other required software's will be in the Contractor's scope.

Data mapping will meet system-built business rules, data specifications in all respects for the following.

- a. Structural level mapping
- b. Attribute mapping
- c. Co-ordinate mapping
- d. Logical level mapping
- e. **Application-level mapping**
- f. Data integrity etc,

Contractor shall have an **experienced team of GIS professionals** for implementing data migration tools and data check activities.

Vectorisation and data Development:

The scope includes the digitization and development of vector map from the satellite Image.

If an Image of Land feature for the area/Society/location is/are unavailable or not updated in the Satellite Image Contractor shall update the Maps after field verification & survey.

The base mapping shall be undertaken to digitize the Transport, Buildings, Hydro and other features. The resultant digital maps shall be plotted as per the input image resolution and later made in sync with the existing data in Client's Database if required.

## **3. QUALITY ASSURANCE AND QUALITYCONTROL**

- Ensure that not a single feature is being missed. Add the missing features (point, lines, polygons) if any.
- Ensure that the attribute identifiers added to the concerned features are correct. Add the missing attribute identifiers and correct the wrongly put attribute identifiers
- Check for extra or double digitization and delete the extra or double digitized features if any.

### **Field Survey for validation of spatial features & collection of attribute data for Land base features.**

The survey team shall validate the Land base features (vector map v/s field)

including identifying the missing and new features not available in Vector Map

The survey team shall collect the missing and new Land base features along with the attribute data available in field at the time of field survey

The survey team shall collect attribute data for all the spatial features.

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The field survey shall use Land base feature code / type & subtype list provided by Client and collect the attribute information according to the Feature ID printed on paper maps, particularly for the Buildings, Transport, Hydro and other features. Fill all the attribute information/data (feature wise) in pre-described field book formats provided by Client.

Contractor team shall perform internal QA/QC – shall verify the records of land base spatial features and attributes as filled by their survey team and match the desired accuracy.

Contractor shall maintain Map Grid wise field books for better reconciliation and future records.

The survey work shall be carried out by walking down the localities along with hard copy map at 1:1000 scale pertaining to particular Map Grid (500 x500 MM) and documents like area wise customer list and field book formats to collect data.

Contractor shall verify every building of the locality for filling up the required attribute as mentioned in the field book.

Contractor shall ensure that all the roads (road centreline, road edge and pavement) in the surveyed area entered with the required details as mentioned in the field book.

All other transport features in the locality surveyed to be entered with the required details as mentioned in the field book.

All other Land base features i.e. park, vegetation, open spaces, monuments, and wildlife sanctuaries, etc. within the locality surveyed to be entered with the required details as mentioned in the field book.

#### **Landbase Features Updation Procedure**

Contractor shall ensure that Data collected during the surveys – both spatial and non – spatial shall be updated on the base maps (GIS Maps)

Contractor shall carry out Feature validation/Updation based on the field survey input data

Contractor shall add geometry (line, point and polygon) of new features captured during field survey using GPS coordinates.

Contractor shall carry out the data entry for each field book for attaching the attribute data with respect to feature ID.

Contractor shall carry out Cross verification between the survey team member to avoid the errors in feature/Attribute

The attribute information shall be linked / joined to the spatial database after data entry.

The attribute data shall be linked to the corresponding features e.g., the data collected for the use of the buildings and the other facilities available will be linked to the building polygons and likewise for the other features.

#### **Gas Pipeline Network Placement/Overlaying Procedure**

The feature placement rules are defined for placing the features in relation to land base and other gas features.

Contractor shall place the line (For Gas network) exactly as per the **dimension distance** on the drawing/map, in any case it shall not be more than the specified tolerances.

Create Nodes for various apparatus like **tees, elbows, pipe ends** etc.

Develop all the attribute information about all pipeline objects

**Create the geometric Network of all the pipeline network elements based on the rules.**

#### **Data Finalisation and submission for Acceptance**

Contractor shall carry out a Quality Checks of the integrated data to prevent any loss in data such as features, matching and attribute consistency across tiles.

Contractor shall ensure all new features identified in the field survey shall be incorporated in the database/base map. Linking of the attribute database for these new features carried out from field

Contractor shall ensure creating **new unique ID** which shall be incrementally generated for these features in line with the existing Land base.

Contractor shall ensure **Edge matching and mosaicking** the sub-scenes as per the Master reference grid.

Contractor shall submit soft copy of updated grid wise base map with the attribute list (.xls) data developed in GIS Map

#### **4.DATA QA/QC PROCEDURE AND DATA ACCEPTANCE.**

Client shall perform complete check of all delivery.

Data QA/QC Criteria:

Client will perform a 100% quality check for feature location placement of land age features.

The quality check will also include attribute data of Land base features.

Client will perform a **100% quality check for connectivity.**

#### **Data Acceptance Criteria:**

Contractor shall develop standard template for QA/Qc process and report to Client on weekly basis.

#### **Features**

Feature accuracy is defined as the existence, completeness, geographic placement (absolute and relative), and cartographic representation of the geographic features and attributes for both Land base and gas features.

Land base & Gas Feature

- Features 98 %accuracy
- Attributes 100%accuracy

#### **Attributes**

Contractor is responsible for achieving a 100% accuracy rate for capturing of Feature Class and Object Class attributes for Land base. Client will check the correctness of data on the field by comparing the original source with the deliverable. If the source document is inaccurate or does not contain the necessary information, the attribute for that record shall not be considered for the 100% accuracy rate requirement.

Land base

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- Attributes 100%accuracy

## 5. CLIENT'S SUPPORT /INPUT:

All the available reference satellite imageries will be provided to the Contractor for reference. However, all the attributes shall be based on actual survey report.

Client will issue required letter to Contract for permission of survey form local authorities.

Client will issue user id and password for uploading the final GIS package in Client's GIS Portal.

## 6.DOCUMENTATION & DELIVERABLES

Survey data: Field data collected in soft copy as well as hard copy manner and Field data collected through DGPS/ ETS in soft copy as well as datasheets.

Corridor Maps: Land bas of GIS data as per required format & symbology.

Updated Gas Network Assets: SHP/GDB/as per required format & symbology updated in GIS package.

Uploading in GIS Portal: After QC of Client and accepted GIS package data (Land base and Gas Feature) shall upload in GIs portal As per provided data model in .shp/gdb file format with proper attribute.

Field Books with Map and Attribute information: Field Notes / Data Creation Reports / formats shall be provided in soft copy or hard copy in a systematic manner

Hard copy plots shall be provided for field QC activities as per requirement.

Complete compiled drawings of **gas network with coordinate and other features.**

**Note:** The data collection would be based on the provided data model template. If further changes in data model are required to complete interface/integration and other necessary business needs, then those changes shall be considered upon

Finalization of requirement and as per agreed solution, which would be arrived upon mutual discussion.

## 7. CONTRACTORS RESPONSIBILITY:

Right of access to Client or its representative for audit of the quality and accuracy of work done.

Contractor shall be responsible for settling all compensation and disputes arising out of any damages caused by him or his workmen during the execution of work.

Before making the final GIS deliverables, contractor must present the pre-final package for viewing of the Owner and modification/ updating suggested by the Owner shall be incorporated by the party in the final package.

The contractor shall provide details of work progress report on daily/ weekly basis through e-mail or as desired by the Owner.

If any mistake is found in the information entered by the contractor in the GIS package within the defect liability period, the same is to be corrected free of cost and the updated version are to be provided to the Owner.

**Project Execution Approach:** Contractor shall identify and appoint a senior project manager who shall have experience of managing complex projects. Contractor shall also identify and appoint core team, different function team with sufficient experience in their respective fields and communicate the list to Client before starting the work

Wherever the corridor survey and GIS data preparation fall together only one scope.



