



**“HIRING OF AGENCY ON RATE CONTRACT BASIS FOR EXECUTION OF
LAST MILE CONNECTIVITY WORKS TO DIFFERENT CGD ENTITIES”**

**TENDER NO.: IGGL/GHY/C&P/LMC/10-25
(E –TENDER NO: IGGL-100093)**

DOMESTIC COMPETITIVE BIDDING THROUGH OPEN E-TENDERING

Issued by
INDRADHANUSH GAS GRID LIMITED (IGGL)
(A Public Limited Company)

7th Floor, 122A, NRL Centre, Christian Basti, G S Road, Guwahati-781005, Assam

ATTENTION

THIS IS AN ELECTRONIC TENDER

***For Participation in this tender please visit the web site: [Govt. CPP Portal -
https://etenders.gov.in](https://etenders.gov.in).***

=====

TABLE OF CONTENTS

SL. NO.	SECTION NO.	DESCRIPTION
1.0	I	INVITATION FOR BID (IFB)
2.0	II	BID EVALUATION CRITERIA (BEC) AND EVALUATION METHODOLOGY
3.0	III	INSTRUCTIONS TO BIDDERS
4.0	IV	GENERAL CONDITIONS OF CONTRACT
5.0	V	FORMS & FORMATS
6.0	VI	SPECIAL CONDITIONS OF CONTRACT (SCC)& SCOPE OF WORK (SOW)
7.0	VII	SCHEDULE OF RATES / PRICE SCHEDULE
8.0	VIII	ATTACHMENTS

=====

SECTION-I

INVITATION FOR BID (IFB)

SECTION-I "INVITATION FOR BID (IFB)"

Ref No: IGGL/GHY/C&P/LMC/10-25

Date: 24.10.2025

To,
Prospective Bidders

SUB: "HIRING OF AGENCY ON RATE CONTRACT BASIS FOR EXECUTION OF LAST MILE CONNECTIVITY WORKS TO DIFFERENT CGD ENTITIES"

Dear Sir/Madam,

1.0 **INDRADHANUSH GAS GRID LIMITED (IGGL)**, a Joint Venture (JV) of IOCL, ONGC, GAIL, OIL and NRL, having its registered office at Guwahati in the State of Assam, invites Bids from bidders for the subject, in complete accordance with the following details and enclosed Tender Documents.

2.0 The brief details of the tender are as under:

(A)	NAME OF WORK / BRIEF SCOPE OF WORK/JOB	HIRING OF AGENCY ON RATE CONTRACT BASIS FOR EXECUTION OF LAST MILE CONNECTIVITY WORKS TO DIFFERENT CGD ENTITIES.				
(B)	TENDER NO. & DATE	IGGL/GHY/C&P/LMC/10-25 dated 24.10.2025 (E-Tender No. IGGL-100093)				
(C)	TYPE OF BIDDING SYSTEM	<table><tr><td>SINGLE BID SYSTEM</td><td>☐</td></tr><tr><td>TWO BID SYSTEM</td><td>☒</td></tr></table>	SINGLE BID SYSTEM	☐	TWO BID SYSTEM	☒
SINGLE BID SYSTEM	☐					
TWO BID SYSTEM	☒					
(D)	TYPE OF TENDER	<table><tr><td>E-TENDER</td><td>☒</td></tr><tr><td>MANUAL</td><td>☐</td></tr></table>	E-TENDER	☒	MANUAL	☐
E-TENDER	☒					
MANUAL	☐					
(E)	COMPLETION/CONTRACT PERIOD	06 (six) Months from the date of Release Order. Release Order can be given at any time within 03 years from the date of FOA/LOA/WO.				
(F)	BID SECURITY / EARNEST MONEY DEPOSIT (EMD)	<table><tr><td>APPLICABLE</td><td>☒</td></tr><tr><td>NOT APPLICABLE</td><td>☐</td></tr></table>	APPLICABLE	☒	NOT APPLICABLE	☐
APPLICABLE	☒					
NOT APPLICABLE	☐					
EMD amount: INR 23.67 Lacs (Refer clause no.16 of ITB)						

(F1)	DECLARATION FOR BID SECURITY	Bidders eligible for exemption as per extant guidelines in vogue are required to submit Declaration for Bid Security as per proforma at Form F-2A
(G)	AVAILABILITY OF TENDER DOCUMENT ON WEBSITE(S)	From: 24.10.2025 to 14.11.2025 upto 14:00 Hrs, (IST) on following websites: IGGL Website – https://iggl.co.in/ Govt. CPP Portal - https://etenders.gov.in
(H)	DATE, TIME & VENUE OF PRE-BID MEETING	Date: 31.10.2025 Time: 11:00 HRS Venue: IGGL office, 7 th Floor, 122A, NRL Centre, Christian Basti, G S Road, Guwahati via On-line mode (Refer Clause 17.0 of Instruction to Bidders)
(I)	DUE DATE & TIME OF BID-SUBMISSION	Date : 14.11.2025 Time : 14:00 HRS.
(J)	DATE AND TIME OF UN-PRICED BID OPENING	Date : 15.11.2025 Time : 14:00 HRS
(K)	CONTACT DETAILS OF TENDER DEALING OFFICER	1) Name: Mr. Kulajit Talukdar Designation: General Manager (C&P) Phone No.: 9531101226/8 E-mail: kulajit.talukdar@iggl.co.in 2) Name: Mr. Tanveer Jalal, Designation: Chief Manager (C&P) Phone No.: 91-361-280-1400 E-mail: tanveer.jalal@iggl.co.in
(L)	DEALING IGGL'S OFFICE ADDRESS	INDRADHANUSH GAS GRID LIMITED 7 th Floor, 122A, NRL Centre, Christian Basti, G S Road, Guwahati-781005, Assam

Note: In case of the days specified above happens to be a holiday in IGGL, the next working day shall be implied.

- =====
- 3.0 Bids must be submitted strictly in accordance with Clause No. 11 of ITB. The IFB is an integral and inseparable part of the bidding document.
- 4.0 In case of E-Tender, bid must be submitted only on <https://etenders.gov.in>. Further, the following documents in addition to uploading the bid on e-tender portal shall also be submitted in Original (in physical form) within 7 (seven) days from the bid due date provided the scanned copies of the same have been uploaded in e-tender by the bidder along with e-bid within the due date and time to the address mentioned in Bidding Data Sheet (BDS):
- (i) EMD/Bid Security /Declaration for Bid Security (As applicable)
 - (ii) Power of Attorney
 - (iii) Line of Credit (If applicable)
 - (iv) Integrity Pact
- 5.0 Bidder(s) are advised to quote strictly as per terms and conditions of the tender documents and not to stipulate any deviations/exceptions.
- 6.0 Any bidder, who meets the Bid Evaluation Criteria (BEC) and wishes to quote against this Tender Document, may download the complete Tender Document along with its amendment(s) if any from websites as mentioned at 2.0 (G) of IFB and submit their Bid complete in all respect as per terms & conditions of Tender Document on or before the Due Date & Time of Bid Submission.
- 7.0 Bid(s) received from bidders to whom tender/information regarding this Tender Document has been issued as well as offers received from the bidder(s) by downloading Tender Document from above mentioned website(s) shall be taken into consideration for evaluation & award provided that the Bidder is found responsive subject to provisions contained in Clause No. 2 of ITB. The Tender Document calls for offers on single point "Sole Bidder" responsibility basis (except where JV/Consortium bid is allowed pursuant to clause no. 3.0 of ITB) and in total compliance of Scope of Works as specified in Tender Document.
- 8.0 Any revision, clarification, addendum, corrigendum, time extension, etc. to this Tender Document will be hosted on the above-mentioned website(s) only. Bidders are requested to visit the website regularly to keep themselves updated.
- 9.0 All the bidders including those who are not willing to submit their bid are required to submit F-6 (Acknowledgement cum Consent letter) duly filled within 7 days from receipt of tender information.
- 10.0 System generated Request for Quotation (RFQ), if any, shall also form an integral part of the Tender Document.
- 11.0 IGGL reserves the right to reject any or all the bids received at its discretion without assigning any reason whatsoever.

Indradhanush Gas Grid Limited

(A JV of IOCL, ONGCL, GAIL, OIL & NRL)

=====

This is not an Order.

For & on behalf of
Indradhanush Gas Grid Limited
(Authorized Signatory)

Name : Kulajit Talukdar
Designation : GM (C&P)
E-mail ID : kulajit.talukdar@iggl.co.in
Contact No. : 9531101226/8

=====

DO NOT OPEN - THIS IS A QUOTATION

Tender Document No. : IGGL/GHY/C&P/LMC/10-25 (E-TENDER NO. IGGL-100093)

Description : "HIRING OF AGENCY ON RATE CONTRACT BASIS FOR EXECUTION OF LAST MILE CONNECTIVITY WORKS TO DIFFERENT CGD ENTITIES"

Due Date & Time : 14.11.2025 at 14:00 hrs.

From:

To:

.....	GM (C&P) IGGL, 7th Floor, 122A, NRL Centre, Christian Basti, G S Road, Guwahati-781005, Assam PHONE: :9531101226/8
----------------	--

{To be pasted on the envelope containing Physical documents}

=====

=====

SECTION-II

BID EVALUATION CRITERIA (BEC) & EVALUATION METHODOLOGY

SECTION-II

BID EVALUATION CRITERIA & EVALUATION METHODOLOGY

The intending bidders for above tender should meet the qualifications as given below:

1.0 BID EVALUATION CRITERIA (BEC):

1.1 BEC (TECHNICAL)

The bidder must have successfully executed/completed "Similar work/ (s)*" having minimum executed / completed order value as mentioned below, in any of the preceding 07 years period reckoned from original bid due date:

*Similar works	Minimum Work Order Value		
	I (or)	II (or)	III
"Similar Work" shall mean The bidder must have Completed / Executed "Composite work" including Supply related to Mainline / Mechanical / Electrical / Instrumentation / Telecom / SCADA with or without Civil work for Oil / Gas /CNG/LNG/Auto LPG/ Petrol/ Diesel fuel Station / Terminals or Hydrocarbon Plant/ Industry (Steel/Power/ Fertilizer/Pharma/ Non ferrous/ Mining & Metals/Manufacturing plant)	One (1) similar work order / contract with minimum Executed Value not less than Rs.631.28 Lakhs	Two (2) similar work orders / contracts with minimum Executed Value not less than Rs.394.55 Lakhs each.	Three (3) similar work orders / contracts with minimum Executed Value not less than Rs.315.64 Lakhs each.

Note 1:

- In case more than one contract are emanating against one tender, all such individual contracts are to be considered as single contract for evaluation of credential of a bidder for meeting their experience criteria.
- A Job executed by a Bidder for its own plant/ project cannot be considered as experience for the purpose of meeting BEC of this Tender Document. However, jobs executed for Subsidiary/Fellow subsidiary / Holding company will be considered as experience for the purpose of meeting BEC subject to submission of tax paid invoice (s) duly certified by Statutory Auditor of the Bidder towards payments of statutory tax in support of the job executed for Subsidiary/Fellow subsidiary/ Holding company. Such Bidders to submit these documents in addition to the documents specified to meet BEC.
- In case the bidder has experience as a consortium member and such member has executed earlier a job with in its scope as a member of the consortium, which is required

=====

as experience as per the qualification criteria in clause no. a) above, will be considered. Documentary evidences as stipulated in bidding document are to be submitted to establish such experience.

- d) A job completed by a Bidder as a Sub-Contractor shall be considered for the purpose of meeting the experience criteria of BEC, provided the appointment of sub-contractor was authorized and subject to submission documents in support of meeting the Bidder's qualification criteria. Experience of bidder acquired as a subcontractor can be accepted against submission of certificate from end user by such bidder along with other specified documents. However, in case bidder is not able to furnish the completion / execution certificate from the End User/ Owner/ PMC in the name of subcontractor, then the bidder shall furnish Completion / Execution certificate issued by end user / Owner (or their consultant who has been duly authorized by owner to issue such certificate) to the main-contractor along with a copy of the approval by End User/ Owner/ PMC for engaging the bidder as a sub-contractor to the main-contractor. In absence of such documents, IGGL reserve right to reject the bid without making any reference to the bidder or assigning any reason whatsoever.
- e) Consortium bids are not acceptable.
- f) Detailed work order along with Schedule of Rates with other relevant documents such as tender scope of work/ Job specification/ SOR/ Contract Agreement for the experience as per the definition of "Similar work" shall be submitted with the bid. Completion certificate as mentioned above to be submitted

1.2 BEC (FINANCIAL):

- i) **Average Annual Turnover:** The minimum average annual turnover achieved by the bidder as per their audited financial results of the preceding three financial years should be **Rs.394.55 Lakhs**
- ii) **Net Worth:** The Net Worth of the bidder should be positive for the preceding audited financial year.
- iii) **Working Capital:** The minimum working capital of the bidder for the preceding audited financial year should be **Rs.78.91 Lakhs**.

NOTE 2:

- a) 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.
Declaration Letter/Certificate for line of credit due to short fall of working capital shall be from single bank only. Letters from multiple banks shall not be applicable. However, a banking syndicate will also be acceptable wherein a group of banks can jointly provide line of credit to the bidder.
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.

- =====
- b) **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.

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.

- c) **Net Worth/Working Capital:** Immediate preceding financial year mentioned in aforesaid BEC refer to audited financial results for the immediate preceding financial year 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 preceding financial year is not available, in such case the audited financial results of the year immediately prior to that year will be considered. Bidder is to submit Audited Financial Statement of immediate preceding financial years (as mentioned above) along with format F-10 accordingly for Networth/ Working Capital.

1.3 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 Net-Worth & 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>

1.4 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. After submission of bid, only related shortfall documents will be asked for in TQ/CQ and considered for evaluation. For example, if the bidder has submitted a contract without its completion/ performance certificate, the certificate will be asked for and considered. However, no new reference/ PO / WO / LOA is to be submitted by bidder in response to TQ/CQ so as to qualify and such documents will not be considered by IGGL for evaluation of Bid.

Any shortfall information / documents on the Audited Annual Report / Financial Statement of the Bidder and/or line of credit for working capital issued on or before the final bid due date can only be sought against Commercial queries (CQs). Any information/ documents issued post final bid due date shall not be considered for evaluation.

Experience of bidder acquired as a subcontractor can be accepted against submission of certificate from end user by such bidder along with other specified documents.

1.5 RELAXATION OF PRIOR TURNOVER AND PRIOR EXPERIENCE FOR START-UPS (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**

1.6 DOCUMENTS TO BE SUBMITTED FOR COMPLIANCE TO BEC

(A) BEC-Technical:

- I. To meet the Technical BEC, Bidder must submit the Detailed work order with detailed Schedule of Rates (SOR) along with Completion/ Execution Certificate.

The work order must clearly indicate as under:

- Name & Full Address of organization who has issued the work order.
- Nature of Work / Service along with various components / items.
- Completion time / Contract period
- Value of Work order

The Completion / Execution certificate must clearly indicate as under:

- Name & Full Address of organization who has issued the Completion / Execution Certificate
- Reference of relevant work order / Contract agreement / Letter of Award in completion / Execution certificate.
- Completed / Executed value of work.
- Actual date of completion of contract.

(B) BEC-Financial:

DESCRIPTION	DOCUMENTS REQUIRED FOR QUALIFICATION
Annual Turnover, Net Worth and Working Capital	(a) Bidder shall submit "Details of financial capability of bidder" in prescribed formats available in tender documents [Refer Section for Forms and Formats] duly signed and stamped by a Chartered Accountant. (b) Bidder(s) shall submit copy of Audited annual financial statements of preceding 03 (Three) financial years along with un-priced bid.

Bidder shall furnish the duly filled and signed Check list for submission of documents for qualification for Bid Evaluation Criteria (BEC) as per format F-8(A)

=====

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

i) Technical Criteria of Bid Evaluation Criteria (BEC):

All documents in support of Technical Criteria of BEC to be furnished by the bidder shall necessarily be **duly certified/ attested by Chartered Engineer and Notary Public with legible stamp.**

ii) Financial Criteria of Bid Evaluation Criteria (BEC):

Bidder shall submit "Details of financial capability of Bidder" in prescribed format (F-10) duly signed and stamped by a chartered accountant/ Certified Public Accountant (CPA)

Further, copy of audited annual financial statements submitted in bid shall be **duly certified/ attested by Notary Public with legible stamp.**

1.8 Eligibility criteria in case bid is submitted on the basis of technical experience of FOREIGN BASED ANOTHER COMPANY (SUPPORTING COMPANY) which holds more than fifty percent of the paid-up share capital of the bidder company or vice versa:

Offers of those bidders (not under consortium arrangement) who themselves do not meet the technical experience criteria as stipulated in the BEC and are quoting based on the experience of Foreign based another company (Supporting Company) can also be considered. In such case the supporting company should hold more than fifty percent of the paid-up share capital of the bidding company or vice versa.