बंगाल गैस कंपनी ललललटेड BENGAL GAS COMPANY LIMITED  
(गेल एवि जीसीजीएससीएल का संयुक्त उद्ये) (A JV Company of GAIL and GCGSCL)

## **SECTION VII**

### **SCHEDULE OF RATES**

Sl. No.	Item Description	Units	Total Quantity	Unit Rate (in Rs.)	Total Amount (Excluding GST in Rs.)
1.00	<b>PE PIPELINE</b>				
2.00	<b>Pipe Laying in any type of surface like unprepared surface (Katcha surface)/NormalSurface/Hardsurface/Pebbles/Cobbles/Boulders/Structures/Rock surface etc using open cut/ Moling (without Casing)/ Moling (with Casing)/Directional Drilling technique (without casing pipe) methodology.</b>				
3.00	<p>Receipt, Loading, unloading, storing, reloading, transportation, unloading, stringing and laying of PE100, SDR11 line pipes of all sizes including, proper stacking, identification, and supply of accessories of all sizes &amp; thickness like PE Bends, Couplers, Endcaps, Tee, Reducer, CS / GI to PE Fittings (i.e. Transition Fittings of sizes up to 63 mm), Warning Mat etc.</p> <p>Handling, Stringing / uncoiling, aligning of the PE line pipe on the pipeline Right-of-Use / route, laying / installation of PE line pipe alongwith required accessories as mentioned above as per specification wherever required depending on site condition including execution of all works; Storage of material in contractor's store, fabrication, access for construction procurement and supply of all materials, consumables, equipments, labour and other inputs.</p> <p>In the case of free issue items, the scope also includes, receiving and loading from Owner's designated store, transportation, unloading and stacking of free issue items at Contractor's store.</p> <p>-Laying of all PE pipe (PE 100 SDR11), Including supply of HDPE casing pipe (in case of HDD (with case).Moling(with case) , Couplers, End caps etc. (Ref. tender document).</p> <p>-Survey of under ground utilities, execution of the work as per specification, including excavation of pits moling with the hole size not exceeding 20% of the pipe dia. jointing and insertion of carrier pipe with casing, testing &amp; commissioning and restoration of the pits to original condition, submission of As-Built Graph as per specifications and the instruction of Engineer-in-charge.</p> <p>-Casing details is as given below:-</p> <ol style="list-style-type: none"> <li>1. For 20/32 mm PE pipe (in 75 mm dia. HDPE Casing Pipe, PE 63/80 PN6.0).</li> <li>2. For 63 mm PE pipe (in 125 mm dia. HDPE Casing Pipe, PE 63/80 PN6.0).</li> <li>3. For 90 mm pipe (in 180 mm dia. HDPE Casing Pipe, PE 63/80 PN6.0).</li> <li>4. For 125 mm pipe (in 250 mm dia. HDPE Casing Pipe, PE63/80 PN 6.0).</li> <li>5. For 180 mm pipe (in 315 mm dia. HDPE Casing Pipe, PE63/80 PN 6.0).</li> </ol>				
4.00	Carrying out all temporary, ancillary, auxiliary works required to make the PE pipeline ready for commissioning as per drawings.				
5.00	Specifications, scope of work indicated in PJS and other provisions of Contract document and instructions of Engineer-in-charge, including but not limited to carrying out the following works:				
6.00	Surveying of route and detours required at the time of execution, preparation of construction drawings showing survey details and submit same to Owner for review / approval.				
7.00	Carrying out preliminary activities such as preparation of drawings wherever required for crossing etc.				
8.00	Preparation and getting approval of schedules, execution procedures, drawings/ sketches/ wherever required, making trial pits to determine the underground utilities/ services etc., restoration of the abandoned trial pits to original condition.				
9.00	Stacking and installation of construction markers, clearing, fencing, grubbing, cutting of trees, full filling all the requirements of various statutory/ environment authorities to the entire satisfaction of concerned authorities, grading of work area.				
10.00	Barricading the work area as per local authorities norms & to the satisfaction of Owner/ Engineer -in- charge, installation of safety signs.				
11.00	Barricading the pipeline construction area prior to execution of the works as per drawing enclosed with tender document and to the entire satisfaction of owner / engineer- in -charge.				
12.00	Laying using open trench without casing includes survey of under ground utilities (through trial pits), execution of work as per specification including Trenching to all depths by excavation in all types of soils including soft/ rocky strata (Rock Cutting to be paid separately as per SOR serial no.122.00) and different type of pavement / footpath / roads etc. including rock breaking, chiselling or otherwise cutting etc. as required and storing excavated soil, reusable materials at designated area as directed by Engineer in charge and to a width to accommodate the pipeline as per the relevant standard/ specification etc. [The minimum depth of the top of pipeline shall be 1.0 m measured from top of pipeline to the top of undisturbed surface of the soil or as per Specification/ OISD- 226 & PNGRB latest guidelines whichever is higher]. Dewatering of trenches / pits if required as per site condition. Repairing of all damaged utilities if any, and payment of any compensation (if claimed by owner / other utility agencies)				
13.00	Uncoiling / stringing & aligning of PE pipes, clamping, jointing of the pipe ends / fittings / valves by qualified personnel using approved electro-fusion techniques as per specification.				

Sl. No.	Item Description	Units	Total Quantity	Unit Rate (in Rs.)	Total Amount (Excluding GST in Rs.)
14.00	Installation / lowering the pipeline in trench to required depth as per Tender document, Technical Specification & drawings, supply & placement of HDPE Yellow colour warning mat (refer Tender Document) over the pipeline along the complete route as per standard drawings, data sheets & technical specifications, padding around pipeline including supply of suitable padding material duly approved by EIC, backfilling to its original condition with excavated earth / borrowed select soil/sand duly approved by EIC & its compaction & crowning. At certain specific area of ROU, trench shall be backfilled & compacted and shall be made ready for motorable. All tiles / slabs / curb stones etc removed during excavation shall be placed properly and no separate payment shall be admissible against this activity. Restoration shall be carried as per separate SOR item mentioned elsewhere in the SOR or to be done by Owner / concerned authorities.				
15.00	The scope of work against this item also include Electro-fusion jointing of valves, fittings wherever required and as directed by Engineer-in-charge.				
16.00	The scope of work against laying of 20/32 mm pipe also includes works like making of PCC pedestal of grade (1:2:4) and size ( (300mm(L)X200mm(W) XHeight (H)),(H>=300mm & will be as per site condition) ), supply and installation of GI Sleeve (Heavy (C-Class) as per IS-1239), filling of sand and installation of TF (along with supply).				
17.00	Pneumatic testing, purging with nitrogen and commissioning as per specification and approved procedures providing all tools and tackles, nitrogen, instruments, manpower and other related accessories and as per the instructions of the Engineer-in-charge.				
18.00	Final clean-up of right-of-use or area disturbed by contractor during their construction activities for laying of pipeline works and disposal of debris and surplus material to designated disposal areas and backfilling of trench and compaction of the same as per satisfaction of Owner and / or as directed by Engineer-in-charge.				
19.00	Maintaining the completed pipelines and installation for any defect or failures during defect liability period (i.e. 12 months from date of completion of work) .				
20.00	Handing over the completed works to Owner for their operation/ use, reconciliation of material area wise and obtaining "no objection certificate" from Owner/ LEPL.				
21.00	Preparation and submission of Daily progress report, Laying Graphs / PE line cards on daily basis.				
22.00	On completion of gas charging of pipelines. Preparation and submission of As-built drawings, crossings details, termination, utility graphs and deviation statements.				
23.00	In case, the minimum required depth is not possible due to site condition, necessary mitigation measures (for minimum top cover of 600mm) shall be required to be taken by contractor in consultation with EIC as per PNGRB Guidelines. No additional payment shall be admissible against the same. However required top cover can further be reduce till 375mm and payment against the same shall be made according to SOR serial no. 61.00 (whichever is applicable).				
24.00	Submission of all documents required for contract closure in numbers as mentioned in contract.				
25.00	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. All the work shall be executed in accordance with the provision of contract.				
26.00	20 mm PE 100 pipe Service line laying upto 4 M length	Nos.	150	2396.04	3,59,406.38
27.00	20 mm PE 100 pipe	Meter	25	336.35	8,408.69
28.00	32 mm PE 100 pipe	Meter	2250	492.39	11,07,866.25
29.00	63 mm PE 100 pipe	Meter	1500	554.80	8,32,200.00
30.00	90 mm PE 100 pipe	Meter	10	783.66	7,836.55
31.00	125 mm PE 100 pipe	Meter	0		0.00
32.00	180 mm PE 100 pipe	Meter	0		0.00
33.00	<b>MDPE Pipe line laying by moling Method, with casing pipe</b>				
34.00	20 mm PE 100 pipe (in 50mm dia HDPE casing pipe, PE 63/80 PN6.0)	Meter	0		0.00
35.00	32 mm PE 100 pipe (in 75mm dia HDPE casing pipe, PE 63/80 PN6.0)	Meter	0		0.00
36.00	63 mm PE 100 pipe (in 125mm dia HDPE casing pipe, PE 63/80 PN6.0)	Meter	0		0.00
37.00	90 mm PE 100 pipe (in 180mm dia HDPE casing pipe, PE 63/80 PN6.0)	Meter	0		0.00
38.00	125 mm PE 100 pipe (in 250mm dia HDPE casing pipe, PE 63/80 PN6.0)	Meter	0		0.00
39.00	180 mm PE 100 pipe (in 350mm dia HDPE casing pipe, PE 63/80 PN6.0)	Meter	0		0.00

Sl. No.	Item Description	Units	Total Quantity	Unit Rate (in Rs.)	Total Amount (Excluding GST in Rs.)
40.00	<b>MDPE Pipe line laying by HDD Method, with casing pipe</b>				
41.00	Survey of the under ground utilities, submission of HDD profile for approval (excluding road and nalla crossings), execution of the work as per the standard procedure attached, including excavation of the pits, Jointing of casing and carrier pipe and insertion of the carrier pipe in casing of dia ranging from 110mm to 160mm for 63 mm, 200mm to 250 mm dia for 125 mm dia MDPE and 250 mm to 315 dia for 180 mm MDPE, subsequent sealing, backfilling, compaction, submission of as built graphs, final HDD profiles as per attached specification and the instruction of EIC / Site Engineer of Owner. The other activities are as per SOR serial no. 2.00 and as detailed in specification and as per the instructions of the EIC / Site engineer of Owner. The payment shall be made for length of casing pipe laid in HDD, remaining carrier pipe length without casing shall be paid under SOR serial no. 2.00, Supply of HDPE pipe is in vendor's scope.				
42.00	32 mm PE 100 pipe (in 75mm dia HDPE casing pipe, PE 63/80 PN6.0)	Meter	0		0.00
43.00	63 mm PE 100 pipe (in 125mm dia HDPE casing pipe, PE 63/80 PN6.0)	Meter	0		0.00
44.00	90 mm PE 100 pipe (in 180mm dia HDPE casing pipe, PE 63/80 PN6.0)	Meter	0		0.00
45.00	125 mm PE 100 pipe (in 250mm dia HDPE casing pipe, PE 63/80 PN6.0)	Meter	0		0.00
46.00	180 mm PE 100 pipe (in 350mm dia HDPE casing pipe, PE 63/80 PN6.0)	Meter	0		0.00
47.00	<b>NOTE</b>				
48.00	The lengths of pipelines are tentative.				
49.00	For restoration of asphalt / concrete roads, the item for construction of asphalt top / concrete top / Tiles/Stone slab/Paver Blocks/Curb Stones shall be paid separately as per the rates quoted for the same elsewhere in the SOR.				
50.00	Pipeline shall be laid upto a depth not more than 1.4 m.				
51.00	In case quantity increases beyond 4 meter (against SOR serial no. 26.00) payment towards additional length shall be paid as per SOR serial no. 27.00				
52.00	For PE laying through casing pipe ,payment for length of PE pipe will be done as per casing pipe length.				
53.00	Payment for items above under pipeline laying in all type of rocky strata shall be made only wherever hard rock is existing and supply and installation of padding materials(i.e. sand/soft soil)shall be done as per the direction of EIC.Bidders to quote accordingly.				
54.00	<b>Restoration</b>				
55.00	Restoration of the roads, pavements, channels, footpaths, tiles, stones etc. to original condition including supply of the approved quality material required, as per local authorities norms, obtaining NOC from concerned local authorities / land owners / third party inspection agencies (if any) designated by owner and to the satisfaction of Engineer-in-charge.				
56.00	Asphalting	Meter	174.2	319.01	55,571.54
57.00	Cement Concrete	Meter	174.2	790.59	1,37,720.78
58.00	Tiles / Paver / Blocks / Curb Stones, Red sand stone	Meter	435.45	325.95	1,41,932.75
59.00	Brick Soling / Channels, etc.	Meter	261.145	232.32	60,669.86
60.00	Providing, hoisting and placing of 75 mm thick precast reinforced cement concrete slab of M-20 grade over pipeline as mechanical protection including the cost of required centering, shuttering, reinforcement complete as per tender drawing and direction of the EIC. Note:- Size (Length x Width) of the precast slab will be decided as per site condition and as per instruction of EIC. Precast slab will be placed in multiple number and various location as per site condition and as per instruction of EIC.	Cubic Meter	0.25	6907.26	1,726.82
61.00	<b>Pipe laying inside Private Property i.e Multistory buildings / apartments with no movement of Heavy Vehicles, surrounded with Boundary wall where pipe top cover could not be achieved 600 mm.</b>				
62.00	Minimum pipe top cover of 375 mm is required and the line pressure shall not exceed 110mbar.				
63.00	Necessary mitigation measures such as RCC slab (150mm thick and 300mm width) at the top, the RCC slab of the roof of basement shall be treated as bottom. There shall be sand filling across three sides of the line pipe of 100mm each shall be required to be taken by contractor in consultation with EIC as per latest PNGRB Guidelines. No additional payment shall be admissible against the same.				

Sl. No.	Item Description	Units	Total Quantity	Unit Rate (in Rs.)	Total Amount (Excluding GST in Rs.)
64.00	Receipt, Loading, unloading, storing, reloading, transportation, unloading, stringing and laying of 20mm, 32mm & 63mm PE pipe (PE 100 SDR11) including proper stacking, identification, and supply of accessories of below mentioned sizes & all thickness like PE Bends, Couplers, Endcaps, Tee, Reducer, CS / GI to PE Fittings (i.e. Transition Fittings of sizes 20 mm to 63 mm), Warning Mat etc. Handling, Stringing / uncoiling, aligning of the PE line pipe on the pipeline Right-of-Use / route, laying / installation of PE line pipe along with required accessories as mentioned above as per specification wherever required depending on site condition including execution of all works; Storage of material in contractor's store, fabrication, access for construction procurement and supply of all materials, consumables, equipments, labour and other inputs. In the case of free issue items, the scope also includes, receiving and loading from Owner's designated store, transportation, unloading and stacking of free issue items at Contractor's store.				
65.00	Carrying out all temporary, ancillary, auxiliary works required to make the PE pipeline ready for commissioning as per drawing.				
66.00	Surveying of route and detours required at the time of execution, preparation of construction drawings showing survey details, and submit same to Owner for review / approval.				
67.00	Preparation and getting approval of schedules, execution procedures, drawings/ sketches/ wherever required, making trial pits to determine the underground utilities/ services etc., restoration of the abandoned trial pits to original condition.				
68.00	Barricading the pipeline construction area prior to execution of the works as per drawing enclosed with tender document and to the entire satisfaction of owner / engineer-in-charge.				
69.00	Laying using open trench without casing includes survey of under ground utilities (through trial pits), execution of work as per specification including Trenching to all depths by excavation in all types of soils including soft/ rocky strata (Rock Cutting to be paid separately as per SOR serial no. 122.00) and different type of pavement / footpath / roads etc. including rock breaking, chiselling or otherwise cutting etc. as required and storing excavated soil, reusable materials at designated area as directed by Engineer in charge and to a width to accommodate the pipeline as per the relevant standard/ specification etc. [The minimum depth of the top of pipeline shall be 1.0 m measured from top of pipeline to the top of undisturbed surface of the soil or as per Specification/ OISD- 226 & PNGRB latest guidelines whichever is higher]. Dewatering of trenches / pits if required as per site condition. Repairing of all damaged utilities if any, and payment of any compensation (if claimed by owner / other utility agencies)				
70.00	Uncoiling / stringing & aligning of PE pipes, clamping, jointing of the pipe ends / fittings / valves by qualified personnel using approved electro-fusion techniques as per specification.				
71.00	Installation / lowering the pipeline in trench to required depth, supply & placement of HDPE Yellow colour warning mat (refer tender document) over the pipeline along the complete route and backfilling to its original condition with excavated earth / borrowed select soil / sand duly approved by EIC & its compaction & crowning. At certain specific area of ROU, trench shall be backfilled & compacted and shall be made ready for motorable. All tiles / slabs / curb stones etc removed during excavation shall be placed properly and no separate payment shall be admissible against this activity. Restoration shall be carried as per separate SOR item mentioned elsewhere in the SOR or to be done by Owner / concerned authorities.				
72.00	The scope of work against laying of 20/32 mm pipe also includes works like making of PCC pedestal of grade (1:2:4) and size ((300mm(L)X200mm(W) XHeight (H)), (H>=300mm & will be as per site condition)), supply and installation of GI Sleeve (Heavy (C-Class) as per IS-1239), filling of sand and installation of TF (along with supply).				
73.00	Pneumatic testing, purging with nitrogen and commissioning as per specification and approved procedures providing all tools and tackles, nitrogen, instruments, manpower and other related accessories and as per the instructions of the Engineer-in-charge.				
74.00	Final clean-up of right-of-use or area disturbed by contractor during their construction activities for laying of pipeline works and disposal of debris and surplus material to designated disposal areas and backfilling of trench and compaction of the same as per satisfaction of Owner and / or as directed by Engineer-in-charge.				
75.00	Maintaining the completed pipelines and installation for any defect or failures during defect liability period (i.e. 12 months from date of completion of work).				
76.00	Handing over the completed works to Owner for their operation/ use, reconciliation of material area wise and obtaining "no objection certificate" from Owner/ Consultant.				
77.00	On completion of gas charging of pipelines. Preparation and submission of As-built drawings, crossings details, termination, utility graphs and deviation statements.				
78.00	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. All the work shall be executed in accordance with the provision of contract.				
79.00	20 mm PE 100 pipe / 32 mm PE 100 pipe	Meter	25	546.48	13,661.95
80.00	63 mm PE 100 pipe	Meter	12.5	589.48	7,368.44
81.00	<b>Supply of GI/ MS/ Concrete Sleeves (wherever required as a Special Case as per instructions of the Engineer-in-charge)</b>				