However, the supporting company should on its own meet the technical experience as stipulated in the BEC and should not rely on any other company or through any other arrangement like technical collaboration agreement.

In that case as the bidding company is dependent upon the technical experience of another company with a view to ensure commitment and involvement of the companies involved for successful execution of the contract, the participating bidder should enclose the following Agreements/ Guarantees/ Undertakings along with the techno-commercial bid:

- (i) An Agreement (*as per format enclosed at Appendix- A1 to Section II*) between the bidder and the supporting company.
- (ii) Guarantee (*as per format enclosed at Appendix- A2 to Section II*) by the supporting company to IGGL for fulfilling the obligation under the Agreement along with certificate issued by Company Secretary as per *Appendix- A2A to Section II*.
- (iii) Undertaking by Supporting Company to provide a Performance Bank Guarantee (*as per format and instructions enclosed at Appendix- A3 to Section II*), equivalent to 50% of the value of the PBG which is to be submitted by the bidding company, in case of being the successful bidder.

In cases where foreign based supporting company does not have Permanent Establishment in India as per Indian Income Tax Act, the bidding company can furnish Performance Bank Guarantee for an amount which is sum of PBG amount to be submitted by the bidder and additional PBG amount required to be submitted by the supporting company subject to the condition that supporting company have 100% paid up equity share capital of the bidder either directly or through intermediate

=====

subsidiaries or vice versa.

In such case bidding company shall furnish an undertaking that their foreign based supporting company is not having any Permanent Establishment in India in terms of Income Tax Act of India.

- (iv) Undertaking from the supporting company to the effect that in addition to invoking the PBG submitted by the bidding company, the PBG provided by supporting company shall be invoked by IGGL due to non-performance of the bidding company.

Note:

- 1.0 In case Supporting Company fails to submit Bank Guarantee as per (iii) above, EMD/SD submitted by the bidder shall be forfeited.
- 2.0 The Financial BEC of tender is to be met by bidder on their own.
- 3.0 The Supporting Company shall meet conditions of 'Eligible Bidder', as per clause no. 2 of Section-III (ITB).
- 4.0 The clause 1.10 as below shall be applicable to above supporting company also.

1.9 Apart from above, Bidder must submit all other relevant documents / information as specified in the Scope of Work / SCC for Technical Evaluation of bid or specified elsewhere in the Tender Document, towards proof of its responsiveness.

1.10 PROCUREMENT FROM A BIDDER WHICH SHARES A LAND BORDER WITH INDIA.

1. OM no. 7/10/2021-PPD (1) dated 23.02.2023, Department of Expenditure, Ministry of Finance, Govt. of India refers. The same are available at website <https://doe.gov.in/procurement-policy-divisions>.
2. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. For details of competent authority refer to Annexure I of Order (Public Procurement no. 4) dated 23.02.2023.

Further, any bidder (including bidder from India) having specified Transfer of Technology (ToT) arrangement with an entity from a country which shares a land border with India, shall also require to be registered with the same competent authority.

Further the above will not apply to bidders from those countries (even if sharing a land border with India) to which the Government of India has extended lines of credit or in which the Government of India is engaged in development projects. Updated lists of countries to which lines of credit have been extended or in which development projects are undertaken are given in the website of the Ministry of External Affairs, Govt. of India

3. **"Bidder"** (including the term 'tenderer', 'consultant' 'vendor' or 'service provider' in certain contexts) **for purpose of this provision** means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency, branch or office controlled by such person, participating in a procurement process.

=====

4. "Bidder from a country which shares a land border with India" for the purpose of this:

- a. An entity incorporated, established or registered in such a country; or
- b. A subsidiary of an entity incorporated, established or registered in such a country; or
- c. An entity substantially controlled through entities incorporated, established or registered in such a country; or
- d. An entity whose beneficial owner is situated in such a country; or
- e. An Indian (or other) agent of such an entity; or
- f. A natural person who is a citizen of such a country; or
- g. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above

5. "Beneficial owner" for the purpose of above (4) will be as under:

- i. In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person(s), has a controlling ownership interest or who exercises control through other means.
Explanation—
 - a) "Controlling ownership interest" means ownership of, or entitlement to, more than twenty-five per cent of shares or capital or profits of the company;
 - b) "Control" shall include the right to appoint the majority of the directors or to control the management or policy decisions, including by virtue of their shareholding or management rights or shareholders agreements or voting agreements;
- ii) In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;
- iii) In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;
- iv) Where no natural person is identified under (i) or (ii) or (iii) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;
- v) In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.

6. "Agent" for the purpose of this Order is a person employed to do any act for another, or to represent another in dealings with third persons.

Note:

- (i) A person who procures and supplies finished goods from an entity from a country which shares a land border with India will, regardless of the nature of his legal or

=====

commercial relationship with the producer of the goods, be deemed to be an Agent for the purpose of this Order.

- (ii) However, a bidder who only procures raw material, components etc. from an entity from a country which shares a land border with India and then manufactures or converts them into other goods will not be treated as an Agent.]

7. "Transfer of Technology" means dissemination and transfer of all forms of commercially usable knowledge such as transfer of know-how, skills, technical expertise, designs, processes and procedures, trade secrets, which enables the acquirer of such technology to perform activities using the transferred technology independently. (Matters of interpretation of this term shall be referred to the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade, and the interpretation of the Committee shall be final.).

8. "Specified Transfer of Technology" means a transfer of technology in the sectors and/or technologies specified at Schedule-I, II & 3 of this order.

9. SUBMISSION OF CERTIFICATE IN BIDS:

Bidder shall submit a certificate in this regard as Form-I-A.

For cases falling under the category of Transfer of Technology, Bidder shall submit a certificate in this regard as Form-I-B.

If such certificate given by a bidder whose bid is accepted is found to be false, this would be a ground for immediate rejection of the bid/termination and further action as per "Procedure for Action in case of Corrupt/Fraudulent/ Collusive / Coercive Practices" of tender document.

- 10.** The registration, wherever applicable, should be valid at the time of submission of bids and at the time of acceptance of bids. In respect of supply otherwise than by tender, registration should be valid at the time of placement of order. If the bidder was validly registered at the time of acceptance / placement of order, registration shall not be a relevant consideration during contract execution.

1.11 BID EVALUATION METHODOLOGY:

- i) The price bids of only techno-commercially acceptable bidders shall be opened and will be considered for evaluation.
- ii) A percentage ('above/plus' or 'below/minus') should be quoted in the Bill of Quantity/Price bid uploaded in excel format in the e-tender portal for item with displayed estimate rates.
- iii) If the Percentage is not filled up in the BoQ / Price Bid or is not as per the requirements mentioned in the bidding documents, the bid shall not be considered for evaluation.
- iv) Evaluation of bid shall be carried out on the lowest quote basis i.e., Percentage quoted by the bidder.

- =====
- v)** In case more than one bidder quotes same / equal percentage, then order shall be placed on the bidder having highest turnover in the last audited financial Year.

The awarded item rates will be proportionately changed depending on the quoted percentage.

=====

Form-I-A to Section-II

UNDERTAKING ON LETTERHEAD

To,
M/s Indradhanush Gas Grid Limited (IGGL)

SUB: "HIRING OF AGENCY ON RATE CONTRACT BASIS FOR EXECUTION OF LAST MILE CONNECTIVITY WORKS TO DIFFERENT CGD ENTITIES"

TENDER NO: IGGL/GHY/C&P/LMC/10-25

Dear Sir

We have read the clause regarding Provisions for Procurement from a Bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries; we certify that, bidder M/s _____ (***Name of Bidder***) is:

- (i) Not from such a country []
- (ii) If from such a country, has been registered []
with the Competent Authority.
(Evidence of valid registration by the
Competent Authority shall be attached)

(Bidder is to tick appropriate option (✓) above).

We hereby certify that bidder M/s _____ (***Name of Bidder***) fulfils all requirements in this regard and is eligible to be considered against the tender.

We further certify that bidder M/s _____ (***Name of Bidder***) will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority.

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

UNDERTAKING ON LETTERHEAD

(Applicable in case of Transfer of Technology cases only)

To,
M/s Indradhanush Gas Grid Limited (IGGL)

SUB: "HIRING OF AGENCY ON RATE CONTRACT BASIS FOR EXECUTION OF LAST MILE CONNECTIVITY WORKS TO DIFFERENT CGD ENTITIES"

TENDER NO: IGGL/GHY/C&P/LMC/10-25

Dear Sir

We have read the clause regarding Provisions for Procurement from a Bidder having Transfer of Technology (ToT) arrangement which shares a land border with India, we certify that, bidder M/s_____ (**Name of Bidder**) is:

(i) Does not have ToT with such a country []

(ii) If having ToT from such a country, has been registered []
with the Competent Authority.

(Evidence of valid registration by the
Competent Authority shall be attached)

(Bidder is to tick appropriate option (✓) above).

We hereby certify that bidder M/s_____ (**Name of Bidder**) fulfils all requirements in this regard and is eligible to be considered against the tender.

We further certify that bidder M/s_____ (**Name of Bidder**) will not sub-contract any work to a contractor having such ToT from such countries unless such contractor is registered with the Competent Authority.

Place: [Signature of Authorized Signatory of Bidder]

Date: Name:

Designation:

Seal:

Schedule-I

List of Category-I Sensitive Sectors:

Sr. No.	Sector
(i)	Atomic Energy
(ii)	Broadcasting/ Print and Digital Media
(iii)	Defence
(iv)	Space
(v)	Telecommunications

Schedule-II

List of Category-II Sensitive Sectors:

Sr. No.	Sector
(i)	Power and Energy (including exploration/ generation/ transmission/ distribution/ pipeline)
(ii)	Banking and Finance including Insurance
(iii)	Civil Aviation
(iv)	Construction of ports and dams & river valley projects
(v)	Electronics and Microelectronics
(vi)	Meteorology and Ocean Observation
(vii)	Mining and extraction (including deep sea projects)
(viii)	Railways
(ix)	Pharmaceuticals & Medical Devices
(x)	Agriculture
(xi)	Health
(xii)	Urban transportation

Schedule-3

List of Sensitive Technologies

Sr. No.	Sensitive Technologies
(i)	Additive Manufacturing (e.g. 3D Printing)
(ii)	Any equipment having electronic programmable components or autonomous systems (e.g. SCADA systems)
(iii)	Any technology used for uploading and streaming of data including broadcasting, satellite communication etc.
(iv)	Chemical Technologies
(v)	Biotechnologies including Genetic Engineering and Biological Technologies
(vi)	Information and Communication Technologies
(vii)	Software

=====

Appendix-A1 to Section II

FORMAT OF AGREEMENT TO BE EXECUTED BETWEEN BIDDER AND THEIR FOREIGN BASED SUPPORTING COMPANY ON INDIAN NON-JUDICIAL STAMP PAPER OF REQUISITE VALUE DULY NOTARIZED.

This agreement made this ____ day of ____ month ____ year by and between M/s. _____ (Fill in Bidder's full name, constitution and registered office address) _____ hereinafter referred to as bidder on the first part and M/s. _____ (Fill in full name, constitution and registered office address company which hold more than fifty percent of the paid up share capital of the bidding company or vice versa) hereinafter referred to as "Supporting Company" of the second part.

Whereas

M/s. Indradhanush Gas Grid Limited (hereinafter referred to as IGGL) has invited offers vide their tender No. _____ for _____ and M/s. _____ (Bidder) intends to bid against the said tender and desires to have technical support of M/s. _____ [Supporting Company]

And whereas Supporting Company represents that they have gone through and understood the requirements of the subject tender and are capable and committed to provide the services as required by the bidder for successful execution of the contract, if awarded to the bidder.

Now, it is hereby agreed to by and between the parties as follows:

- a) M/s. _____ (Bidder) will submit an offer to IGGL for the full scope of work as envisaged in the tender document as a main bidder and liaise IGGL directly for any clarifications etc. in this context.
- b) M/s. _____ [Supporting Company] undertakes to provide technical support and expertise, expert manpower and project management including financial support, if so required, to the bidder to discharge its obligations as per the Scope of Work of the tender / Contract for which offer has been made by the bidder and accepted the IGGL.
- c) The Bidder/ Supporting Company holds more than 50% paid up equity capital of the Supporting Company/ Bidder.
- d) This agreement will remain valid till validity of bidder's offer to IGGL including extension if any and till satisfactory performance of the contract, the same is awarded by IGGL to the bidder.

- =====
- e) Supporting Company undertakes that this agreement shall remain enforceable even if their stake in Bidder is diminished during the execution of works under the contract between the Bidder and IGGL.
 - f) The bidder shall have the overall responsibility of satisfactory execution of the contract awarded by IGGL, however without prejudice to any rights that IGGL might have against the Supporting Company
 - g) It is further agreed that, if contract pursuant to Supporting Company shall be jointly and severely responsible to IGGL for the performance of works during contract period and for the satisfactory execution of the contract, and for all the consequences for non-performance thereof.

In witness whereof the parties hereto have executed this agreement on the date mentioned above.

For and on behalf of
(Bidder)
M/s.

For and on behalf of
(Supporting Company)
M/s.

Witness:

- 1)
- 2)

Witness:

- 1)
- 2)

=====

Appendix-A2 to Section II

GUARANTEE BY THE FOREIGN BASED SUPPORTING COMPANY/ GUARANTOR
(to be executed on plain paper)

THIS DEED OF GUARANTEE executed at this day of by M/s (mention complete name) a company duly established and existing under the laws of (insert country), having its Registered Office at hereinafter called "the Guarantor and/ or the Supporting Company" which expression shall, unless excluded by or repugnant to the subject or context thereof, be deemed to include its successors and permitted assignees.

FOR

M/s (bidder) a company duly established and existing under the laws of (insert country), having its Registered Office at hereinafter called the "Bidder" which expression shall, unless excluded by or repugnant to the subject or context thereof, be deemed to include its successors and permitted assignees.

TOWARDS

M/s Indradhanush Gas Grid Limited, a company duly registered under the law of India having its Registered Office at 7th Floor, 122A, NRL Centre, Christian Basti, G S Road, Guwahati, Assam-781005, India, and having Purchase center at hereinafter called "IGGL" which expression shall unless excluded by or repugnant to the context thereof, be deemed to include its successor and assignees

WHEREAS IGGL has invited tender number for on, and the bidder has submitted it bid number..... in response to the above mentioned tender invited by IGGL.

AND WHEREAS the bidder/ Guarantor Company holds more than 50% paid up equity capital of the Supporting Company/ Bidder.

AND WHEREAS one of the condition for acceptance of Bidder's bid against said tender is that in case the bidder is seeking to qualify upon the technical credentials of its Guarantor Company, then the bidder shall arrange a guarantee from its Guarantor Company guaranteeing due and satisfactory performance of the work covered under the said tender including any change therein as may be deemed appropriate by the IGGL at any stage.

The Guarantor represents that they have gone through and understood the requirement of the above said tender and are capable of and committed to provide technical and such

=====

other supports as may be required by the Bidder for successful execution of the same.

The Bidder and the Guarantor have entered into an agreement dated as per which the Guarantor shall be providing technical, financial and such other supports as may be necessary for performance of the work under the tender, if the contract is awarded to the Bidder.

Accordingly, at the request of the Bidder and in consideration of and as a requirement for the IGGL to enter into agreement(s) with the Bidder, the Guarantor hereby guarantees and undertakes that upon award of Contract to Bidder against bid number, made by the Bidder under tender number.....:

1. The Guarantor unconditionally agrees that in case of non-performance by the Bidder of any of its obligations in any respect, the Guarantor shall, immediately on receipt of notice of demand by the IGGL, take up the job without any demur or objection, in continuation and without loss of time and without any cost to the IGGL and duly perform the obligations of the Bidder to the satisfaction of the IGGL.
2. The Guarantor agrees that the Guarantee contained herein shall remain valid till the satisfactory execution and completion of the work (including discharge of the warranty obligations) awarded to the Bidder.
3. The Guarantor shall be jointly and severally responsible to IGGL for satisfactory performance of works during contract period and for the satisfactory execution of the contract, and for all consequences for non-performance thereof.
4. The liability of the Guarantor, under the Guarantee, is limited of the Bidder for non-performance under the contract entered between IGGL and the Bidder. This will, however, be in addition to the forfeiture of the Performance and Advance Guarantees furnished by the Bidder.
5. The Guarantor agrees to execute a Corporate Guarantee in favour of IGGL, guaranteeing the performance of obligations by the Bidder, in case the Contract is awarded to the Bidder by IGGL.
6. The Guarantor represents that this Guarantee has been issued after due observance of the appropriate laws in force in India. The Guarantor hereby undertakes that the Guarantor shall obtain and maintain in full force and effect all the governmental and other approvals and consents that are necessary and do all other acts and things necessary or desirable in connection therewith or for the due performance of the Guarantor's obligations towards IGGL.
7. Any dispute arising out of or in connection with this contract, including any question regarding its existence, validity or termination, shall be referred to and finally resolved by arbitration. It is further agreed that Claims by and against the Guarantor, the Bidder and IGGL under the different contract to be

=====

entered pursuant to their relationship can be brought under a single reference and there shall be no bar on the consolidation of such proceedings before the same arbitral tribunal. The governing law shall be the laws of India and seat of arbitration shall be Guwahati, Assam, India. The language of arbitration shall be English.

8. The Guarantor hereby declares and represents that this Guarantee has been given without any undue influence or coercion, and that the Guarantor has fully understood the implications of the same.
9. In case of award of contract to the bidder, the Guarantor shall provide Performance Bank Security to IGGL, equivalent to 50% of the value of Performance Bank Security to be submitted by the bidding company, in the prescribed format within 15 days from the date of Fax of Acceptance, as guarantee for performance by the bidder/Supplier. The Guarantor hereby expressly agrees that if in the opinion of IGGL, the Bidder / Supplier has failed to perform its obligations under the contract in any manner, IGGL shall have unfettered right to invoke the said Bank guarantee. The guarantor hereby agrees that decision of IGGL about performance of the bidder/Supplier shall be final and shall not be questioned by the Guarantor. Guarantor shall have no objection to invocation of the Performance Bank Guarantee submitted by the Guarantor

OR

(applicable, subject to meeting the conditions stipulated in BEC in respect of additional Performance Bank Security)

In case of award of contract to the bidder, the bidder on behalf of the Guarantor shall provide additional Performance Bank Security to IGGL, equivalent to 50% of the value of Performance bank Security to be submitted by the bidding company, in the prescribed format within 15 days from the date of Fax of Acceptance, as guarantee for performance by the bidder/Supplier. The Guarantor hereby expressly agrees that if in the opinion of IGGL, the Bidder / Supplier has failed to perform its obligations under the contract in any manner, IGGL shall have unfettered right to invoke the said Bank guarantee. The Guarantor hereby agrees that decision of IGGL about performance of the bidder / Supplier shall be final and shall not be questioned by the Guarantor. Guarantor shall have no objection to invocation of the Performance Bank Security submitted by the Bidder on behalf The Guarantor represents and confirms that the Guarantor has the legal capacity, power and authority to issue this Guarantee and that giving of this Guarantee and the performance and observations of the obligations hereunder do not contravene any existing laws.

(Strike through the clause whichever is not applicable)

- =====
10. The Guarantor represents and confirms that the Guarantor has the legal capacity, power and authority to issue this Guarantee and that giving of this Guarantee and the performance and observations of the obligations hereunder do not contravene any existing laws.

For & on behalf of (Supporting Company)

M/s _____

Signature_____

Name_____

Designation _____

official seal_____

Witness:

1.Signature_____

Full Name _____

Address_____

2.Signature_____

Full Name _____

Address_____

INSTRUCTIONS FOR FURNISHING GUARANTEE

1. The official(s) executing the guarantee should affix full signature(s) on each page.
2. Resolution passed by Board of Directors of the guarantor company authorizing the signatory(ies) to execute the guarantee, duly certified by Company Secretary should be furnished along with Guarantee

=====

Appendix-A2A to Section II

CERTIFICATE ISSUED BY COMPANY SECRETARY OF THE GUARANTOR COMPANY

"Obligations contained in deed of guarantee No. _____ furnished against tender No. _____ are enforceable against the Guarantor Company and the same do not, in any way, contravene any law of the country of which the Guarantor Company is the subject."

The above certificate should be enclosed along with the Guarantee

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, Indradhanush Gas Grid Limited _____	Bank Guarantee No.	
	Date of BG	
	BG Valid up to (Expiry date)	
	Claim period up to (indicate date of expiry of claim period which includes minimum three months from the expiry date)	
	Stamp Sl. No./e-Stamp Certificate No.	

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 Indradhanush Gas Grid Limited having registered office at 7TH Floor, 122A, NRL Centre, Christian Basti, G S Road, Guwahati, Assam-781005 (herein after called the "IGGL" 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 IGGL and the SUPPLIER and IGGL having agreed that the 'SUPPORTING COMPANY' shall furnish to IGGL 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.

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 IGGL 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 IGGL 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 IGGL 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 IGGL may have in relation to the 'SUPPORTING COMPANY's liabilities.
4. The Bank further agrees that IGGL 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 IGGL 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 IGGL or any indulgence by IGGL 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 IGGL under or by virtue of this CONTRACT have been fully paid and its claim satisfied or discharged or till IGGL 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 IGGL 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) _____ 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 IGGL 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 Guwahati.
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 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.

4. **THE BANK GUARANTEE ISSUED BY THE BANK MUST BE ROUTED THROUGH SFMS PLATFORM AS PER FOLLOWING DETAILS:**

"BG issuance message (IFN 760 / IFN760COV For issuance of BG and IFN 767 / IFN 767 COV FOR Amendment of BG) is to be transmitted through SFMS to beneficiary's bank as below:

Name of Bank : Axis Bank
Branch : Guwahati
Branch Address : Chhibber House, Ground Floor, G.S Road, Guwahati -781005
IFSC : UTIB0000140
SWIFT Code : AXISINBB140

The issuing bank while issuing/amending the BG, should ensure that the below information is correctly captured in the message i.e., IFN 760 / IFN 760COV / IFN 767/ IFN 767COV:

Field Number	Particulars
7037	IGGL938956645

NOTE: THE BANK GUARANTEE ISSUED BY THE BANK MUST BE ROUTED THROUGH SFMS PLATFORM AS PER FOLLOWING DETAILS:

- (i) IFN 760 / IFN 760COV FOR ISSUANCE OF BANK GUARANTEE
- (ii) IFN 767 / IFN 767 COV FOR AMENDMENT OF BANK GUARANTEE
- (iii) THE ABOVE MESSAGE / INTIMATION SHALL BE SENT THROUGH SFMS BY THE BG ISSUING BANK TO AXIS BANK, GUWAHATI BRANCH, IFS CODE – UTIB0000140; BRANCH ADDRESS: Axis Bank, Chhibber House, Ground Floor, G.S Road, Guwahati -781005
- (iv) THE SUPPLIER SHALL SUBMIT TO IGGL THE COPY OF SFMS MESSAGE AS SENT BY THE ISSUING BANK ALONG WITH THE ORIGINAL BANK GUARANTEE

=====

**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	:	NAME			
			VENDOR CODE			
3	BANK GUARANTEE AMOUNT	:				
4	PURCHASE ORDER/ LOA NO	:				
5	NATURE OF BANK GUARANTEE	:				
	(Please Tick (√) whichever is Applicable		PERFORMANCE BANK GUARANTEE	SECURITY DEPOSIT	EMD	ADVANCE
6	BG ISSUED BANK DETAILS					
(A)		EMAIL ID:				
(B)		ADDRESS:				
(C)		PHONE NO.:				

=====

SECTION -III

INSTRUCTION TO BIDDERS

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

=====

SECTION-III

INSTRUCTION TO BIDDERS

INDEX

[A] GENERAL:

1. SCOPE OF BID
2. ELIGIBLE BIDDERS
3. BIDS FROM CONSORTIUM
4. ONE BID PER BIDDER
5. COST OF BIDDING
6. SITE-VISIT

[B] BIDDING DOCUMENTS:

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

[C] PREPARATION OF BIDS:

10. LANGUAGE OF BID
11. DOCUMENTS COMPRISING THE BID
12. SCHEDULE OF RATES / BID PRICES
13. GST (CGST & SGST/ UTGST or IGST)
14. BID CURRENCIES
15. BID VALIDITY
16. EARNEST MONEY DEPOSIT (EMD)/ BID SECURITY
17. PRE-BID MEETING
18. FORMAT AND SIGNING OF BID
19. ZERO DEVIATION & REJECTION CRITERIA
20. E-PAYMENT

[D] SUBMISSION OF BIDS:

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

[E] BID OPENING AND EVALUATION:

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

=====

33. COMPENSATION FOR EXTENDED STAY

34. PURCHASE PREFERENCE

[F] AWARD OF CONTRACT:

35. AWARD

36. NOTIFICATION OF AWARD / FAX OF ACCEPTANCE [FOA]

37. SIGNING OF AGREEMENT

38. CONTRACT PERFORMANCE SECURITY / SECURITY DEPOSIT

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

40. PUBLIC PROCUREMENT POLICY FOR MICRO AND SMALL ENTERPRISE

41. AHR ITEMS

42. VENDOR EVALUATION PROCEDURE

43. INCOME TAX & CORPORATE TAX

44. DISPUTE RESOLUTION MECHANISM

45. DISPUTES BETWEEN CPSE'S/GOVERNMENT DEPARTMENT'S/ ORGANIZATIONS

46. INAM-PRO (PLATFORM FOR INFRASTRUCTURE AND MATERIALS PROVIDERS)

47. PROMOTION OF PAYMENT THROUGH CARDS AND DIGITAL MEANS

48. CONTRACTOR TO ENGAGE CONTRACT MANPOWER BELONGING TO SCHEDULED CASTES AND WEAKER SECTIONS OF THE SOCIETY.

49. PROVISION FOR STARTUPS

50. PROVISION REGARDING INVOICE FOR REDUCED VALUE OR CREDIT NOTE TOWARDS PRS

51. UNIQUE DOCUMENT IDENTIFICATION NUMBER BY PRACTICING CHARTERED ACCOUNTANTS

52. DOCUMENTS FOR PAYMENT

53. SUB-LETTING OF WORKS

54. RESTRICTING PARTICIPATION OF NCLT REFERRED BIDDERS

[G] ANNEXURES:

1. ANNEXURE-I: ADDENDUM TO INSTRUCTIONS TO BIDDERS (INSTRUCTION FOR PARTICIPATION IN E-TENDER)

2. ANNEXURE-II: BIDDING DATA SHEET (BDS)

3. ANNEXURE-III: POLICY FOR PURCHASE PREFERENCE TO PUBLIC PROCUREMENT (PREFERENCE TO MAKE IN INDIA (PPP-MII)

4. ANNEXURE-IV: PROCEDURE FOR ACTION IN CASE CORRUPT/FRAUDULENT/COLLUSIVE/COERCIVE PRACTICES

5. ANNEXURE-V: PROCEDURE FOR EVALUATION OF PERFORMANCE OF VENDORS/ SUPPLIERS/ CONTRACTORS/ CONSULTANTS

=====

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

[A] – GENERAL

1 SCOPE OF BID

- 1.1 The Employer as defined in the "General Conditions of Contract [GCC]", wishes to receive Bids as described in the Bidding Document/Tender document issued by Employer. Employer/Owner/IGGL occurring herein under shall be considered synonymous.
- 1.2 **SCOPE OF BID:** The scope of work/ Services shall be as defined in the Bidding/Tender documents.
- 1.3 The successful bidder will be expected to complete the scope of Bid within the period stated in Special Conditions of Contract.
- 1.4 Throughout the Bidding Documents, the terms 'Bid', 'Tender' & 'Offer' and their derivatives [Bidder/Tender, Bid/Tender/Offer etc.] are synonymous. Further, 'Day' means 'Calendar Day' and 'Singular' also means 'Plural'.

2 ELIGIBLE BIDDERS:

- 2.1 The Bidder shall not be under a declaration of ineligibility by Employer for Corrupt/ Fraudulent/ Collusive/ Coercive practices, as defined in "Instructions to Bidders [ITB], Clause No. 39" (Action in case Corrupt/ Fraudulent/ Collusive/ Coercive Practices).
- 2.2 The Bidder is not put on Holiday by IGGL or Public Sector Project Management Consultant (like EIL, Mecon only due to "poor performance" or "corrupt and fraudulent practices") or banned/blacklisted by Government department/ Public Sector on due date of submission of bid. Further, neither bidder 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 IGGL or the Ministry of Petroleum and Natural Gas.

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

In case there is any change in status of the declaration prior to award of contract, the same has to be promptly informed to IGGL by the bidder.

It shall be the sole responsibility of the bidder to inform IGGL about their status regarding para 1 of clause 2.2 herein above on the due date of submission of bid and during the course of finalization of the tender. Concealment of the facts shall

tantamount to misrepresentation of facts and shall lead to action against such Bidders as per clause 39 of ITB.

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

In case there is any change in status of the declaration prior to award of contract, the same has to be promptly informed to IGGL by the bidder.

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

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

- (i) that has provided consulting services related to the work to the Employer during the preparatory stages of the work or of the project of which the works/services forms a part of or
- (ii) that has been hired (proposed to be hired) by the Employer as an Engineer/ Consultant for the contract.

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

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

- 2.7 **Power of Attorney:**

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

The Power of Attorney shall be issued as per the constitution of the bidder as below:

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

- =====
- The Power of Attorney should be valid till award of contract / order to successful Bidder.
- 2.8 In case of change of constitution of bidder after submission of bid, the same shall be informed by the bidder to IGGL promptly. Failure to same shall be considered as misrepresentation by the bidder.
3. **BIDS FROM "JOINT VENTURE"/"CONSORTIUM": NOT APPLICABLE** (REFER BIDDING DATA SHEET (BDS))
4. **ONE BID PER BIDDER:**
- 4.1 A Bidder shall submit only 'one [01] Bid' in the same Bidding Process either as single entity or as a member of any consortium (wherever consortium bid is allowed). A Bidder who submits or participates in more than 'one [01] Bid' will cause all the proposals in which the Bidder has participated to be disqualified.
- 4.2 A bidder shall not have conflict of interest with other bidders. Such conflict of interest can lead to anti-competitive practices. The bidder found to have a conflict of interest shall be disqualified. A bidder shall be considered to have a conflict of interest with one or more bidders in this bidding process, if:
- a) they have controlling partner (s) in common; or
 - b) they receive or have received any direct or indirect subsidy/ financial stake from any of them; or
 - c) they have the same legal representative/authorized signatory/agent for purposes of this bid; or
 - d) they have relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another Bidder; or
 - e) Bidder participates in more than one bid in bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all bids in which the parties are involved. However, this does not limit the inclusion of the components/ sub-assembly/Assemblies from one bidding manufacturer in more than one bid.
 - f) a Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the contract that is the subject of the Bid;
 - g) In case of a holding company having more than one independently manufacturing units, or more than one unit having common business ownership/management, only one unit should quote. Similar restrictions would apply to closely related sister companies. Bidders must proactively declare such sister/ common business/ management units in same/ similar line of business.

Bidders are required to submit a confirmation for no conflict of interest with other bidders in Format F-5.

Failure to comply this clause during tendering process will disqualify all such bidders from process of evaluation of bids.

=====

4.3 Alternative Bids shall not be considered.

4.4 The provisions mentioned at Sl. no. 4.1 and 4.2 shall not be applicable wherein bidders are quoting for different Items / Sections / Parts / Groups/ SOR items of the same tender which specifies evaluation on Items / Sections / Parts / Groups/ SOR items basis.

5. **COST OF BIDDING:**

The Bidder shall bear all costs associated with the preparation and submission of the Bid including but not limited to Documentation Charges, Bank charges, all courier charges, translation charges, authentication charges and any associated charges including taxes & duties thereon. Further, IGGL will in no case, be responsible or liable for these costs, regardless of the outcome of the bidding process.