Sl. No.	Item Description	Units	Total Quantity	Unit Rate (in Rs.)	Total Amount (Excluding GST in Rs.)
82.00	Supply, installation of sleeve, insertion of pipe, sealing the annuals, firm fixing of Sleeves with concrete mix. Breaking through any obstructions and their subsequent restoration, as per specifications and instructions of the Engineer-in-charge. GI/MS Pipes shall be Heavy (C-Class) as per IS-1239				
83.00	<b>GI Sleeves /Concrete Sleeves</b>				
84.00	2 1/2" NB, 1' Length	Nos.	1	214.99	214.99
85.00	4" NB, 1' Length	Nos.	1	374.49	374.49
86.00	<b>MS Enamel Coated</b>				
87.00	4" NB, 3' Length	Nos.	1	853.01	853.01
88.00	<b>Concrete Sleeve (NP-2 Class)</b>				
89.00	4" NB, 3' Length	Nos.	1	214.99	214.99
90.00	6" NB, 3' Length	Nos.	1	339.82	339.82
91.00	The decision regarding use of type of sleeves to be used at various locations shall be made by Engineer In-Charge / Owner				
92.00	<b>Installation of valve in pit including supply of valves</b>				
93.00	Supply of isolation valves (as per data sheet) and installation of valves in the valve pits as per typical drawing and specification enclosed and instructions of Engineer-in-charge. Payment of valve pits shall be paid separately as per SOR.				
94.00	PE Valve 32 mm dia	Nos.	2	4681.13	9,362.25
95.00	PE Valve 63 mm dia	Nos.	1	10347.02	10,347.02
96.00	PE Valve 90 mm dia	Nos.	1	15860.35	15,860.35
97.00	PE Valve 125mm dia	Nos.	0		0.00
98.00	PE Valve 180mm dia	Nos.	0		0.00
99.00	<b>Construction of Valve Pits as per the enclosed tender drawing and specification. The item includes supply of all the material including Pre-cast RCC cover, shuttering, reinforcement, labour, curing etc as per the drgs, specification and instruction of EIC.</b>				
100.00	Type-I having Internal size of Minimum 1000 x 1000mm	Nos.	1	24064.45	24,064.45
101.00	Type-II having Internal size of Minimum 600 x 600mm	Nos.	2	14702.20	29,404.40
102.00	Note: The tender drawing enclosed is only for reference purpose and contractor shall be required to prepare drawings (in line with reference tender drawing) for specific sizes of Valve pits and the same shall be approved by EIC.				
103.00	<b>Fabrication &amp; Installation of Markers</b>				
104.00	<b>RCC Route Markers</b>				
105.00	Supply, fabrication and installation of RCC route markers as per the attached drawing in technical volume, along the route including all associated civil works such as excavation and construction in all types of soils, construction and pedestals and grouting with concrete.	Nos.	75	402.23	30,167.25
106.00	<b>Pole Markers with Foundation</b>				
107.00	Supply, fabrication and installation of plate markers as per the attached drawings in technical volume including all associated civil works such as excavation and construction in all types of soils, construction and pedestals and grouting with concrete, cleaning, stencil let.	Nos.	25	2267.75	56,693.63
108.00	<b>Warning Plate Markers</b>				
109.00	Supply, fabrication and installation of plate markers, including application of approved color and quality of primer and paint, stencil letter cutting of lettering, numbers, direction, etc. as per the attached drawing in technical volume to be installed near regulator.	Nos.	150	416.10	62,415.00
110.00	<b>Liaisoning with Land Owning Agencies for Permission</b>				