6. **SITE VISIT:**

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

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

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

=====

[B] – BIDDING DOCUMENTS

7 CONTENTS OF BIDDING DOCUMENTS

7.1 The contents of Bidding Documents / Tender Documents are those stated below, and should be read in conjunction with any 'Addendum / Corrigendum' issued in accordance with "ITB: Clause-8 & 9":

- Section-I: Invitation for Bid [IFB]*
- Section-II: BID EVALUATION CRITERIA [BEC] & Evaluation methodology
- Section-III: Instructions to Bidders [ITB], Annexures
- Section-IV: General Conditions of Contract [GCC]
- Section-V: Forms & Format
- Section-VI: Special Conditions of Contract [SCC], Scope of Work
- Section-VII: Schedule of Rates
- Section-VIII: Attachments

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

For participation in e-tender, instructions are mentioned at Annexure-I to Section-III

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

8. CLARIFICATION OF BIDDING DOCUMENTS:

- 8.1 A prospective Bidder requiring any clarification(s) of the Bidding Documents may notify IGGL in writing or by fax or email at IGGL's mailing address indicated in the BDS no later than 02 (two) days prior to pre-bid meeting (in cases where pre-bid meeting is scheduled) or 05 (five) days prior to the due date of submission of bid in cases where pre-bid meeting is not held. IGGL reserves the right to ignore the bidders request for clarification if received after the aforesaid period. IGGL may respond in writing to the request for clarification. IGGL's response including an explanation of the query, but without identifying the source of the query will be uploaded on IGGL's e-tendering web site [<https://etenders.gov.in>] / communicated to prospective bidders by e-mail.
- 8.2 Any clarification or information required by the Bidder but same not received by the Employer at clause 8.1 (refer BDS for address) above is liable to be considered as "no clarification / information required".

=====

9. AMENDMENT OF BIDDING DOCUMENTS:

- 9.1 At any time prior to the 'Bid Due Date', Owner may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the Bidding Documents by addenda/ corrigendum.
- 9.2 Any addendum/ corrigendum thus issued shall be integral part of the Tender Document and shall be hosted on the websites as provided at clause no. 2.0 (G) of IFB /communicated to prospective bidders by e-mail/ fax. Bidders have to take into account all such addendum/ corrigendum before submitting their Bid.
- 9.3 The Employer, if consider necessary, may extend the Bid Due Date in order to allow the Bidders a reasonable time to furnish their most competitive bid taking into account the addenda/corrigendum issued thereof.

[C] – PREPARATION OF BIDS

10 LANGUAGES OF BID:

The bid prepared by the Bidder and all correspondence, drawing(s), document(s), certificate(s) etc. relating to the Bid exchanged by Bidder and IGGL shall be written in English language only. In case a document, certificate, printed literature etc. furnished by the Bidder in in a language other than English, the same should be accompanied by an English translation duly authenticated by the Chamber of Commerce of Bidders Country, in which case, for the purpose of interpretation of the Bid, the English translation shall govern.

11. DOCUMENTS COMPRISING THE BID:

11.1 IN CASE OF MANUAL TENDERING:

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

- 11.1.1 **ENVELOPE-I: "TECHNO-COMMERCIAL/UN-PRICED BID"** shall contain the following:
- (a) 'Covering Letter' on Bidder's 'Letterhead' clearly specifying the enclosed contents.
 - (b) 'Bidder's General Information', as per 'Form F-1'.
 - (c) Copies of documents, as specified in tender document.
 - (d) Copy of Schedule of Rate (SOR) with prices blanked out mentioning quoted / not quoted (as applicable) written against each item as a confirmation that the prices are quoted in requisite format.
 - (e) 'Letter of Authority' on the Letter Head, as per 'Form F-3'
 - (f) 'Agreed Terms and Conditions', as per 'Form F-5'.
 - (g) 'ACKNOWLEDGEMENT CUM CONSENT LETTER', as per 'Form F-6'
 - (h) Duly attested documents in accordance with the "BID EVALUATION CRITERIA [BEC]" establishing the qualification.

- =====
- (i) Copy of Power of Attorney /copy of Board Resolution, in favour of the authorized signatory of the Bid, as per clause no.2.7 of ITB
 - (j) EMD in original (in case of manual tendering) / copy of EMD (in case of e-Tender), Declaration for Bid Security in original as per provision of ITB.
 - (k) Undertaking as per Form-1 to Annexure-III to Section-III by MSE bidders and Bidders seeking preference under Policy for purchase preference to Public Procurement (Preference to make in India, PPP-MII), if applicable.
 - (l) Undertaking as per Form-2 to Annexure-III 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-III to Section-III.
 - (m) Undertaking as per Form-I to Section-II regarding Provisions for Procurement from a Bidder which shares a land border with India
 - (n) All forms and Formats including Annexures.
 - (o) 'Integrity Pact' as per prescribed Form
 - (p) Tender Document, its Corrigendum/Amendment/Clarification(s) duly signed on each page (in case of manual tendering)/ digitally signed (in case of e-Tender) by the Authorized Signatory holding POA.
 - (q) Additional document specified in BDS, SCC, Scope of Supply or mentioned elsewhere in the Tender Document, its Corrigendum/Amendment/Clarification(s).
 - (r) Any other information/details required as per Bidding Document.

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

11.1.2 ENVELOPE-II: Price Bid

- i) The Prices are to be submitted strictly as per the Schedule of Rate of the bidding documents. IGGL shall not be responsible for any failure on the part of the bidder to follow the instructions.
- ii) Bidders are advised NOT to mention Rebate/Discount separately, either in the SOR format or anywhere else in the offer. In case Bidder(s) intend to offer any Rebate/Discount, they should include the same in the item rate(s) itself under the "Schedule of Rates (SOR)" and indicate the discounted unit rate(s) only.
- iii) If any unconditional rebate has been offered in the quoted rate the same shall be considered in arriving at evaluated price. However, no cognizance shall be taken for any conditional discount for the purpose of evaluation of the bids.
- iv) In case, it is observed that any of the bidder(s) has/have offered suo-moto Discount/Rebate after opening of unpriced bid but before opening of price bids such discount /rebate(s) shall not be considered for evaluation. However, in the event of the bidder emerging as the lowest evaluated bidder without considering the discount/rebate(s), then such discount/rebate(s) offered by

=====

the bidder shall be considered for Award of Work and the same will be conclusive and binding on the bidder.

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

11.1.3 In case of bids invited under Single Bid System (clause no. 2.0(C) of IFB refers), all the documents as specified at Clause 11.1.1 & 11.1.2 of ITB can be submitted in single envelope/folder, as per instructions of Tender Document

11.2 IN CASE OF E-TENDERING:

Bidders are requested to refer instructions for participating in E-Tendering (Annexure-I to Section III) and the ready reckoner for bidders available in <https://etenders.gov.in>. Bids submitted manually shall be rejected. All pages of the Bid must be digitally signed by the "authorized signatory" of the Bidder holding Power of Attorney. The bid must be submitted on the E-tendering website (<https://etenders.gov.in>) as follows: -

11.2.1 **PART-I: "TECHNO-COMMERCIAL/UN-PRICED BID"** comprising all the above documents mentioned at 11.1.1 along with copy of EMD/Bid Bond/Bid Security/Declaration of Bid Security, copy of Power of Attorney should be uploaded along with the technical bid.

Further, Bidders must submit the original "EMD (if applicable), Power of Attorney, Integrity Pact, Line of Credit (if applicable) and any other documents specified in the Tender Document to the address mentioned in IFB, in a sealed envelope, super scribing the details of Tender Document (i.e. tender number & tender for) within 07 days from the date of un-priced bid opening.

Bidders are required to submit the EMD (if applicable) in original by Due Date and Time of Bid Submission or upload a scanned copy of the same in the Part-I of the Bid. If the Bidder is unable to submit EMD in original by Due Date and Time of Bid Submission, the Bidder is required to upload a scanned copy of the EMD in Part-I of Bid, provided the original EMD, copy of which has been uploaded, is received within 07 days from the Due Date of Bid Opening, failing which the Bid will be rejected irrespective of their status/ranking in tendering process and notwithstanding the fact that a copy of EMD was earlier uploaded by the Bidder.

=====

11.2.2 PART-II: PRICE BID

The Prices are to be filled strictly in the Schedule of Rate of the bidding documents and provision mentioned at para 11.1.2 herein above and to uploaded in Financial Bid in the e-tender portal.

11.2.3 Bidder shall download the Price Schedule / Schedule of Rates (SOR) which is uploaded on website as an excel attachment. Bidder shall submit Price Schedule / Schedule of Rates (SOR) duly filled in and e-signed strictly as per format without altering the content of it. The duly filled Price Schedule / Schedule of Rates (SOR) shall be uploaded by bidder on web site as per e-tendering procedure.

12 SCHEDULE OF RATES / BID PRICES

- 12.1 Unless stated otherwise in the Bidding Documents, the Contract shall be for the whole works as described in Bidding Documents, based on the rates and prices submitted by the Bidder and accepted by the Employer. The prices quoted by the Bidders will be inclusive of all taxes except **GST (CGST & SGST/UTGST or IGST)**.
- 12.2 Prices must be filled in format for "Schedule of Rates [SOR]" enclosed as part of Tender document. If quoted in separate typed sheets and any variation in item description, unit or quantity is noticed; the Bid is liable to be rejected.
- 12.3 Bidder shall quote for all the items of "SOR" after careful analysis of cost involved for the performance of the completed item considering all parts of the Bidding Document. In case any activity though specifically not covered in description of item under "SOR" but is required to complete the works as per Specifications, Scope of Work / Service, Standards, General Conditions of Contract ("GCC"), Special Conditions of Contract ("SCC") or any other part of Bidding Document, the prices quoted shall deemed to be inclusive of cost incurred for such activity.
- 12.4 All duties, taxes and other levies [if any] payable by the Contractor under the Contract, or for any other cause except final **GST (CGST & SGST/ UTGST or IGST)** shall be included in the rates / prices and the total bid-price submitted by the Bidder. Applicable rate of **GST (CGST & SGST/ UTGST or IGST)** on the contract value shall be indicated in Agreed Terms & Conditions (Format-F-5).
- 12.5 Prices quoted by the Bidder, shall remain firm and fixed and valid till completion of the Contract and will not be subject to variation on any account, unless any price escalation/variation is allowed elsewhere in the Tender Document
- 12.6 The Bidder shall quote the prices in 'figures' & words. There should not be any discrepancy between the prices indicated in figures and the price indicated in words. In case of any discrepancy, the same shall be dealt as per clause no. 30 of ITB.

=====

12.7 Bidder shall also mention the Service Accounting Codes (SAC) / Harmonized System of Nomenclature (HSN) at Agreed Terms & Conditions (Format-F-5).

13. GST (CGST & SGST/ UTGST or IGST)

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

13.2 Quoted prices should be inclusive of all taxes and duties, except **GST (CGST & SGST or IGST or UTGST)**. Please note that the responsibility of payment of **GST (CGST & SGST or IGST or UTGST)** lies with the Contractor only. Contractor providing taxable service shall issue an e-Invoice/Invoice/ Bill, as the case may be as per rules/ regulation of GST. Further, returns and details required to be filled under GST laws & rules should be timely filed by Service Provider with requisite details.

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

13.3 In case CBIC (Central Board of Indirect Taxes and Customs)/ any tax authority / any equivalent government agency brings to the notice of IGGL that the Contractor has not remitted the amount towards GST (CGST & SGST/UTGST or IGST) collected from IGGL to the government exchequer, then, that Contractor shall be put under Holiday list of IGGL for period of six months after following the due procedure. This action will be in addition to the right of recovery of financial implication arising on IGGL

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

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

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

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

- =====
- 13.5 Where IGGL is entitled to avail the input tax credit of **GST (CGST & SGST/UTGST or IGST)**:
- 13.5.1 Owner/ IGGL will reimburse the **GST (CGST & SGST/UTGST or IGST)** to the Contractor at actuals against submission of E-Invoices/Invoices as per format specified in rules/ regulation of GST to enable Owner/ IGGL to claim input tax credit of **GST (CGST & SGST/UTGST or IGST)** paid. In case of any variation in the executed quantities, the amount on which the **GST (CGST & SGST/UTGST or IGST)** is applicable shall be modified in same proportion. Returns and details required to be filled under GST laws & rules should be timely filed by supplier with requisite details.
- 13.5.2 The input tax credit of quoted **GST (CGST & SGST/UTGST or IGST)** shall be considered for evaluation of bids, as per evaluation criteria of tender document.
- 13.6 Where IGGL is not entitled to avail/take the full input tax credit of **GST (CGST & SGST/UTGST or IGST)**:-
- 13.6.1 Owner/ IGGL will reimburse **GST (CGST & SGST/UTGST or IGST)** to the Contractor at actuals against submission of E-Invoices/Invoices as per format specified in rules/ regulation of GST subject to the ceiling amount of **GST (CGST & SGST/UTGST or IGST)** as quoted by the bidder, subject to any statutory variations, except variations arising due to change in turnover. In case of any variation in the executed quantities (If directed and/or certified by the Engineer-In-Charge) the ceiling amount on which **GST (CGST & SGST/UTGST or IGST)** is applicable will be modified on pro-rata basis.
- 13.6.2 The bids will be evaluated based on total price including quoted **GST (CGST & SGST/UTGST or IGST)**.
- 13.7 IGGL will prefer to deal with registered supplier of goods/ services under GST. Therefore, bidders are requested to get themselves registered under GST, it not registered yet.
However, in case any unregistered bidder is submitting their bid, their prices will be loaded with applicable **GST (CGST & SGST/UTGST or IGST)** while evaluation of bid (if applicable as per Govt. Act/ Law in vogue). Where IGGL is entitled for input credit of **GST (CGST & SGST/UTGST or IGST)**, the same will be considered for evaluation of bid as per evaluation methodology of tender document. Further, an unregistered bidder is required to mention its Income Tax PAN in bid document. Further, an unregistered bidder is required to mention its Income Tax PAN in bid document.
- 13.8 In case IGGL is required to pay entire/certain portion of applicable **GST (CGST & SGST/UTGST or IGST)** and remaining portion, if any, is to be deposited by Bidder directly as per **GST (CGST & SGST/UTGST or IGST)** laws, entire applicable rate/amount of **GST (CGST & SGST/UTGST or IGST)** to be indicated by bidder in the SOR.

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

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

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

13.10 Anti-profiteering clause:

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

- 13.11 In case the GST rating of contractor on the GST portal / Govt. official website is negative / blacklisted, then the bids may be rejected by IGGL. Further, in case rating of bidder is negative / blacklisted after award of work, then IGGL shall not be obligated or liable to pay or reimburse GST to such vendor and shall also be entitled to deduct / recover such GST along with all penalties / interest, if any, incurred by IGGL.

- 13.12 GST as quoted by the bidder, shall be deemed as final and binding for the purpose of bid evaluation (applicable for tenders where bidder quote the GST rates). In case a bidder enters "zero/blank" GST or an erroneous GST, the bid evaluation for finalizing the L1 bidder will be done considering the quoted GST rates. No request for change in GST will be entertained after submission of bids.

In case where a successful bidder quotes a wrong GST rate, for releasing the order, the following methodology will be followed:

- =====
- In case the actual GST rate applicable is lower than the quoted GST rate, the actual GST rate will be added to the quoted basic prices. The final cash outflow will be based on actual GST rate.
 - In case the actual GST rate applicable is more than the quoted GST rate, the basic prices quoted will be reduced proportionately, keeping the final cash outflow the same as the overall quoted amount.

Based on the total cash outflow calculated as above, IGGL shall place orders.

13.13 Wherever TDS under GST Laws has been deducted from the invoices raised / payments made to the Contractors, as per the provisions of the GST law / Rules, Contractors should accept the corresponding GST-TDS amount populated in the relevant screen on GST common portal (www.gst.gov.in). Further, Vendors should also download the GST TDS certificate from GST common portal (reference path: Services > User Services > View/Download Certificates option).

13.14 Provision w.r.t. E- Invoicing requirement as per GST laws:

Supplier who is required to comply with the requirements of E-invoice for B2B transactions as per the requirement of GST Law will ensure the compliance of requirement of E Invoicing under GST law. If the invoice issued without following this process, such invoice can-not be processed for payment by IGGL as no ITC is allowed on such invoices.

Therefore, all the payments to such supplier who is liable to comply with e-invoice as per GST Laws shall be made against the proper e-invoice(s) only. Further, returns and details required to be filled under GST laws & rules against such e-invoices should be timely filed by Supplier of Goods with requisite details.

If input tax credit is not available to IGGL for any reason attributable to supplier (both for E-invoicing cases and non-E-invoicing cases), then IGGL shall not be obligated or liable to pay or reimburse GST (CGST & SGST/UTGST or IGST) claimed in the invoice(s) and shall be entitled to deduct / setoff / recover such GST amount (CGST & SGST/UTGST or IGST) or Input Tax Credit amount together with penalties and interest, if any, by adjusting against any amounts paid or becomes payable in future to the supplier under this contract or under any other contract.

To ensure compliance, undertaking in requisite format is to be submitted by supplier as per format F-14 along with documents for release of payment.

13.15 **New Taxes & duties:** Any new taxes & duties, if imposed by the State/ Central Govt. of India after the due date of bid submission but before the Contractual Completion Date, shall be reimbursed to the Service Provider on submission of copy of notification(s) issued from State/ Central Govt. Authorities along with documentary evidence for proof of payment of such taxes & duties, but only after ascertaining it's applicability with respect to the Contract.

=====

13.16 Full payment including GST will be released at the time of processing of invoice for payment, where the GST amount reflects in Form GSTR-2A of IGGL. However, in case where the GST amount doesn't reflect in Form GSTR-2A of IGGL, the amount of GST will be released after reflection of GST amount of corresponding invoice in Form GSTR-2A of IGGL.

14. **BID CURRENCIES:**

Bidders must submit bid in Indian Rupees only.

15. **BID VALIDITY:**

15.1 Bids shall be kept valid for period specified in BDS from the final Due date of submission of bid'. A Bid valid for a shorter period may be rejected by IGGL as 'non-responsive'.

15.2 In exceptional circumstances, prior to expiry of the original 'Bid Validity Period', the Employer may request the Bidders to extend the 'Period of Bid Validity' for a specified additional period. The request and the responses thereto shall be made in writing or by email. A Bidder may refuse the request without forfeiture of his EMD (if applicable). A Bidder agreeing to the request will not be required or permitted to modify his Bid, but will be required to extend the validity of its EMD (if applicable) for the period of the extension and in accordance with "ITB: Clause-16" in all respects.

16. **EARNEST MONEY DEPOSIT:**

16.1 Bid must be accompanied with earnest money deposit (**i.e. Earnest Money Deposit (EMD)**) also known as **Bid Security**) in the form of '**Demand Draft**' / '**Banker's Cheque**'/'**Insurance Surety Bond**'/'**Fixed Deposit Receipt**' [in favour of **Indradhanush Gas Grid Limited** payable at place mentioned in **BDS**] or '**Bank Guarantee**' (**including e-Bank Guarantee**) strictly as per the format given in form F-2 of the **Tender Document**. Bidder shall ensure that EMD submitted in the form of '**Bank Guarantee**' should have a validity of at least 'two [02] months' beyond the validity of the Bid. EMD submitted in the form of '**Demand Draft**' or '**Banker's Cheque**' should be valid for three months.

Bid not accompanied with EMD, or EMD not in requisite format shall be liable for rejection. The EMD shall be submitted in Indian Rupees only.

NOTE: THE BANK GUARANTEE ISSUED BY THE BANK MUST BE ROUTED THROUGH SFMS PLATFORM AS PER FOLLOWING DETAILS:

"BG issuance message (IFN 760 / IFN760COV For issuance of BG and IFN 767 / IFN 767 COV FOR Amendment of BG) is to be transmitted through SFMS to beneficiary's bank as below:

Name of Bank	: Axis Bank
Branch	: Guwahati
Branch Address	: Chhibber House, Ground Floor, G.S Road, Guwahati -781005
IFSC	: UTIB0000140
SWIFT Code	: AXISINBB140

=====

The issuing bank while issuing/amending the BG, should ensure that the below information is correctly captured in the message i.e., IFN 760 / IFN 760COV / IFN 767/ IFN 767COV:

Field Number	Particulars
7037	IGGL938956645

NOTE: THE BANK GUARANTEE ISSUED BY THE BANK MUST BE ROUTED THROUGH SFMS PLATFORM AS PER FOLLOWING DETAILS:

- (i) IFN 760 / IFN 760COV FOR ISSUANCE OF BANK GUARANTEE
- (ii) IFN 767 / IFN 767 COV FOR AMENDMENT OF BANK GUARANTEE
- (iii) THE ABOVE MESSAGE / INTIMATION SHALL BE SENT THROUGH SFMS BY THE BG ISSUING BANK TO AXIS BANK, GUWAHATI BRANCH, IFS CODE – UTIB0000140; BRANCH ADDRESS: Axis Bank, Chhibber House, Ground Floor, G.S Road, Guwahati -781005
- (iv) THE SUPPLIER SHALL SUBMIT TO IGGL THE COPY OF SFMS MESSAGE AS SENT BY THE ISSUING BANK ALONG WITH THE ORIGINAL BANK GUARANTEE

- 16.2 IGGL shall not be liable to pay any documentation charges, Bank charges, commission, interest etc. on the amount of EMD. In case EMD is in the form of a 'Bank Guarantee (including e-Bank Guarantee)', the same shall be from any Indian scheduled Bank (excluding Co-operative Banks and Regional Rural Banks) 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 Guarantee' from Banks other than the Nationalized Indian Banks, the Bank must be commercial Bank having net worth in excess of Rs. 100 Crores [Rupees One Hundred Crores] and a declaration to this effect should be made by such commercial Bank either in the 'Bank Guarantee' itself or separately on its letterhead. Purchaser will verify the BG from issuing bank.
- 16.3 Any Bid not secured in accordance with "ITB: Clause-16.1 & Clause-16.2" may be rejected by IGGL as non-responsive.
- 16.4 Unsuccessful Bidder's EMD will be discharged/ returned as promptly as possible, but not later than 'thirty [30] days' after finalization of tendering process.
- 16.5 The successful Bidder's EMD will be discharged upon the Bidder's acknowledging the 'Award' and signing the 'Agreement' and furnishing the 'Contract Performance Security (CPS)/ Security Deposit' pursuant to clause no. 38 of ITB.
- 16.6 Notwithstanding anything contained herein, the EMD may also be forfeited in any of the following cases:

- =====
- (a) If a Bidder withdraws his Bid during the 'Period of Bid Validity'
 - (b) If a Bidder has indulged in corrupt/fraudulent /collusive/coercive practice
 - (c) If the Bidder modifies Bid during the period of bid validity (after Due Date and time for Bid Submission).
 - (d) Violates any other condition, mentioned elsewhere in the Tender Document, which may lead to forfeiture of EMD.
 - (e) In the case of a successful Bidder, if the Bidder fails to:
 - (i) to acknowledge receipt of the "Notification of Award" / Fax of Acceptance [FOA]",
 - (ii) to furnish "Contract Performance Security / Security Deposit", in accordance with "ITB: Clause-38"
 - (iii) to accept 'arithmetical corrections' as per provision of the clause 30 of ITB.
- 16.7 In case EMD is in the form of 'Bank Guarantee (including e-Bank Guarantee)', the same must indicate the Tender Document No. and the name of Tender Document for which the Bidder is quoting. This is essential to have proper correlation at a later date.
- 16.8 MSEs (Micro & Small Enterprises) bidders need to submit EMD/Bid Security as per relevant clauses of tender (cl. 16 of ITB, etc), failing which bid shall be treated as 'Bid not accompanied with EMD' and shall be rejected..
- 16.9 In addition to existing specified form (i.e. Demand Draft (DD)/ Banker's Cheque/ Bank Guarantee -including e-Bank Guarantee) mentioned in tender documents for submission of EMD/Bid Bond, the bidder can also submit the EMD through online banking transaction i.e. IMPS/NEFT/RTGS etc. While remitting, the bidder must indicate EMD and tender/E-tender no. under remarks. Bidders shall be required to submit/ upload the successful transaction details along-with their bid/e-bid in addition to forwarding the details to dealing officer through email/letter with tender reference number immediately after remittance of EMD.
- In absence of submitting/ uploading the remittance details, the bids are likely to be considered as bid not accompanied with EMD. Further, in case of the above online transaction, submission of EMD in original is not applicable.
- 16.10 In case of forfeiture of EMD/ Bid Security, the forfeited amount will be considered inclusive of tax and tax invoice will be issued by IGGL. The forfeiture amount will be subject to final decision of IGGL based on other terms and conditions of order/ contract."
- 16.11 EMD / Bid Bond will not be accepted in case the same has reference of 'remitter' / 'financer' other than bidder on the aforementioned financial instrument of EMD / Bid Bond submitted by the bidder and bid of such bidder will be summarily rejected.

=====

16A **DECLARATION FOR BID SECURITY**

Bidders who are exempted as per extant guidelines in vogue) are required to submit Declaration for Bid Security as per proforma at Form F-2A.

17. **PRE-BID MEETING (IF APPLICABLE): Refer Invitation for Bid (IFB)**

- 17.1 The Bidder(s) or his designated representative are invited to attend a "Pre-Bid Meeting" which will be held at the address specified in IFB. It is expected that a bidder shall not depute more than 02 representatives for the meeting. If situation demands, pre-bid meeting will be held online. Bidders interested in attending the pre-bid meeting online, shall contact IGGL at the following e-mail ID's requesting IGGL for providing the link for online pre-bid meeting:

kulajit.talukdar@iggl.co.in

tanveer.jalal@iggl.co.in

- 17.2 Purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage and give hands-on e-tendering.
- 17.3 Text of the questions raised and the responses given, together with any responses prepared after the meeting, will be uploaded on the e-tendering website (<https://etenders.gov.in>) against the Tender. Any modification of the Contents of Bidding Documents listed in "ITB: Clause-7.1", that may become necessary as a result of the Pre-Bid Meeting shall be made by the Employer exclusively through the issue of an Addendum / Corrigendum pursuant to "ITB: Clause-9", and not through the minutes of the Pre-Bid Meeting.
- 17.4 Non-attendance of the Pre-Bid Meeting will not be a cause for disqualification of Bidder.

18. **FORMAT AND SIGNING OF BID**

- 18.1 The original and all copies of the Bid shall be typed or written in indelible ink [in the case of copies, photocopies are also acceptable] and shall be signed by a person or persons duly authorized to sign on behalf of the Bidder (as per POA). The name and position held by each person signing, must be typed or printed below the signature. All pages of the Bid except for unamended printed literature where entry(s) or amendment(s) have been made shall be initiated by the person or persons signing the Bid.
- 18.2 The Bid shall contain no alterations, omissions, or additions, unless such corrections are initiated by the person or persons signing the Bid.
- 18.3 **In case of e-tendering, digitally signed documents to be uploaded as detailed in addendum to ITB. (Annexure-I to Section III).**

=====

19. **ZERO DEVIATION AND REJECTION CRITERIA:**

19.1 **ZERO DEVIATION:** Deviation to terms and conditions of "Bidding Documents" may lead to rejection of bid. IGGL will accept bids based on terms & conditions of "Bidding Documents" only. Bidder may note IGGL will determine the substantial responsiveness of each bid to the Bidding Documents pursuant to provision contained in clause 29 of ITB. For purpose of this, a substantially responsive bid is one which conforms to all terms and conditions of the Bidding Documents without deviations or reservations. IGGL's determination of a bid's responsiveness is based on the content of the bid itself without recourse to extrinsic evidence.

Bidders are requested to not to take any deviation/exception to the terms and conditions laid down in this "Tender Documents", and submit all requisite documents as mentioned in this "Tender Documents", failing which their offer will be liable for rejection. If a bidder does not reply to the queries in the permitted time frame, then its bid shall be evaluated based on the documents available in the bid.

As a principle, clarifications from bidders after opening of tenders will not be sought. However, where clarifications / documents from the bidders on important aspects are absolutely necessary for finalization of tender, clarifications from bidder can be asked. The request for clarification shall be given in email/portal, asking the bidder to respond by a specified date, and also mentioning therein that, if the bidder does not comply or respond by the date, his tender will be liable to be rejected. Depending on the outcome, such tenders are to be ignored or considered further. No change in prices or substance of the bid including specifications, shall be offered or permitted. No post-bid clarification at the initiative of the bidder shall be entertained. The shortfall information/ documents should be sought only in case of historical documents which pre-existed bids and which have not undergone change since then.

19.2 **REJECTION CRITERIA:** Notwithstanding the above, deviation to the following clauses of Tender document shall lead to summarily rejection of Bid:

- (a) Firm Price
- (b) Earnest Money Deposit / Bid Security/ Bid Security Declaration (As applicable)
- (c) Specifications & Scope of Work
- (d) Schedule of Rates / Price Schedule / Price Basis
- (e) Duration / Period of Contract/ Completion schedule
- (f) Period of Validity of Bid
- (g) Price Reduction Schedule
- (h) Contract Performance Security
- (i) Guarantee / Defect Liability Period
- (j) Arbitration / Resolution of Dispute/Jurisdiction of Court
- (k) Force Majeure & Applicable Laws
- (l) Integrity Pact, if Applicable
- (m) Any other condition specifically mentioned in the tender document elsewhere that non-compliance of the clause lead to rejection of bid

=====

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

20. **E-PAYMENT**

IGGL is in the process of initiating payments to Contractors electronically, and to facilitate the payments electronically through '**e-banking**'. The successful bidder should give the details of his bank account as per the bank mandate form.

=====

[D] – SUBMISSION OF BIDS

21. SUBMISSION, SEALING AND MARKING OF BIDS

- 21.1 In case of e-tendering, bids shall be submitted through e-tender mode in the manner specified elsewhere in tender document. No Manual/ Hard Copy (Original) offer shall be acceptable. Physical documents shall be addressed to the owner at address specified in IFB.
- 21.2 ~~In case of manual tendering bid must be submitted in sealed envelope. If the envelope is not sealed & marked as per Clause No. 11 of ITB, the employer will assume no responsibility for misplacement or pre-mature opening of the bid.~~
- 21.3 All the bids shall be addressed to the owner at address specified in IFB.
- 21.4 Bids submitted under the name of AGENT/ CONSULTANT/ REPRESENTATIVE /RETAINER/ ASSOCIATE etc. on behalf of a bidder/affiliate shall not be accepted.

22. DEADLINE FOR SUBMISSION OF BIDS:

- 22.1 In case of e-bidding, the bids must be submitted through e-tender mode not later than the date and time specified in the tender documents/BDS.
- 22.2 ~~In case of manual tendering EMD (if applicable) along with bid must be submitted within the due date & time.~~
- 22.3 IGGL may, in exceptional circumstances and at its discretion, extend the deadline for submission of Bids (clause 8 or 9 of ITB refers). In which case all rights and obligations of IGGL and the Bidders, previously subject to the original deadline will thereafter be subject to the deadline as extended. Notice for extension of due date of submission of bid will be uploaded on IGGL's website/E-tender website/ communicated to the bidders.

23. LATE BIDS:

- 23.1 Any bids received after the notified date and time of closing of tenders will be treated as late bids.
- 23.2 In case of e-tendering, e-tendering system of IGGL shall close immediately after the due date for submission of bid and no bids can be submitted thereafter.

In case of manual tendering, bids received by IGGL after the due date for submission of bids shall not be considered. Such late bids shall be returned to the bidder within "10 days" in 'unopened conditions. The EMD (if applicable) of such bidders shall be returned along with the un-opened bid. In case of e-tendering, where the bid bond/physical documents have been received but the bid is not submitted by the

=====

bidder in the e-tendering portal, such bid bond/ physical documents shall be returned immediately.

- 23.3 EMD /physical documents received to address other than one specifically stipulated in the Tender Document will not be considered for evaluation/opening/award if not received to the specified destination within stipulated date & time.
- 23.4 Unsolicited Bids or Bids received to address other than one specifically stipulated in the tender document will not be considered for evaluation/opening/award if not received to the specified destination within stipulated date & time.

24. MODIFICATION AND WITHDRAWAL OF BIDS

24.1 Modification and withdrawal of bids shall be as follows: -

24.1.1 IN CASE OF E- TENDERING

The bidder may withdraw or modify its bid after bid submission but before the due date and time for submission as per tender document.

24.1.2 IN CASE OF MANUAL BIDDING:

The bidder may withdraw or modify its bid after bid submission but before the due date for submission as per tender document provided that the written notice of the modification/ substitution/ withdrawal is received by IGGL prior to the deadline for submission of bid.

- 24.2 The modification shall also be prepared, sealed, marked and dispatched in accordance with the provisions of the clause 11,21 & 22 of ITB with relevant 'Cut-Out Slip' duly pasted and mentioning on top of the envelope as "MODIFICATION". In case of withdrawal of bid, the Envelope containing withdrawal letter duly super scribing the envelope as "WITHDRAWAL" and "Tender Document number :..."/ communication regarding withdrawal of bid with "Tender Document number :..."/ must reach concerned dealing official of IGGL within Due date & Time of submission of Bid. No bid shall be modified/ withdrawn after the Due Date & Time for Bid submission.
- 24.3 Any withdrawal/ modification/substitution of Bid in the interval between the Due Date & Time for Bid submission and the expiration of the period of bid validity specified by the Bidder in their Bid shall result in the Bidder's forfeiture of EMD (if applicable) pursuant to clause 16 of ITB and rejection of Bid.
- 24.4 The latest Bid submitted by the Bidder shall be considered for evaluation and all other Bid(s) shall be considered to be unconditionally withdrawn.