Sl. No.	Item Description	Units	Total Quantity	Unit Rate (in Rs.)	Total Amount (Excluding GST in Rs.)
111.00	Submission of applications as per approved drawing provided by owner / owner's representative (Initial Route survey, preparation of drawing, measuring and providing details of surface type shall be in scope of contractor), obtaining and submission of demand note, coordination, Liaisoning, obtaining written permission from land owning agencies like NHAI, AAI, Indian Railways and any other government agencies who maintains the public lands and agencies owing Private lands etc. (all fee paid to authorities excluding demand charges or Bank Guarantees shall be reimbursed against documentary evidence). This rates are not applicable for Private lands i.e. Apartments etc. Permissions required from various authorities like NHAI / Railways / Irrigation (Canal) etc. falling enroute shall be inclusive in the item rate.	KM	4	16477.56	65,910.24
112.00	<b>Construction of RCC structure for protection of service line for drain/nallah Crossings</b>				
113.00	Construction of Non suspended slabs/pavement slabs including pedestal/ramp etc.using reinforced cement concrete of M-25 grade (Concrete shall be design mix/nominal mix with 20 mm & down size graded crushed stone aggregates) to protect the PE pipe laid. All necessary form work, finishing the top surface rough/smooth as required in any position, shape, level and thickness etc. shall be as specified and directed by EIC. The rates shall include grouting of pockets, supply of all material, tools, reinforcement steel etc.	M3	0.15	1484.09	222.61
114.00	<b>GPR Survey ( Scope includes submission of GPR survey report before/after obtaining permission for excavation from land owning agencies with complete satisfaction of the land owning agency &amp; Owner)</b>				
115.00	GPR Survey - Length up to 100 meter	Nos.	1	5728.31	5,728.31
116.00	GPR Survey - Length more than 100 meter	RM	250	36.06	9,015.50
117.00	<b>GIS Survey</b>				
118.00	GIS data shall be collected of laid MDPE pipeline network. Data like Geo Co-ordinates (latitude, longitude) of Pipeline and related features like fittings, valves, FRS, MRS, Markers etc. shall be collected as per given procedure along with 6 m land base corridor (3 m on either side of the pipeline) with min. accuracy of 50 cm. Data format shall be in shape (.shp) or Geo Database (.gdb)	Meter	3935	15.26	60,036.30
119.00	<b>Excavation of Hard rock/surface</b>				
120.00	Excavation of trench or pits, wherever hard rock presence is exceeding 1.5 m in any direction of the trench and excavation of trench or pits in Malba/Multiple layers of asphalt/ brick / PCC/RCC etc and removable only by pneumatic chisel / drill as per the specifications and direction of EIC. The rates are payable over and above the Laying rates as per relevant SOR serial no. 2.00				
121.00	Cutting of PCC/RCC surface with thickness more than 12" or Continuous asphalt multi-layer/ Malba/ Brick / Boulders more than 24".(Malba shall be considered as a strata where soil is in mixed form of debris/building rubbish or discarded pieces of bricks/stones )	RM	0.15	478.52	71.78
122.00	<b>Rock Cutting</b> encountered while excavation of trenches for SOR serial no. 2.00 , not exceeding 1.5 meter in width, and lift upto 1.5 meter, including getting out the excavated soil and disposal of excavated soil as directed within a lead of 50 meter. In case of rocky soil, the bedding shall be done with approved/ good quality packing sand, subject to the approval of the EIC, the size distribution of the sand / shall be the same as per soil. The packing sand shall be placed to a minimum thickness of 150mm around the pipe in case of rocky terrain.	Cu. Meter	0.075	1262.17	94.66
123.00	<b>TOTAL MDPE LAYING WORK (A)</b>				
124.00	<b>DRS/DCU/DRS cum DCU/MRS/Metering skid works</b>				
125.00	<b>Installation of DRS/DCU/DRS cum DCU</b>				
126.00	Receiving and taking over, handling, loading, transportation and unloading of DRS/DCU/DRS cum DCU from Owner's designated stockyards to site, installation at foundation (including supply of all structural items) and hooking up with PE pipe including all works as required to complete the job as per the drawings and specification, scope of work mentioned in tender document. The scope includes supply of transition fittings up to 63mm and other PE and CS fittings as per requirements and various associated works (including steel welding) to commission DRS/DCU/DRS cum DCU. <b>Note:</b> 1) Amount towards civil work shall be payable as per related SOR items. 2) Rate to include cost of all labour, tools, tackles, equipment, hire charges. 3) Bolts, nuts, washer, U-clamps, gaskets etc. if required during installation shall be procured and supplied by the Contractor within the rate quoted. These items shall not be separately measured and paid.				
127.00	DCU/DRS cum DCU. (Maximum weight of single DCU/DRS cum DCU shall be about 6.0 T)	Nos.	0		0.00
128.00	MRS/Metering Skid(Maximum weight of single MRS/Metering skid shall be about 4T)	Nos.	0		0.00

Sl. No.	Item Description	Units	Total Quantity	Unit Rate (in Rs.)	Total Amount (Excluding GST in Rs.)
129.00	<b>Note:</b> i) The quantities mentioned are indicative only. ii) For all the supply items mentioned above, procurement shall be made as per specification after due approval of engineer- in - charge. iii) All inlet work of DRS/DCU/DRS cum DCU works will be in the scope of Steel laying /Composite work contractor.				
130.00	<b>TOTAL DCU/DRS INSTALLATION WORK (B)</b>				
131.00	<b>CIVIL WORKS</b>				
132.00	<b>Earth Work</b>				
133.00	Earth in excavation and filling to the grades and levels shown in the approved drawings in all kinds of conditions including for Road embankments, using approved quality good earth from designated borrow area, for all heights and depths including clearing and stripping (min. 150 mm) of the area marked for filling, taking spot levels, consolidating the exposed natural soil surface, excavating the earth from borrow area loading, transporting & unloading, spreading in layers not exceeding 150 mm thickness, breaking clods, watering (if reqd.), ramming and compacting by manual/ mechanical means to give minimum 92% of modified Proctor's density of earth, testing & dressing including disposal of all unserviceable material all complete as per specifications and directions of Engineer-in-charge.	M <sup>3</sup>	0		0.00
134.00	(Rate to include cost of all labour, tools, tackles, equipment, hire charges, cost of borrow earth by way of royalties, right of way, cess etc., as applicable with all bye works and sundry works).				
135.00	<b>PCC 1:2:4</b>				
136.00	1 Cement : 2 Coarse sand : 4 stone aggregate 20mm nominal size.	M <sup>3</sup>	0		0.00
137.00	<b>PCC 1:4:8</b>				
138.00	1 Cement : 4 Coarse sand : 8 stone aggregate 40mm nominal size.	M <sup>3</sup>	0		0.00
139.00	(Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials, shuttering, earthwork in excavation and backfilling using approved earth in all conditions etc. with all bye works and sundry works.)				
140.00	<b>Reinforced Cement Concrete</b>				
141.00	Providing and laying reinforced cement of grade M-25 with 20mm and down grade crushed stone aggregate in all types of structures like foundations, pedestals, pedestal bases, pipe supports, sleepers, column, equipment foundation, cable trench including construction joints, bitumen painting on surface in contact with soil, supplying and fixing reinforcing steel, shuttering, inserts, finishes etc. at all depths and heights complete as per drawings, specifications and direction of the Engineer-in-charge.	M <sup>3</sup>	0		0.00
142.00	Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 43 grade cement including sulphate resistant cement for sub-structures, R/F steel, Inserts, bolts, conduits, bitumen, other minor construction materials, shuttering, staging, earthwork in excavation and backfilling using serviceable earth in all conditions, shorting bailing and pumping out water, testing of concrete, curing etc. with all bye works and sundry works.				
143.00	<b>Concrete Pavement</b>				
144.00	Providing and laying reinforced cement concrete of (M-25 grade) with 20mm and down grade crushed stone aggregate in pavement, including preparation of base (i.e. compacted subgrade, 200 thk sand and 50 thk PCC M-10 grade), leaving pockets if necessary, making recess, projections, fixing inserts conduit pipes (GI, PVC, HDPE, etc.) laying in alternate panels, filling the gaps between the panels with bitumen etc., making slopes, finishing edges, leaving bars for pedestals & sleepers including providing sand fill isolation , shuttering, providing and fixing reinforcing steel, curing, chipping and modification works etc. as specified in any shape, thickness, position and finishing the top surface smooth as per requirement etc. all complete as per drawings, specifications and directions of the Engineer-in-charge.				
145.00	- 150mm thick (Type-I)	M <sup>2</sup>	0		0.00
146.00	<b>Brick Work</b>				
147.00	Providing brick work with brick class designation M-7.5 of IS:1077 in cm1:4 (1 cement : 4 sand) in steps, walls, retaining walls and load bearing structures drains, or any shape with all lead, depths & height including curring, scaffolding, etc., as per specifications and drawings with all bye-works and direction of the Engineer-in-charge.	M <sup>3</sup>	0		0.00
148.00	(Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 43 grade cement, bricks, finishes, bitumen, other minor construction materials, shuttering, staging, masonry work, plastering, painting etc. with all bye-works and sundry works).				
149.00	<b>Note:</b> The quantities of individual item can varied as per site requirement. The payment will be made as per actual certified measurement at site.				
150.00	<b>Laying of Brick layer/ Concrete</b>				