=====

[E] – BID OPENING AND EVALUATION

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

- 25.1 IGGL reserves the right to accept or reject any Bid, and to annul the Bidding process and reject all Bids, at any time prior to award of Contract, without thereby incurring any liability to the affected Bidder(s) or any obligations to inform the affected Bidder(s) of the ground for IGGL's action. However, Bidder if so, desire may seek the reason (in writing) for rejection of their Bid to which IGGL shall respond quickly.
- 25.2 A bidder is to be permitted to send his representation in writing to dealing officer specified in tender for rejection of bid. But such representation has to be sent till 10 (ten) days from the date of Notification of Award/FOA. A decision on representation will be taken by IGGL within 15 (fifteen) days of the receipt of the representation. Only a directly affected bidder can represent in this regard:
- i) Only a bidder who has participated in tender can make such representation.
 - ii) In case technical bid has been evaluated before the opening of the financial bid, an application for review in relation to the financial bid may be filed only by a bidder whose technical bid is found to be acceptable.
- 25.3 However, following decisions of IGGL shall not be subject to review:
- a) Determination of the need for procurement;
 - b) Selection of the mode of procurement or bidding system;
 - c) Choice of selection procedure;
 - d) Provisions limiting participation of bidders in the procurement process;
 - e) The decision to enter into negotiations with the L1 bidder;
 - f) Cancellation of the procurement process except where it is intended to subsequently re-tender the same requirements;
 - g) Issues related to ambiguity in contract terms may not be taken up after a contract has been signed, all such issues should be highlighted before consummation of the contract by the vendor/ contractor; and
 - h) Complaints against specifications except under the premise that they are either vague or too specific so as to limit competition may be permissible

26. BID OPENING

26.1 *Unpriced Bid Opening:*

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

26.2 *Priced Bid Opening:*

- 26.2.1 IGGL will open the price bids of those bidders who meet the qualification requirement and whose bids is determined to be technically and commercially responsive. Techno-commercial bid evaluation status will be uploaded in CPP portal

=====

for information to all bidders (including techno-commercially not qualified Bidders). Price bids are to be opened in the presence of only techno-commercially acceptable bidders, who are willing to attend the bid opening, at a pre-publicised date, time and place or on the portal in case of e-procurement.

26.2.2 The priced bids of those Bidders who were not found to be techno-commercially responsive shall not be opened in both manual tendering and e-tendering. In case of Manual Tender, the envelope containing Price Bid shall be returned unopened after opening of the price bids of techno-commercially responsive Bidders.

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

27. CONFIDENTIALITY:

Information relating to the examination, clarification, evaluation and comparison of Bids, and recommendations for the award of a Contract, shall not be disclosed to Bidder(s) or any other persons not officially concerned with such process until the award to the successful bidder.

28. CONTACTING THE EMPLOYER:

28.1 From the time of bid opening to the time of contract award, no bidder shall contact IGGL on any matter related to the bid, except on request and prior written permission.

28.2 Any effort by the Bidder to influence the Employer in the Employer's 'Bid Evaluation', 'Bid Comparison', or 'Contract Award' decisions may result in the rejection of the Bidder's Bid and action shall be initiated as per procedure for action in case Corrupt / Fraudulent / Collusive / Coercive practices in this regard apart from forfeiture of EMD/ Bid Security, if any.

29. EXAMINATION OF BIDS AND DETERMINATION OF RESPONSIVENESS:

29.1 The employer's determination of a bid's responsiveness is based on the content of the bid only. Prior to the detailed evaluation of Bids, the Employer will determine whether each Bid: -

- (a) Meets the "Bid Evaluation Criteria" of the Bidding Documents;
- (b) Has been properly signed;
- (c) Is accompanied by the required 'Earnest Money / Bid Security / Bid Security Declaration
- (d) Is substantially responsive to the requirements of the Bidding Documents; and
- (e) Provides any clarification and/or substantiation that the Employer may require to determine responsiveness pursuant to "ITB: Clause-29.2"

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

- =====
- a) "Deviation" is departure from the requirement specified in the tender documents.
 - b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirement in the tender documents.
 - c) "Omission" is the failure to submit part or all of the information or documentation required in the tender document.
- 29.3 A material deviation, reservation or omission is one that,
- a) If accepted would,
 - i) Affect in any substantial way the scope, quality, or performance of the job as specified in tender documents.
 - ii) Limit, in any substantial way, inconsistent with the Tender Document, the Employer's rights or the tenderer's obligations under the proposed Contract.
 - b) If rectified, would unfairly affect the competitive position of other bidders presenting substantially responsive bids.
- 29.4 The employer shall examine all aspects of the bid to confirm that all requirements have been met without any material deviation, reservation or omission.
- 29.5 Tenders that do not meet the basic requirements specified in the bid documents are to be treated as unresponsive {both during Techno-commercial evaluation and Financial Evaluation in case of Two Bid System) and will be ignored. All tenders received will first be scrutinized to see whether the tenders meet the basic requirements as incorporated in the Bid document and to identify unresponsive tenders, if any. Unresponsive offers may not subsequently be made responsive by correction or withdrawal of the non- conforming stipulation. Some important points on the basis of which a tender may be declared as unresponsive and be ignored during the initial scrutiny are:
- i) The tender is not in the prescribed format or is unsigned or not signed as per the stipulations in the bid document;
 - ii) The required EMD has not been provided or exemption from EMD is claimed without acceptable proof of exemption;
 - iii) The bidder is not eligible to participate in the bid as per laid down eligibility criteria
 - iv) The bid departs from the essential requirements specified in the bidding document (for example, the tenderer has not agreed to give the required contract performance security); or
 - v) Against a schedule in the list of requirements in the tender enquiry, the tenderer has not quoted for the entire requirement as specified in that schedule (example: in a schedule, it has been stipulated that the tenderer will supply the equipment, install and commission it and also train the IGGL's personnel for operating the equipment. The tenderer has, however, quoted only for supply of the equipment).

=====

30. CORRECTION OF ERRORS:

30.1 Bids determined to be substantially responsive will be checked by the Employer for any arithmetic errors. Errors in Price Schedule/Schedule of Rates (SOR) will be corrected by the Employer as follows:

- (i) When there is a difference between the rates in figures and words, the rate which corresponds to the amount worked out by the Bidder (by multiplying the quantity and rate) shall be taken as correct.
- (ii) When the rate quoted by the Bidder in figures and words tallies but the amount is incorrect, the rate quoted by the contractor shall be taken as correct and not the amount and the amount shall be re-calculated/ corrected accordingly.
- (iii) In case a Price Schedule/ Schedule of Rate is having provisions of sub-total and grand total and there is a difference between "sum of sub totals" and "grand total", "sum of sub totals" shall be taken as correct.
- (iv) When it is not possible to ascertain the correct rate, in the manner prescribed above, the rate as quoted in words shall be adopted and the amount worked out, for comparison purposes.
- (v) In case any bidder does not quote for any item(s) of "Schedule of Rates" and the estimated price impact is more than 10% of the quoted price, then the bid will be rejected. If such price impact of unquoted items is 10% or less of his quoted price, then the unquoted item(s) shall be loaded highest of the price quoted by the other bidders. If such bidder happens to be lowest evaluated bidder, price of unquoted items shall be considered as included in the quoted bid price.

30.2 The discrepancy in bid shall be conveyed to the bidder asking to respond by a target date and if the bidder does not agree with observation, its Bid is liable to be rejected, and the EMD shall be forfeited / actions shall be invoked as per Declaration for Bid Security.

30.3 The above provision of Correction of Error shall not be applicable for tenders invited in GePNIC portal.

=====

31. CONVERSION TO SINGLE CURRENCY FOR COMPARISON OF BIDS:

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

32. EVALUATION AND COMPARISON OF BIDS

Bid shall be evaluated as per evaluation criteria mentioned in Section-II of bidding documents on lowest bid.

33. COMPENSATION FOR EXTENDED STAY – NOT APPLICABLE

34. PURCHASE PREFERENCE:

Purchase preference to Micro & Small Enterprises (MSEs) is not applicable for WORKS contract.

Purchase preference as per policy to provide Purchase Preference as per Public Procurement (Preference to Make in India), Order 2017 / ~~Domestically Manufactured Telecom Products (DMTP)~~ shall be allowed as per Government instructions in vogue, as applicable from time to time.---**NOT APPLICABLE against this Tender.**

The policy for providing Purchase Preference to Public Procurement (Preference to make in India) is enclosed as Annexure III to ITB herewith. **APPLICABLE against this Tender.**

=====

[F] – AWARD OF CONTRACT

35. AWARD:

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

"IGGL intent to place the contract directly on the address from where Goods are produced/dispatched, or Services are rendered. In case, bidder wants contract at some other address or supply of Goods/Services from multiple locations, bidder is required to provide in their bid, the address on which contract is to be placed".

IGGL will place the Contract directly on the successful bidder from whom the bid has been received & evaluated and will not place order on other entities such as subsidiary, business associate or partner, dealer/distributor etc. of the Bidder.

36. NOTIFICATION OF AWARD / FAX OF ACCEPTANCE:

- 36.1 Prior to the expiry of 'Period of Bid Validity', Notification of Award for acceptance of the Bid will be intimated to the successful Bidder by IGGL either by E - mail /Letter or like means defined as the "Fax of Acceptance (FOA)". The Contract shall enter into force on the date of FOA and the same shall be binding on IGGL and successful Bidder (i.e., Contractor). The Notification of Award/FOA will constitute the formation of a Contract. The detailed Letter of Acceptance shall be issued thereafter incorporating terms & conditions of Tender Document, Corrigendum, Clarification(s), Bid and agreed variation(s)/acceptable deviation(s), if any. IGGL may choose to issue Notification of Award in form of detailed Letter of Acceptance / SAP PO without issuing FOA and in such case the Contract shall enter into force on the date of detailed Letter of Acceptance / SAP PO only.
- 36.2 Contract period shall commence from the date of "Notification of Award" or as mentioned in the Notification of Award. The "Notification of Award" will constitute the formation of a Contract, until the Contract has been effected pursuant to signing of Contract as per "ITB: Clause-37".
- 36.3 Upon the successful Bidder's / Contractor's furnishing of 'Contract Performance Security / Security Deposit', pursuant to "ITB: Clause-38", IGGL will promptly discharge his 'Earnest Money / Bid Security (if applicable)', pursuant to "ITB: Clause-16"

=====

36.4 The Order/ contract value mentioned above is subject to Price Reduction Schedule clause.

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

37. SIGNING OF AGREEMENT

37.1 The successful Bidder/Service Provider shall be required to execute an 'Agreement' in the proforma given in this Bidding Document on a 'non-judicial stamp paper' of appropriate value [cost of the 'stamp-paper' shall be borne by the successful Bidder/Service Provider] and of 'State of India' specified in Bidding Data Sheet (BDS) only, within 'fifteen [15] days' of receipt of the "Fax of Acceptance [FOA]/Notification of Award" of the Tender by the successful Bidder/Contractor. Failure on the part of the successful Bidder/Contractor to sign the 'Agreement' within the above stipulated period, shall constitute sufficient grounds for forfeiture of EMD/Action as per Bid Security declaration. However, signing of Agreement shall not be applicable in cases wherein the individual contract value as specified in Notification of Award is less than INR 10 Lakh (exclusive of GST).

37.2 The format for signing Contract Agreement in English is attached with this Bidding Document.

38. CONTRACT PERFORMANCE SECURITY / SECURITY DEPOSIT *[FOR APPLICABILITY OF THIS CLAUSE, REFER BDS]*

38.1 Within 30 days of the receipt of the notification of award/ Fax of Acceptance from IGGL, the successful bidder shall furnish the Contract Performance Security (CPS) in accordance with of General Conditions of the Contract. The CPS shall be in the form of either Banker's Cheque or Demand Draft or Insurance Surety Bond or Fixed Deposit Receipt or Bank Guarantee (including e-Bank Guarantee) or Letter of Credit and shall be in the currency of the Contract. However, CPS shall not be applicable in cases where in the individual order/contract value as specified in Notification of Award is less than INR 5 Lakh (exclusive of GST).

NOTE: THE BANK GUARANTEE ISSUED BY THE BANK MUST BE ROUTED THROUGH SFMS PLATFORM AS PER FOLLOWING DETAILS:

"BG issuance message (IFN 760 / IFN760COV For issuance of BG and IFN 767 / IFN 767 COV FOR Amendment of BG) is to be transmitted through SFMS to beneficiary's bank as below:

Name of Bank	: Axis Bank
Branch	: Guwahati
Branch Address	: Chhibber House, Ground Floor, G.S Road, Guwahati -781005
IFSC	: UTIB0000140
SWIFT Code	: AXISINBB140

=====

The issuing bank while issuing/amending the BG, should ensure that the below information is correctly captured in the message i.e., IFN 760 / IFN 760COV / IFN 767/ IFN 767COV:

Field Number	Particulars
7037	IGGL938956645

NOTE: THE BANK GUARANTEE ISSUED BY THE BANK MUST BE ROUTED THROUGH SFMS PLATFORM AS PER FOLLOWING DETAILS:

- (i) IFN 760 / IFN 760COV FOR ISSUANCE OF BANK GUARANTEE
- (ii) IFN 767 / IFN 767 COV FOR AMENDMENT OF BANK GUARANTEE
- (iii) THE ABOVE MESSAGE / INTIMATION SHALL BE SENT THROUGH SFMS BY THE BG ISSUING BANK TO AXIS BANK, GUWAHATI BRANCH, IFS CODE – UTIB0000140; BRANCH ADDRESS: Axis Bank, Chhibber House, Ground Floor, G.S Road, Guwahati -781005
- (iv) THE SUPPLIER SHALL SUBMIT TO IGGL THE COPY OF SFMS MESSAGE AS SENT BY THE ISSUING BANK ALONG WITH THE ORIGINAL BANK GUARANTEE

- 38.2 The contract performance security shall be for an amount equal to specified in Bidding Data Sheet (BDS) towards faithful performance of the contractual obligations and performance of equipment. For the purpose of CPS, Contract/order value shall be exclusive of GST (CGST & SGST/UTGST or IGST).

SD / CPBG @ 10% of Total Order / Contract value in case contract period is less than one year or 10% of Annualized Order /Contract value in case contract period is more than one year; within 30 days of FOA/notification of award.

OR

Initial security deposit (ISD) @ 2.5% of Total Order / Contract value in case contract period is less than one year or 2.5% of Annualized Order / Contract value in case contract period is more than one year; within 30 days of FOA/notification of award and deduction @ 7.5% of the RA bill subsequently from RA bills till the total amount of security deposit (including ISD and deducted amount) reaches 10% of Total Order / Contract value in case contract period is less than one year or 10% of Annualized Order / Contract value in case contract period is more than one year.

- 38.3 Bank Guarantee towards CPS 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 Nationalized Indian banks, the bank must be a commercial bank having net worth in excess of Rs 100 crores and a declaration to this effect should be made by such commercial bank either in the Bank Guarantee itself or separately on its letterhead. This bank

=====

guarantee shall be valid for a period of three months beyond the DLP specified in Bid Data Sheet.

- 38.4 Failure of the successful bidder to comply with the requirements of this article shall constitute sufficient grounds for consideration of the annulment of the award and forfeiture of the EMD /action as per declaration for Bid Security.
- 38.5 The CPS has to cover the entire contract value including extra works/services also. As long as the CPS submitted at the time of award take cares the extra works/ services executed and total executed value are within the awarded contract price, there is no need for additional CPS. As soon as the total executed value is likely to burst the ceiling of awarded contract price, the contractor should furnish additional CPS.
- 38.6 Further, Ministry of Finance (MOF) Department of financial service has issued direction for submission of Bank Guarantee through online vide letter ref number F.No.7/112/2011-BOA dated 17th July 2012. The successful bidder can submit CPS online through issuing bank to IGGL directly as per the above direction including its revisions, if any. In such cases confirmation will not be sought from issuing banker by IGGL.
- 38.7 In addition to existing specified form (i.e. Demand Draft (DD)/ Banker's Cheque/ Bank Guarantee/Letter of Credit) mentioned in tender documents for submission of Security Deposit/ Contract Performance Security, the successful bidder can also submit the Security Deposit/ Contract Performance Security through online banking transaction i.e. IMPS/NEFT/RTGS/SWIFT etc. For this purpose, the details of IGGL's Bank Account is mentioned in BDS. Further, in case a successful Bidder is willing to furnish CPS through SWIFT, the details may be obtained from Purchase Officer immediately after receipt of FOA / SAP PO.
- While remitting such online transaction, the bidder must indicate **"Security Deposit/ Contract Performance Security against FOA/LOA/SAP PO no. _____(contractor to specify the FOA/LOA/SAP PO No.)"** under remarks column of such transaction of respective bank portal. The contractor/vendor shall be required to submit the successful transaction details to the dealing officer immediately through email/letter and necessarily within 30 days from the date of Fax of Acceptance/Notification of Award.
- 38.8 In case of forfeiture of Contract Performance Security/ Security Deposit in terms of GCC, the forfeited amount will be considered inclusive of tax and tax invoice will be issued by IGGL. The forfeiture amount will be subject to final decision of IGGL based on other terms and conditions of order/ contract.
- 38.9 The Contractor will also submit covering letter along with CPS as per format at F-4.

- =====
- 38.10 CPBG/Security Deposit will not be accepted in case the same has reference of 'remitter'/'financer' other than bidder on the afore mentioned financial instrument of CPBG/ Security Deposit submitted by the Contractor.
- 38.11 Before the CPS / Security Deposit (SD) is released a "No Claim Certificate" is to be submitted by the supplier/vendor.
- 38.12 The first payment to contractor/ vendor/supplier is to be released only after submission of Contract Performance Security (CPS)/ Security Deposit (SD). Alternatively, Security Deposit can be deducted from the due payment of contractor/ vendor/supplier against such order/ contract as an exception.
- 38.13 **Non submission of Security Deposit (SD) on Time:** In case, IGGL allows additional time for submission of CPBG/SD beyond 30 days, a penal interest of Marginal Cost of Fund based Lending Rate (MCLR) for one year charged by SBI (applicable on due date of submission of CPBG/SD i.e., 30th day after issuance of FOA/Notification of award) plus 4.0% P.A. (on CPBG/SD amount) shall be charged for delay beyond 30 days i.e. from 31st days after issuance of FOA/Notification of Award.

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

- 39.1 Procedure for action in case Corrupt/ Fraudulent/Collusive/Coercive Practices is enclosed at Annexure-IV which shall supersede the Annexure attached with the GCC.
- 39.2 The Fraud Prevention Policy document is available on IGGL's website (<https://iggl.co.in>)
- 39.3 Name and contact details of nodal officer are mentioned in BDS.

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

Not with standing anything contained contrary in GCC and other "CONTRACT DOCUMENTS", in case it is found that the Contractors/Bidders indulged in fraudulent/ coercive practices at the time of bidding, during execution of the contract etc., and/or on other grounds as mentioned in IGGL's "Procedure for action in case Corrupt/Fraudulent/Collusive/Coercive Practices", the contractor/bidder shall be banned (in terms of aforesaid procedure) from the date of issuance of such order by Indradhanush Gas Grid Limited (IGGL), to such Contractors/Bidders.

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

40 PUBLIC PROCUREMENT POLICY FOR MICRO AND SMALL ENTERPRISES

The Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 is not applicable for tender for procurement of Works.

MSE bidders need to submit EMD/Bid Security as per relevant clauses of tender (cl. 16 of ITB, etc), failing which bid shall be treated as 'Bid not accompanied with EMD' and shall be rejected. Exemption of EMD and benefits of purchase preference is not applicable to participating MSE's being a works tender.

41 AHR ITEMS [Not Applicable for instant tender being Percentage Tendering]

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

~~I) Rates as per SOR, quoted by the Contractor/Bidder.~~

~~II) Rate of the item, which shall be derived as follows:~~

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

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

42 VENDOR PERFORMANCE EVALUATION:

Shall be as stipulated in Annexure-V to ITB herewith, which shall supersede the Annexure attached with the GCC.

43 INCOME TAX & CORPORATE TAX

43.1 Income tax deduction shall be made from all payments made to the contractor as per the rules and regulations in force and in accordance with the Income Tax Act prevailing from time to time.

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

43. TDS

(i) TDS, wherever applicable, shall be deducted as per applicable act/law/rule.

(ii) Higher rate of TDS for non-filers of ITR

As per Section 206AB of Income Tax Act, 1961, in case of any vendor/customer who does not file their Income Tax Return for both of the two previous years preceding to current year and aggregate amount of TDS is

more than or equal to 50,000/- in each of those previous two years (or limit defined by Govt. from time to time), then TDS will be deducted at the higher of following rates:

- (I) Twice the rate mentioned in relevant TDS section.
- (II) Twice the rate or rates in force
- (III) 5%

43.4 **MENTIONING OF PAN NO. IN INVOICE/BILL:**

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 or as amended from time to time.

Accordingly, service provider should mention their PAN no. in their invoice/ bill for any transaction exceeding Rs. 2 lakhs or as amended from time to time. As provided in the notification, in case service provider do not have PAN no., they have to submit declaration in Form 60 along with invoice/ bill for each transaction.

Payment of contractor shall be processed only after fulfilment of above requirement.

44. **DISPUTE RESOLUTION MECHANISM**

44.1 **QUARTERLY CLOSURE OF THE CONTRACT**

During execution of contracts/orders, various issues may arise. In order to timely detect and to address the contractual issue (s) during the execution of contracts, IGGL has introduced a mechanism of quarterly closure of the contract, under which all the issues related to the contract execution will be monitored on quarterly basis for resolution.

Vendors/Contractors are required to co-operate with EIC for proper implementation of this mechanism for smooth execution of the contract." For applicability of 'Quarterly Closure', please refer BDS.

44.2 **CONCILIATION AND ARBITRATION**

1.0 CONCILIATION

Indradhanush Gas Grid Limited (IGGL) has framed the Conciliation Rules 2019 in conformity with Part – III of the Arbitration and Conciliation Act 1996 as amended from time to time for speedier, cost effective and amicable settlement of disputes through conciliation. All issue(s)/dispute(s) arising under the Contract, which cannot be mutually resolved within a reasonable time, may be referred for conciliation in accordance with IGGL Conciliation Rules 2019 as amended from time to time. A copy of the said rules have been made available on IGGL's web site i.e. <https://iggl.co.in>.

Where invitation for Conciliation has been accepted by the other party, the Parties shall attempt to settle such dispute(s) amicably under Part-III of the Arbitration and Conciliation Act, 1996 and Indradhanush Gas Grid Limited (IGGL) Conciliation Rules, 2019. It would be only after exhausting the option of Conciliation as an Alternate Dispute Resolution Mechanism that the Parties hereto shall invoke Arbitration Clause.

=====

For the purpose of this clause, the option of 'Conciliation' shall be deemed to have been exhausted, even in case of rejection of 'Conciliation' by any of the Parties.

2.0 ARBITRATION

All issue(s)/dispute(s) excluding the matters that have been specified as excepted matters and listed at clause no. 2.6 and which cannot be resolved through Conciliation, such issue(s)/dispute(s) shall be referred to arbitration for adjudication by Sole Arbitrator.

The party invoking the Arbitration shall have the option to either opt for Ad-hoc Arbitration as provided at Clause 2.1 below or Institutionalized Arbitration as provided at Clause no. 2.2 below, the remaining clauses from 2.3 to 2.7 shall apply to both Ad-hoc and Institutional Arbitration: -

2.1 On invocation of the Arbitration clause by either party, IGGL shall suggest a panel of three independent and distinguished persons (Retd Supreme Court & High Court Judges only) to the other party to select any one among them to act as the Sole Arbitrator. In the event of failure of the other party to select the Sole Arbitrator within 30 days from the receipt of the communication from IGGL suggesting the panel of arbitrators, the right of selection of the sole arbitrator by the other party shall stand forfeited and IGGL shall appoint the Sole Arbitrator from the suggested panel of three Arbitrators for adjudication of dispute(s). The decision of IGGL on the appointment of the sole arbitrator shall be final and binding on the other party. The fees payable to Sole Arbitrator shall be governed by the fee Schedule of "Delhi International Arbitration Centre".

OR

2.2 If a dispute arises out of or in connection with this contract, the party invoking the Arbitration shall submit that dispute to any one of the Arbitral Institutions i.e., ICADR/ICA/DIAC/SFCA and that dispute shall be adjudicated in accordance with their respective Arbitration Rules. The matter shall be adjudicated by a Sole Arbitrator who shall necessarily be a Retd Supreme Court/High Court Judge to be appointed/nominated by the respective institution. The cost/expenses pertaining to the said Arbitration shall also be governed in accordance with the Rules of the respective Arbitral Institution. The decision of the party invoking the Arbitration for reference of dispute to a specific Arbitral institution for adjudication of that dispute shall be final and binding on both the parties and shall not be subject to any change thereafter. The institution once selected at the time of invocation of dispute shall remain unchanged.

2.3 The cost of arbitration proceedings shall be shared equally by the parties.

2.4 The Arbitration proceedings shall be in English language and the seat, venue and place of Arbitration shall be Guwahati, Assam, India only.

=====

2.5 Subject to the above, the provisions of Arbitration & Conciliation Act 1996 and any amendment thereof shall be applicable. All matter relating to this Contract and arising out of invocation of Arbitration clause are subject to the exclusive jurisdiction of the Court(s) situated at **Guwahati, Assam, India**.

2.6 List of Excepted matters:

- a) Dispute(s)/issue(s) involving claims below Rs 25 lakhs and above Rs 10 crores.
- b) Dispute(s) / issue(s) relating to indulgence of Contractor / Vendor / Bidder in corrupt / fraudulent / collusive / coercive practices and/or the same is under investigation by CBI or Vigilance or any other investigating agency or Government.
- c) Dispute(s) / issue(s) wherein the decision of Engineer-In-Charge / owner / IGGL has been made final and binding in terms of the Contract.

2.7 Disputes involving claims below Rs 25 Lakhs and above Rs. 10 crores: - Parties mutually agree that dispute(s)/issue(s) involving claims below Rs 25 Lakhs and above Rs 10 crores shall not be subject matter of Arbitration and are subject to the exclusive jurisdiction of the Court(s) situated at **Guwahati, Assam, India**.

3.0 GOVERNING LAW AND JURISDICTION: The Contract shall be governed by and construed in accordance with the laws in force in India. The Parties hereby submit to the exclusive jurisdiction of the Courts situated at **Guwahati, Assam, India** for adjudication of disputes, injunctive reliefs, actions and proceedings, if any, arising out of this Contract.

45. DISPUTES BETWEEN CPSE'S/GOVERNMENT DEPARTMENT'S/ ORGANIZATIONS

Subject to conciliation as provided above, in the event of any dispute (other than those related to taxation matters) or difference relating to the interpretation and application of the provisions of commercial contract(s) between Central Public Sector Enterprises (CPSEs/ Port Trusts) inter se and also between CPSEs and Government Departments /Organizations), such dispute or difference shall be taken up by either party for resolution only through AMRCD as mentioned in OPE OM No. 4(1)/2013-DPE(GM)/FTS-1835 dated 22-05-2018.

Any party aggrieved with the decision of the Committee at the First level (tier) may prefer an appeal before the Cabinet Secretary at the Second level (tier) within 15 days from the date of receipt of decision of the Committee at First level, through it's administrative Ministry/Department, whose decision will be final and binding on all concerned.

The above provisions mentioned at clause no. 44.2 & 45 shall supersede provisions relating to Conciliation, Arbitration, Governing Law & Jurisdiction and Disputes between CPSE's/ Government Department's/ Organizations mentioned in General Conditions of Contract (GCC) and elsewhere in tender document.

=====

46. INAM-PRO (PLATFORM FOR INFRASTRUCTURE AND MATERIALS PROVIDERS)

INAM-Pro (Platform for infrastructure and materials providers) is a web-based platform for infrastructure providers and materials suppliers and was developed by Ministry of Road Transport and Highways (MoRT&H) with a view to reduce project execution delays on account of supply shortages and inspire greater confidence in contractors to procure cement to start with directly from the manufacturers. Presently, numerous cement companies are registered in the portal and offering cement for sale on the portal with a commitment period of 3 years. These companies have bound themselves by ceiling rates for the entire commitment period, wherein they are allowed to reduce or increase their cement rates any number of times within the ceiling rate but are not permitted to exceed the said ceiling rate.

MoRT&H is expanding the reach of this web-portal by increasing both the product width as well as the product depth. They are working on incorporating 60 plus product categories. The product range will span from large machineries like Earth Movers and Concrete Mixers, to even the smallest items like road studs. MoRT&H intend to turn it into a portal which services every infrastructure development related need of a modern contractor.

IGGL's contractors may use this innovative platform, wherever applicable. The usage of web – Portal is a completely voluntary exercise. The platform, however, can serve as a benchmark for comparison of offered prices and products.

47. PROMOTION OF PAYMENT THROUGH CARDS AND DIGITAL MEANS:

To promote cashless transactions, the onward payments by Contractors to their employees, service providers, sub-contractors and suppliers may be made through Cards and Digital means to the extent possible.

48. CONTRACTOR TO ENGAGE CONTRACT MANPOWER BELONGING TO SCHEDULED CASTES AND WEAKER SECTIONS OF THE SOCIETY:

While engaging the contractual manpower, Contractors are required to make efforts to provide opportunity of employment to the people belonging to Scheduled Castes and weaker sections of the society also in order to have a fair representation of these sections.

49. PROVISIONS FOR START-UP's (AS DEFINED IN GAZETTE NOTIFICATION NO. D.L-33004/99 DATED 18.02.2016 AND 23.05.2017 OF MINISTRY OF COMMERCE AND INDUSTRY AND AS AMENDED FROM TIME TO TIME) [FOR APPLICABILITY OF THIS CLAUSE, REFER BDS]

As mentioned in Section-II, Prior turnover and prior experience shall not be required for all Startups [whether Micro & Small Enterprises (MSEs) or otherwise] subject to their meeting the quality and technical specifications specified in tender document

=====

and submission of document specified in Section -II. Further, the Startups are also exempted from submission of EMDs (if applicable).

If a Startup emerge lowest bidder, the LoA on such Startup shall be placed for entire tendered quantity/group/item/part (as the case may be). However, during the Kick of Meeting monthly milestones/ check points would be drawn. Further, the performance of such contractor/ service provider will be reviewed more carefully and action to be taken as per provision of contract in case of failure/ poor performance.

50. PROVISION REGARDING INVOICE FOR REDUCED VALUE OR CREDIT NOTE TOWARDS PRS

PRS is the reduction in the consideration / contract value for the services covered under this contract. In case of delay in execution of contract, service provider should raise invoice for reduced value as per Price Reduction Schedule Clause (PRS clause). If service provider has raised the invoice for full value, then service provider should issue Credit Note towards the applicable PRS amount with applicable taxes.

In such cases if service provider fails to submit the invoice with reduced value or does not issue credit note as mentioned above, IGGL will release the payment to service provider after giving effect of the PRS clause with corresponding reduction of taxes charged on service provider's invoice, to avoid delay in payment.

In case any financial implication arises on IGGL due to issuance of invoice without reduction in price or non-issuance of Credit Note, the same shall be to the account of service provider. IGGL shall be entitled to deduct / setoff / recover such GST amount (CGST & SGST/UTGST or IGST) together with penalties and interest, if any, against any amounts paid or becomes payable by IGGL in future to the service provider under this contract or under any other contract.

51. UNIQUE DOCUMENT IDENTIFICATION NUMBER BY PRACTICING CHARTERED ACCOUNTANTS

Practicing Chartered Accountants shall generate Unique Document Identification Number (UDIN) for all certificates issued by them as per provisions of Tender Document. However, UDIN may not be required for documents being attested by Chartered Accountants in terms of provisions of Tender Document.

=====

52. **DOCUMENTS FOR PAYMENT:**

Payment terms shall be as mentioned in GCC-Works/SCC.

However, for release of payment, Contractor is required to submit invoice along with other documents as mentioned in SCC. The final bill is to be submitted within one month after completion.

Further, IGGL has implemented Bill Tracking System (BTS). Supplier/Vendor must forward their invoice through BTS (<https://vendor.iggl.co.in/>) by uploading a digital copy of the invoice in the portal.

However, the hard copy of invoice and all other document mentioned above or in order/ contract is to be forwarded to address provided in order/contract.

The concerned Engineer-in-Charge or Officer-in-Charge may be contacted for further guidance.

53. **SUB-LETTING OF WORKS**

The following is added to the Clause no. 37 of General Conditions of Contract (GCC)-Works:

- (i) Procurement of material, hire of equipment or engagement of labour will not mean sub-contracting.
- (ii) Sub-contracting by the contractor without the approval of IGGL shall be a breach of contract, unless explicitly permitted in the contract.
- (iii) However, if specified in SCC, Sub-contracting for Specialized Items of work is allowed upto certain percentage of work.
- (iv) However, subletting of WHOLE WORKS is prohibited.