Sl. No.	Item Description	Units	Total Quantity	Unit Rate (in Rs.)	Total Amount (Excluding GST in Rs.)
151.00	Providing single layer of Brick / Concrete / or impact resistant tape to entire width of trench above Warning Mat placed in trench over the laid pipeline as per OISD 226, standard drawing, specification and instruction of Owner. (Rate to include cost of all labour, tools, tackles, equipment, hire charges & supply of all materials, etc)				
152.00	Brick Layer for width of PE pipeline trench as per drawing (75 mm thk.)	Sq.m	0		0.00
153.00	Concrete for width of PE pipeline trench as per drawing (80 mm thk.)	Sq.m	0		0.00
154.00	<b>Demolition of PCC work below plinth level</b>				
155.00	Demolishing plain cement concrete (PCC) work (taking all necessary safety precautions) for all depths below plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning, etc. , disposal of unserviceable material outside the boundary limits keeping the owner indemnified of any liabilities from statutory/ local bodies, all complete work as specified and directed	M <sup>3</sup>	0		0.00
156.00	<b>Excavation for foundation works</b>				
157.00	Excavation as per plan, upto 3 meters and upto any lead in all conditions, backfilling using serviceable earth and disposal of surplus and unserviceable earth. Soil to be levelled and neatly dressed complete in all respect as per scope of work, technical specification and directions of EIC.				
158.00	Upto 3.0 Mtrs	M <sup>3</sup>	0		0.00
159.00	Dismantling of RCC & cutting of reinforcement (Thickness above 3")	M <sup>3</sup>	0.125	284.34	35.54
160.00	Core Cutting of RCC structure/Brick Wall	M <sup>3</sup>	0.125	2402.98	300.37
161.00	<b>Structural Works</b>				
162.00	<b>Providing and fixing Fencing Structure</b>				
163.00	Supplying, fabricating & fixing steel structural fencing fabricated from pipes conforming to IS:1161 and plates conforming to IS:2062 & fixing of GI weldmesh made from 3mm GI wire @ 75 mm bothways to structural steel frame by means of welding/bolting, including applying two coats of approved quality of synthetic enamel paint over a priming coat of in approved shade including supply of all raw materials, bolts, electrodes, transportation, including making pokets & pouring with PCC (1:2:4) in of block 500x500x500 for fixing of posts etc complete as per enclosed drawing, technical specifications, scope of works and directions of the Engineer-In-Charge.				
164.00	Fencing height 2.1m	RM	0		0.00
165.00	<b>Providing and fixing Fencing Gates</b>		0		0.00
166.00	Supplying, fabricating & fixing fencing gates fabricated from pipes conforming to IS:1161 and plates conforming to IS:2062 & fixing of GI weldmesh made from 3mm GI wire @ 75 mm bothways to structural steel frame by means of welding/bolting, painting with enamel paint in approved shade including supply of all raw materials, bolts, electrodes, transportation etc complete as per enclosed sketch, technical specifications and directions of the Engineer-In-Charge.				
167.00	4m Wide x 2.1m High	Nos.	0		0.00
168.00	3m Wide x 2.1m High	Nos.	0		0.00
169.00	1m Wide x 2.1m High	Nos.	0		0.00
170.00	<b>Electrical</b>				
171.00	<b>Supply, Installation and testing of Galvanized iron earth electrode with 3mts long 65mm dia GI perforated pipe Class B, Complete with GI earth bus, test link in RCC / Brick earth pit, charcoal, salt, funnel and earth pit cover as per IS:3043, (as per drg. enclosed)</b>	Nos.	0		0.00
172.00	<b>Supply and installation of GI earthing conductor of the following sizes:-</b>				
173.00	Above ground/buried under ground				
174.00	25X 6mm GI Strip	Meter	0		0.00
175.00	2.5 sq.mm CuPVC wire	Meter	0		0.00
176.00	10sq. Mm Cu PVC insulated cable	Meter	0		0.00
177.00	<b>TOTAL CIVIL/MECH/ELECT WORK ( C )</b>				
178.00	<b>PNG Connection to Domestic Consumers</b>				
179.00	<b>Installation of GI Service Pipe</b>				

Sl. No.	Item Description	Units	Total Quantity	Unit Rate (in Rs.)	Total Amount (Excluding GST in Rs.)
180.00	Supply, loading, storing, unloading and installation of GI pipes, including supply of GI fittings/accessories including Anaconda, Fittings of all sizes & thickness like Elbows, Hex Nipple, Tees, unions, sockets, reducers, GI plugs, Sleeves etc., installation of GI line (alongwith installation of required accessories as mentioned above) of following sizes, including fabrication with supply of all materials, consumables, labour and other incidental works. The scope of work <b>excludes</b> installation of Regulators (1/6 bar to 21 m bar with HEX nipple on inlet and outlet side of regulator) which shall be provided as free issue item. Carrying out all temporary, ancillary, auxiliary works required to make the GI line ready for commissioning as per drawings specifications.				
181.00	Scope of work indicated in Tender document and other provisions of Contract document and instructions of Engineer-in-charge, including but not limited to carrying out the following works: Preparation and approval of schedules, execution procedures, sketches.				
182.00	Finalisation of optimum route with consent of customer, from transition fitting to cooking oven/ appliance.				
183.00	Making temporary but stable platforms/ scaffolding/ rope ladders and all other safety measures including safety belts wherever required.				
184.00	Installation of GI Pipes, Fittings, including NPT threading, painting as specified.				
185.00	Drillings of holes through walls (Brick, RCC), Granite, Marble, Glass Cutting with proper heavy duty hammer drill machine tools and tacklees, using proper sealent /grout material colors to match the original replacement of damages during drilling, restoring the area to original condition.				
186.00	Supply & Fixing of approved clamps, Dowell Plugs with screws, grout material, suitable thread sealant i.e. Teflon Tape/ lock tight, drilling of holes through tiles/ wood/ marble/ Granite etc. jointing of PE to above Ground service GI pipes, testing, purging with Nitrogen and commissioning of the complete installation as per specification.				
187.00	Painting of entire length of pipe along with fittings after proper surface finish by one coat of approved primer paint and two coats of approved synthetic enamel paint complete as per specification & direction of EIC. Restoring the wall surface to origin.				
188.00	All above activities to be carried out as per specification to the complete satisfaction of consumer & as desired by Engineer-in-charge.				
189.00	Handing over the completed works to CLIENT for operation/ use, reconciliation of material area wise and obtaining "no objection certificate" from CLIENT / PMC.				
190.00	Any other activity not mentioned/ covered, explicitly above, but otherwise required for satisfactory completion/ safety/ statutory/ maintenance of works shall also be covered under scope of work and has to be completed by contractor within specified schedule time.				
191.00	all the entry of GI related work right from Registration till Gas charging/commission is to be recorded & maintained in soft as well as hard copy which will be used for certifying the measurement by PMC /CLIENT and keep track of activity of all the contractors , the entry of all the activity on day to day basis is also in the scope of bidder.				
192.00	½" All floors (Including connectivity from TF to regulator)- <b>with supply of GI Pipes by Contractor</b>	Meter	0		0.00
193.00	½" All floors (Including connectivity from TF to regulator)- <b>with supply of GI Pipes by Owner on Free Issue Basis.</b>	Meter	1400	208.05	2,91,270.00
194.00	¾" All Floors (Including Installtion of Risers)- <b>with supply of GI Pipes by Contractor</b>	Meter	0		0.00
195.00	¾" All Floors (Including Installtion of Risers) <b>with supply of GI Pipes by Owner on Free Issue Basis</b>	Meter	1800	211.52	3,80,731.50
196.00	1" Dia All Floors (For Riser Installtions & For Commercial Connections)- <b>with supply of GI Pipes by Contractor</b>	Meter	0		0.00
197.00	1" Dia All Floors (For Riser Installtions & For Commercial Connections)- <b>with supply of GI Pipes by Owner on Free Issue Basis</b>	Meter	600	240.64	1,44,386.70
198.00	<b>Note:-</b>				
199.00	Refer Particular Job Specification for supply items.				
200.00	The quantity measurement shall be from the outlet of the Transition Fitting (TF) upto the Meter. All intermediate GI fittings (excluding Flexible hose/Anaconda, valves and regulator) shall be considered while measuring length of GI Pipes.				
201.00	Supply and installation of isolation Ball Valves shall be paid as a separate SOR Item.				
202.00	In case of SOR serial no. 193.00, 195.00, 197.00 above (under SOR serial no.- 179.00), owner shall supply <b>Plain or Powder Coated</b> GI Pipes (as free issue) remaining scope of supplies of fittings etc. including all associated works shall be as per serial no. 192.00, 194.00, 196.00 (under SOR serial no- 179.00)				
203.00	Core Cutting work of RCC structure/Brick Wall shall be paid as a separate SOR Item.				
204.00	<b>Installation of GI Service Pipe (Welded)</b>				

Sl. No.	Item Description	Units	Total Quantity	Unit Rate (in Rs.)	Total Amount (Excluding GST in Rs.)
205.00	Transportation of Free issue materials such as Heavy Class GI Pipes along with loading / unloading from BGCL stores to the site and and supply of all required fittings, fabrication, welding, Installation of pipe along with all fittings, valves etc. in various floors vertically / horizontally for providing PNG connection in various type of Highrise buildings. The Installtion of pipes shall be by taking support from wall or ceiling by providing Clamps/Hangers/ structural supports and fixing with Fastners / anchor bolts of required Nos and size etc. Supply of all types of supports and clamps are in the scope of the contractor. For GI items, proper scrubbing to be done to remove the GI coating to take up the welding. The item includes requisite scaffolding / working arrangements at height along with all necessary safety arrangements per the requirement at site / Instruction of EIC. Item also includes pneumatic testing of the assembled section as per the specification and standard procedure of testing,nitrogen purging and commissioning of the complete installation. After testing of the system, it shall be hooked with PE pipe along with TF fitting of requisite size. Items also includes painting of GI pipe and scrubbed-off part of GI items with the two coat of synthetic enamel painting and fittings as per specification.The type of weld joints,type of electrode,Radiography,DP test and other procedure shall be as per Technical specification.				
206.00	Scope of work indicated in PJS and other provisions of Contract document and instructions of Engineer-in-charge, including but not limited to carrying out the following works: Preparation and approval of schedules, execution procedures, sketches.				
207.00	Finalisation of optimum route with consent of customer, from transition fitting to cooking oven/ appliance.				
208.00	Making temporay but stable platforms/ scaffolding/ rope ladders and all other safety measures including safety belts wherever required.				
209.00	Drillings of holes through walls (Brick, RCC), Granite, Marble, Glass Cutting with proper heavy duty hammer drill machine tools and tackeles, using proper sealent /grout materialed colors to match the original replacement of damages during drilling, restoring the area to original condition.				
210.00	Painting of entire length of pipe along with fittings after proper surface finish by one coat of approved primer paint and two coats of approved synthetic enamel paint complete as per specification & direction of EIC. Restoring the wall surface to origin.				
211.00	All above activities to be carried out as per specification to the complete satisfaction of consumer & as desired by Engineer-in-charge.				
212.00	Handing over the completed works to CLIENT for operation/ use, reconciliation of material area wise and obtaining "no objection certificate" from CLIENT / PMC.				
213.00	Any other activity not mentioned/ covered, explicitly above, but otherwise required for satisfactory completion/ safety/ statutory/ maintenance of works shall also be covered under scope of work and has to be completed by contractor within specified schedule time.				
214.00	all the entry of GI related work right from Registration till Gas charging/commission is to be recorded & maintained in soft as well as hard copy which will be used for certifying the measurement by PMC /CLIENT and keep track of activity of all the contractors , the entry of all the activity on day to day basis is also in the scope of bidder. Notes: Welded riser will be installed for G+20 and above building in general.				
215.00	½" All floors (Including connectivity from TF to regulator)- <b>with supply of GI Pipes by Contractor</b>	Meter	0		0.00
216.00	½" All floors (Including connectivity from TF to regulator)- <b>with supply of GI Pipes by Owner on Free Issue Basis.</b>	Meter	0		0.00
217.00	¾" All Floors (Including Installtion of Risers)- <b>with supply of GI Pipes by Contractor</b>	Meter	0		0.00
218.00	¾" All Floors (Including Installtion of Risers) <b>with supply of GI Pipes by Owner on Free Issue Basis</b>	Meter	5	383.51	1,917.53
219.00	1" Dia All Floors (For Riser Installtions & For Commercial Connections)- <b>with supply of GI Pipes by Contractor</b>	Meter	0		0.00
220.00	1" Dia All Floors (For Riser Installtions & For Commercial Connections)- <b>with supply of GI Pipes by Owner on Free Issue Basis</b>	Meter	200	420.26	84,052.20
221.00	<b>Note:-</b>				
222.00	Refer Particular Job Specification for supply items.				
223.00	The quantity measurement shall be from the outlet of the Transition Fitting (TF) upto the Meter. All intermediate GI fittings (excluding Flexible hose/Anaconda, valves and regulator) shall be considered while measuring length of GI Pipes.				
224.00	Supply and installation of isolation Ball Valves shall be paid as a separate SOR Item.				
225.00	In case of SOR serial no. 216.00, 218.00, 220.00 above (under SOR serial no.- 204.00), owner shall supply <b>Plain or Powder Coated</b> GI Pipes (as free issue) remaining scope of supplies of fittings etc. including all associated works shall be as per serial no.-215.00, 217.00, 219.00 (under SOR serial no. 204.00)				
226.00	Core Cutting work of RCC structure/Brick Wall shall be paid as a separate SOR Item.				
227.00	Above 20th floor welded riser along-with forged fitting is mandatory and same in contractor's scope				
228.00	<b>Supply, Installation, Testing &amp; Commissioning of Copper Service Pipes /Multi Layer Composite (MLC) Pipes</b>				
229.00	<b>Supply and installation of copper tubing as per LEPL TS and associated fittings including brass fittings at the outlet of the meter and at the entry of appliance valve as per satisfaction of EIC. The copper tube and fittings shall be procured from approved vendors who have supplied these items for similar application earlier and with prior approved of Client / Consultant.</b>				

Sl. No.	Item Description	Units	Total Quantity	Unit Rate (in Rs.)	Total Amount (Excluding GST in Rs.)
230.00	Copper tube shall be installed from the downstream of meter upto the isolation valve before the customers' appliance as per requirement and to the satisfaction of EIC. The Contractor to provide all equipment, tools and material necessary to execute the work in an efficient manner by cutting, cleaning, flux application, soldering and lacquering. The work includes supply of all tools, tackles and consumables including clamps for fixing the tubes.				
231.00	12.0 mm OD x 0.6 mm wall thickness	Meter	1000	374.49	3,74,490.00
232.00	<b>Supply and installation of MLC Pipe as per ISO17484-1 latest standard and installation of Appliance Ball valves as per technical specification alongwith associated accessories/fittings including brass fittings at the outlet of the meter and at the entry of appliance valve as per satisfaction and instruction of EIC. The MLC Pipe and fittings shall be procured from approved vendors or from those vendors, who have supplied these items for similar application earlier and with prior approved of Owner / PMC.</b>				
233.00	MLC Pipe shall be installed from the downstream of meter upto the isolation/ appliance valve before the customer's appliance as per requirement and to the satisfaction of EIC. The Contractor to provide all equipment, tools & tackles and associated material required necessary to execute the work in an efficient manner by cutting, cleaning, Bending, Fixing with clamp etc. The work includes supply of all tools, tackles and consumables including clamps for fixing the MLC pipe and restoration of the work area to the satisfaction of the customer.				
234.00	16.0 mm OD				
235.00	Note:				
236.00	Supply and installation of Appliance Ball Valves shall be paid as a separate SOR Item.				
237.00	SOR serial No.229.00 & 232.00 shall be carried out including supply of materials, only after getting instruction / approval from EIC.				
238.00	<b>Installation of Meter, Flexible Hose &amp; Conversion of Domestic Appliance:</b>				
239.00	<b>Installation &amp; fixing of meters</b> with associated inlet connections/ fittings, valves, <b>Meter Regulators(100mbar-21mbar)</b> approved meter brackets and other supports by proper scaffolding/ grouting, Restoring the area to original complete as per specification. (Meter and Regulator will be provided as free issue Items)	Nos.	450	237.18	1,06,729.65
240.00	Installation & fixing of meters with associated inlet connections/ fittings, valves, <b>Domestic Regulators(4bar-21mbar)</b> approved meter brackets and other supports by proper scaffolding/ grouting, Restoring the area to original complete as per specification. (Meter and Regulator will be provided as free issue Items)	Nos.	50	413.33	20,666.30
241.00	<b>Charging of Domestic Appliance</b> ,This works starts from outlet of meters which includes installation of GI pipe,Appliance valve etc & other supports by proper scaffolding/ grouting, Restoring the area to original complete as per specification. The work also includes installation and supply of Steel reinforced Flexible Hose as per IS 9573 (with Type as per latest PNGRB guidelines) (Gas tube from end of Isolation Valve upto burners/stove) and <b>charging of LPG stove/PNG stove</b> (one per household) including supply of all types of burner nozzles/jets and associated controls.	Nos.	500	191.41	95,703.00
242.00	Cleaning and performing minor maintenance, greasing etc. of appliance, testing/ showing performance to the customer ,signing of Joint Meter Records (JMR) and instructing customer on use & safety norms, complete as per specifications & to satisfaction of customer				
243.00	<b>Isolation Ball Valve And Appliance Valve</b>				
244.00	Supply and installation of Isolation & Appliance Ball Valves as per Technical Specification and as directed by EIC				
245.00	Isolation Ball Valve 1/2 " max. 6 bar (g)	Nos.	1500	212.21	3,18,316.50
246.00	Isolation Ball Valve 3/4 " max. 6 bar (g)	Nos.	150	345.36	51,804.45
247.00	Isolation Ball Valve 1 " max. 6 bar (g)	Nos.	40	432.05	17,282.02
248.00	Appliance Ball Valve 1/2 " max. 35 mili Bar (g)	Nos.	500	178.92	89,461.50
249.00	<b>Testing,Commsioning &amp; integration of previously laid GI /Copper Piping for PNG Connection:-</b>				

Sl. No.	Item Description	Units	Total Quantity	Unit Rate (in Rs.)	Total Amount (Excluding GST in Rs.)
250.00	Testing,Commissioning & integration of previously laid GI /Copper Piping network of various sizes having riser ,headers as well as laterals & outlet work (GI/Copper).Item include checking of the network by air pressure ,repair if any leakage observed and to make network ready for GAS-IN by providing manpower tools & tackles ,gasket etc. The total length of the network being tested shall be considered for payment . <b>All sizes of GI network from 1/2" to 1" and Copper Outlet pipe.</b> <b>Note:-</b> <b>i) It includes any rectification,repair or replacement activities involving associated GI /CU fittings (as applicable) ,GI valve etc. and any other associated work required for completeness of PNG connections.</b> <b>ii) It may also be noted that in case of replacement of GI pipes ,same shall be payable as per SOR serial no. 179.00/ 204.00 (which includes required GI fitting for complete integration and in that case payment for the fitting coming under the replaced length of GI pipe shall not be payable in SOR serial no. 249.00).</b> <b>iii) It may also be noted that in case of replacement of Cu tubes ,same shall be payable as per SOR serial no. 228.00 (which includes required fitting for complete integration and in that case payment for the fitting coming under the replaced length of Cu Tube shall not be payable in SOR serial no. 249.00).</b>				
251.00	Testing,Commissioning & integration of previously laid GI Piping	Meter	15	37.45	561.74
252.00	Testing,Commissioning & integration of previously laid Copper Piping	Meter	0.5	53.40	26.70
253.00	<b>Regulator Boxes:</b> Supply including painting of approved make regulator boxes and installing them firmly by grouting using approved bracket /clamps as per drawing enclosed & as per specifications and and cleaning the area complete to the satisfaction.				
254.00	<b>Service Regulator Boxes:</b> Supply and installation of Service Regulators Boxes as per drawing attached and as per directions of EIC.	Nos.	2	850.92	1,701.85
255.00	<b>Domestic/Service Regulators</b> :-Installation of all type of regulators at all floors of various capacity 2.5 to 65 SCMH with supply & fixing of associated inlet and outlet connections/ fittings,HEX nipple on inlet and outlet side of regulator,bracket and other supports with grouting as required ,by using proper scaffolding .Restoring the area to original complete as per specification.				
256.00	<b>Domestic Service Regulator (0.5 -6 bar to 100mbar)-10 SCMH to 65 SCMH capacity</b> (only supply of regulator is free issue material)	Nos.	5	705.98	3,529.92
257.00	<b>Stream Service Regulator as per approved scheme.</b> <b>Ref. dwg in tender document</b>	Nos.	5	6341.36	31,706.82
258.00	<b>COMMERCIAL METER:-</b> Installation & fixing of commercial meter alongwith box such as G4,G6,G10,G16 and G25 etc with associated inlet and outlet connection fittings,Meter brackets (if required) ,pipe supports etc,by using proper scaffolding .Restoring the area to original complete as per specification.Commercial Meter is a free issue material.	Nos.	0		0.00
259.00	<b>COMMERCIAL REGULATOR:-</b> Installation & fixing of commercial regulators(0.5-6 bar to 300/500mbar)-10 SCMH to 65 SCMH capacity with associated inlet and outlet connection fittings with required supports.Restoring the area to original complete as per specification.Commercial Regulator is a free issue material.	Nos.	0		0.00
260.00	<b>Preservation of Pipeline</b>				
261.00	Preservation of pipeline sections and associated facilities (in event of delay in commissioning, other unforeseen reasons) including supply of nitrogen, all consumables, all equipment, man-power, etc. complete as per the requirements of specifications, other provisions of Contract document and instructions of Engineer-in-charge.				
262.00	<b>By filling and pressurizing with nitrogen to a pressure of 2 bar(g) for a period of one month or part thereof.</b>				
263.00	For 180 mm Pipeline	Meter	0		0.00
264.00	For 125 mm Pipeline	Meter	0		0.00
265.00	For 90 mm Pipeline	Meter	10	12.48	124.83
266.00	For 63 mm Pipeline	Meter	1500	11.10	16,644.00
267.00	For 32 mm Pipeline	Meter	2250	9.02	20,284.88
268.00	For 20 mm Pipeline	Meter	25	8.32	208.05
269.00	<b>For every additional period of one month or part thereof Limited to 6 month</b>				
270.00	For 180 mm Pipeline	Meter	0		0.00

Sl. No.	Item Description	Units	Total Quantity	Unit Rate (in Rs.)	Total Amount (Excluding GST in Rs.)
271.00	For 125 mm Pipeline	Meter	0		0.00
272.00	For 90 mm Pipeline	Meter	10	6.94	69.35
273.00	For 63 mm Pipeline	Meter	1500	5.55	8,322.00
274.00	For 32 mm Pipeline	Meter	2250	4.85	10,922.63
275.00	For 20 mm Pipeline	Meter	25	4.16	104.03
276.00	Notes: i) The above length is not for a single section but for no. of sections.				
277.00	ii) All accessories ie; End caps and two nos tappings of 3/4 inches, PG to be considered per section and rate for the same shall be quoted by bidder under this item.				
278.00	iii) If month is partially complete, payment shall be made on prorata basis.				
279.00	iv) Scope includes pressure holding for a period of 6 months or as per EIC and jointing of PE pipe (if required) due to damage by any means and further filling of nitrogen for pressure holding.				
280.00	<b>Registration of Domestic PNG Connections</b>				
281.00	Assistance in carrying out the work of Domestic PNG registration as per directions/instructions of the Marketing In charge of CLIENT / Authorized representative including but not limited to following:  1) Enrolment & Registration of Domestic PNG Customers as per the given target. 2) Collection of filled up form along with Cheque/Demand Draft of Security Deposit amount and documents . 3) Submission of application along with SD Cheque/DD and all supporting documents  All other activities as may be required to complete the work in all respect is defined in the Scope of work to be read along with the Special Conditions of Contract and as per instructions of MIC. Carrying out the marketing activities for Domestic PNG connection as detailed in Scope of work, complete in all respects, as per directions/instructions of the Marketing In Charge including but not limited to the following: Distribution of leaflets & FAQ, Installation of banners, to be provided by client, at prime location, Awareness cum Registration Camp, Audio / Visual Presentations, Organizing Road Shows, etc.	Nos.	500	104.03	52,012.50
282.00	Note:(i) The quantities of individual item can varied as per site requirement.The payment will be made as per actual certified measurement at site. For the supply items the quantities shall be procured after approval from client/ consultant/EIC.				
283.00	(ii) The bidder must indicate currency(ies) against each quoted item of the SOR.				
284.00	(iii) The total amount shall also be given by the bidder in the quoted currency(ies). (iv) Some of the may / may not be execute as per site requirements.				
285.00	<b>TOTAL DPNG WORK (D)</b>				
286.00	<b>Total Price (inclusive of all applicable taxes, duties &amp; other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST) for complete scope of work</b>				52,39,127.55
287.00	<b>Total Price (inclusive of all applicable taxes, duties &amp; other levies [if any] payable by the Contractor under the Contract, or for any other cause With 18% GST) for complete scope of work is shown in below column.</b>				61,82,170.51