54. **RESTRICTING PARTICIPATION OF NCLT REFERRED BIDDERS**

- (i) Offer from the following type of bidders/members of consortium will not be considered:
 - a) Bidders who are undergoing insolvency resolution process or liquidation or bankruptcy proceeding under Insolvency and Bankruptcy Code, 2016 (Code).
 - b) Bidders whose resolution process or liquidation or bankruptcy proceeding is initiated under the Code at any stage of evaluation of bid.
- (ii) It will be responsibility of the bidder/contractor/vendor to inform IGGL within 15 (Fifteen) days from the date of order of insolvency resolution process or liquidation or bankruptcy proceeding passed by the Adjudicating Authority namely National Company Law Tribunal (NCLT) or Debt Recovery Tribunal (DRT) under the Code.
- (iii) If bidder fails to share the information regarding their status of insolvency resolution process or liquidation or bankruptcy proceeding in their bid or at any latter stage, their offer is liable to be rejected by IGGL.

=====

(iv) IGGL reserve the right to cancel / terminate the contract without any liability on the part of IGGL immediately on the commencement of insolvency resolution process or liquidation or bankruptcy proceeding of any party under the contract.

A **declaration in this regard** shall be furnished by the bidder as per proforma enclosed as Form-15 (**F-15**) in Section-V of this tender.

=====

Annexure-I to Section-III

ADDENDUM TO INSTRUCTIONS TO BIDDERS

(INSTRUCTIONS FOR PARTICIPATION IN E-TENDER)

Available on Govt. CPP Portal- <https://etenders.gov.in/eprocure/app>
<https://etenders.gov.in/eprocure/app?page=BiddersManualKit&service=page>

=====

Annexure-II to Section-III

BIDDING DATA SHEET (BDS)

ITB TO BE READ IN CONJUNCTION WITH THE FOLLOWING:

A. GENERAL					
ITB clause	Description				
1.1	The Employer/Owner is: Indradhanush Gas Grid Limited				
	The Invitation for Bids/ Tender no is: IGGL/GHY/C&P/LMC/10-25				
	The name of the Works to be performed is: "HIRING OF AGENCY ON RATE CONTRACT BASIS FOR EXECUTION OF LAST MILE CONNECTIVITY WORKS TO DIFFERENT CGD ENTITIES"				
3	BIDS FROM CONSORTIUM/ JOINT VENTURE <table border="1"> <tr> <td>APPLICABLE</td> <td>☐</td> </tr> <tr> <td>NOT APPLICABLE</td> <td>☒</td> </tr> </table>	APPLICABLE	☐	NOT APPLICABLE	☒
APPLICABLE	☐				
NOT APPLICABLE	☒				
B. BIDDING DOCUMENT					
ITB clause	Description				
8.1	For clarification purposes only, the communication address is: Attention: Kulajit Talukdar, General Manager (C &P) Street Address: Indradhanush Gas Grid Limited (IGGL) 7th Floor, 122A, NRL Centre, Christian Basti, G S Road, Guwahati-781005 Country: INDIA Email: kulajit.talukdar@iggl.co.in				
C. PREPARATION OF BIDS					
ITB clause	Description				
11.1.1	Additional documents to be submitted by the Bidder with its Part-I (Techno-commercial/ Unpriced bid): SCC/Scope of Work refers. - As per Bid Evaluation Criteria (BEC) section-II of this tender.				
12	Additional Provision for Schedule of Rate/ Bid Price are as under: - <u>NIL</u>				

12 & 13	Whether IGGL will be able to avail input tax credit in the instant tender								
	<table border="1"> <tr> <td>YES</td><td>☐</td></tr> <tr> <td>NO</td><td>☒</td></tr> </table>	YES	☐	NO	☒				
YES	☐								
NO	☒								
	Details of Buyer:								
	<table border="1"> <tr> <td>Services to be rendered at</td><td>Indradhanush Gas Grid Limited As per Scope of Work</td></tr> <tr> <td>PAN No.</td><td>AAECI9589F</td></tr> <tr> <td>GST no.</td><td>18AAECI9589F1ZZ</td></tr> <tr> <td>IGGL Bank details</td><td> Account holder's name: INDRADHANUSH GAS GRID LIMITED Bank Name: State Bank of India Account No.: Current A/C No. 37967639273 IFSC Code: SBIN0003030 BRANCH: Dispur Branch, Guwahati, ASSAM-781006 </td></tr> </table>	Services to be rendered at	Indradhanush Gas Grid Limited As per Scope of Work	PAN No.	AAECI9589F	GST no.	18AAECI9589F1ZZ	IGGL Bank details	Account holder's name: INDRADHANUSH GAS GRID LIMITED Bank Name: State Bank of India Account No.: Current A/C No. 37967639273 IFSC Code: SBIN0003030 BRANCH: Dispur Branch, Guwahati, ASSAM-781006
Services to be rendered at	Indradhanush Gas Grid Limited As per Scope of Work								
PAN No.	AAECI9589F								
GST no.	18AAECI9589F1ZZ								
IGGL Bank details	Account holder's name: INDRADHANUSH GAS GRID LIMITED Bank Name: State Bank of India Account No.: Current A/C No. 37967639273 IFSC Code: SBIN0003030 BRANCH: Dispur Branch, Guwahati, ASSAM-781006								
14	The currency of the Bid shall be INR								
15	The bid validity period shall be 03 (Three) Months from final 'Bid Due Date'								
16.1, 16.10 and 38.6	In case 'Earnest Money / Bid Security' (if applicable) is in the form of 'Demand Draft' or 'Banker's Cheque', the same should be favor of Indradhanush Gas Grid Limited payable at GUWAHATI. In case of submission through online banking transaction i.e., IMPS / NEFT / RTGS / SWIFT, etc, the details of IGGL's Bank account are as under: Account Holder's Name: INDRADHANUSH GAS GRID LIMITED Account Number: Current A/C No. 37967639273 IFSC Code: SBIN0003030 BRANCH: Dispur Branch, Guwahati, ASSAM-781006 <u>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 IGGL's Bank Account.</u>								

D. SUBMISSION AND OPENING OF BIDS					
ITB clause	Description				
4.0 of IFB	For the submission of physical document as per clause no. 4.0 of IFB, the Owner's address is: Attention: Kulajit Talukdar, General Manager(C&P) Street Address: Indradhanush Gas Grid Limited (IGGL) 7th Floor, 122A, NRL Centre, Christian Basti, G S Road, Guwahati-781005 Country: INDIA				
26	The bid opening shall take place at: - Online at CPP portal				
E. EVALUATION, AND COMPARISON OF BIDS					
ITB clause	Description				
32	Evaluation Methodology is mentioned in Section-II.				
F. AWARD OF CONTRACT					
ITB clause	Description				
37	State of INDIA which stamp paper is required for Contract Agreement: <u> ASSAM </u>				
38	Contract Performance Security/ Security Deposit <table border="1"><tr><td>APPLICABLE</td><td>☒</td></tr><tr><td>NOT APPLICABLE</td><td>☐</td></tr></table> <u>The value/ amount of Contract Performance Security/ Security Deposit</u> (Refer ITB Clause 38 for more details)	APPLICABLE	☒	NOT APPLICABLE	☐
APPLICABLE	☒				
NOT APPLICABLE	☐				
39.3	Name and contact details of nodal officer are as under: Shri Kulajit Talukdar, General Manager (C&P) Tel: 9531101226/8 Email: kulajit.talukdar@iggl.co.in				

	Whether tendered item is non-splitable or not-divisible: <table border="1"> <tr> <td>YES</td><td>☒</td></tr> <tr> <td>NO</td><td>☐</td></tr> </table>	YES	☒	NO	☐
YES	☒				
NO	☐				
41	Provision of AHR Item: <table border="1"> <tr> <td>APPLICABLE</td><td>☐</td></tr> <tr> <td>NOT APPLICABLE</td><td>☒</td></tr> </table>	APPLICABLE	☐	NOT APPLICABLE	☒
APPLICABLE	☐				
NOT APPLICABLE	☒				
44.1	Quarterly Closure of Contract <table border="1"> <tr> <td>APPLICABLE</td><td>☐</td></tr> <tr> <td>NOT APPLICABLE</td><td>☒</td></tr> </table>	APPLICABLE	☐	NOT APPLICABLE	☒
APPLICABLE	☐				
NOT APPLICABLE	☒				
	Bonus for Early Completion: <table border="1"> <tr> <td>APPLICABLE</td><td>☐</td></tr> <tr> <td>NOT APPLICABLE</td><td>☒</td></tr> </table>	APPLICABLE	☐	NOT APPLICABLE	☒
APPLICABLE	☐				
NOT APPLICABLE	☒				
49	Applicability of provisions relating to Start-ups: <table border="1"> <tr> <td>APPLICABLE</td><td>☐</td></tr> <tr> <td>NOT APPLICABLE</td><td>☒</td></tr> </table>	APPLICABLE	☐	NOT APPLICABLE	☒
APPLICABLE	☐				
NOT APPLICABLE	☒				
	Defect Liability Period/Guarantee / Warranty Period: <table border="1"> <tr> <td>APPLICABLE</td><td>☒</td></tr> <tr> <td>NOT APPLICABLE</td><td>☐</td></tr> </table> 12 (Twelve) months from the date of issuance of certificate of Completion and Acceptance against each Release Order as per GCC	APPLICABLE	☒	NOT APPLICABLE	☐
APPLICABLE	☒				
NOT APPLICABLE	☐				

40	Applicability of provisions relating to MSE: <table border="1"> <tr> <td>APPLICABLE</td><td>☐</td></tr> <tr> <td>NOT APPLICABLE</td><td>☒</td></tr> </table> The Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 is not applicable for tender for procurement of Works. As such, no purchase preference will be given to participating MSE bidders.	APPLICABLE	☐	NOT APPLICABLE	☒
APPLICABLE	☐				
NOT APPLICABLE	☒				
	Applicability of provisions relating to PPP-MII: <table border="1"> <tr> <td>APPLICABLE</td><td>☒</td></tr> <tr> <td>NOT APPLICABLE</td><td>☐</td></tr> </table>	APPLICABLE	☒	NOT APPLICABLE	☐
APPLICABLE	☒				
NOT APPLICABLE	☐				
	Free Issue Material: <table border="1"> <tr> <td>APPLICABLE</td><td>☒</td></tr> <tr> <td>NOT APPLICABLE</td><td>☐</td></tr> </table>	APPLICABLE	☒	NOT APPLICABLE	☐
APPLICABLE	☒				
NOT APPLICABLE	☐				
	Additional Point (PRS): In partial modification to PRS clause, it shall be applicable separately for each intimation by EIC / Firm Order. The PRS amount shall be levied separately for each intimation by EIC / Firm Order. PRS shall be calculated as 0.5% per week of the value of work against each execution order / firm order subject to maximum 5% of the value of that particular execution order / firm order. As an example, if the Total Rate Contract Value is Rs. M and an execution order has been given for an amount of Rs. X (which is less than Rs. M), PRS calculation for this intimation / firm order (amounting to Rs. X) shall be calculated as per the formula= (0.5% * Delay in weeks * Rs. X) subject to maximum 5% of Rs. X). PRS shall be calculated separately in the same fashion for each Intimation / firm order / execution order.				

=====

ANNEXURE-III TO SECTION-III

POLICY TO PROVIDE PURCHASE PREFERENCE AS PER PUBLIC PROCUREMENT (PREFERENCE TO MAKE IN INDIA), ORDER 2017- (Refer BDS for applicability of this clause)

- 1.0 Ministry of Petroleum & Natural Gas vide Notification No. FP-20013/2/2017-FP-PNG- Part(4) (E-41432) dated 26.04.2022 has notified that Public Procurement (Preference to Make in India), Order 2017 (PPP-MII) issued by DPIIT and as amended from time to time shall be applicable to all the Public Sector Undertakings and their wholly owned subsidiaries under MoP&NG with certain modifications.
- 2.0 The Public Procurement (Preference to Make in India), Order 2017 (PPP-MII) issued by DPIIT to encourage 'Make in India' and promote manufacturing & production of goods and services in India with a view to enhancing income and employment.

DEFINITIONS:-

- (i) **Local Content** means the amount of value added in India which shall, unless otherwise prescribed by the Nodal Ministry, be the total value of item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all custom duties) as a proportion of the total value, in percent.
Further Local value addition through services such as transportation, insurance, installation, commissioning, training, and after sale support like AMC/CMC etc. shall be considered in local content calculation.
- (ii) **'Class-I local supplier'** means a supplier or service provider, whose goods, services or works offered for procurement, meets the minimum local content of equal to or more than 50%.
'Class-II local supplier' means a supplier or service provider, whose goods, services or works offered for procurement, meets the minimum local content of more than 20% but less than 50%.
'Non-Local supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has local content less than or equal to 20%.
- (iii) **L1** mean the lowest tender or lowest bid or the lowest quotation received in a tender, bidding process or other procurement solicitation as adjudged in the evaluation process as per tender or other procurement solicitation.
- (iv) **Margin of Purchase Preference:** means the maximum extent to which the price quoted by a Class-I local supplier may be above the L1 for purpose of purchase Preference.

- =====
- (v) **Nodal Ministry** means the Ministry of Petroleum & Natural Gas.
 - (vi) **Procuring Entity** means Indradhanush Gas Grid Limited (IGGL).
 - (vii) **Works** means all the works as per Rule 130 of GFR-2017 also include 'turnkeyworks'

4.0 **Margin of Purchase Preference:** The margin of purchase preference shall be 20%.

5.0 **ELIGIBILITY OF 'CLASS-I LOCAL SUPPLIER'/ 'CLASS-II LOCAL SUPPLIER'/ 'NON-LOCAL SUPPLIERS' FOR DIFFERENT TYPES OF PROCUREMENT**

- (a) In procurement of all goods, services or works in respect of which the Nodal Ministry / Department has communicated that there is sufficient local capacity and local competition, only 'Class-I local supplier', shall be eligible to bid irrespective of purchase value.
- (b) Only 'Class-I local supplier' and 'Class-II local supplier', shall be eligible to bid in procurements undertaken by procuring entities, except when Global tender enquiry/ International Competitive bidding has been issued. In global tender enquiries/ International Competitive bidding 'Non local suppliers' shall also be eligible to bid along with 'Class-I local suppliers' and 'Class-II local suppliers'.
- (c) Works includes Engineering, Procurement and Construction (EPC) contracts and services include System Integrator (SI) contracts
- (d) HP-HT Operations in upstream oil and gas business activities shall be exempted from this order

6.0 **PURCHASE PREFERENCE METHODOLOGY UNDER PPP-MII (SUBJECT TO QUANTITY DISTRIBUTION APPLICABLE TO MSES AS PER PUBLIC PROCUREMENT POLICY FOR MSE 2012, REFER EXAMPLES GIVEN BELOW):**

- (a) Purchase preference shall be given to 'Class-I local supplier' in procurements in the manner specified here under.
- (b) In the procurements of goods or works which are covered by para 5 (b) above and which are divisible in nature, the 'Class-I local supplier' shall get purchase preference over 'Class-II local supplier' as well as 'Non-local supplier', as per following procedure:
 - i. Among all qualified bids, the lowest bid will be termed as L1. If L1 is 'Class-I local supplier', the contract for full quantity will be awarded to L1.
 - ii. If L1 bid is not a 'Class-I local supplier', 50% of the order quantity shall be awarded to L1. Thereafter, the lowest bidder among the 'Class-I local supplier' will be invited to match the L1 price for the remaining 50% quantity subject to the Class-I local supplier's quoted price falling within

- =====
- the margin of purchase preference, and contract for that quantity shall be awarded to such 'Class-I local supplier' subject to matching the L1 price. In case such lowest eligible 'Class-I local supplier' fails to match the L1 price or accepts less than the offered quantity, the next higher 'Class-I local supplier' within the margin of purchase preference shall be invited to match the L1 price for remaining quantity and so on, and contract shall be awarded accordingly. In case some quantity is still left uncovered on Class-I local suppliers, then such balance quantity may also be ordered on the L1 bidder.
- c) In the procurements of goods or works which are covered by para 5 (b) and which are not divisible in nature, and in procurement of services where the bid is evaluated on price alone, the 'Class-I local supplier' shall get purchase preference over 'Class-II local supplier' as well as 'Non-local supplier', as per following procedure.
- i. Among all qualified bids, the lowest bid will be termed as L1. If L1 is 'Class-I local supplier', the contract will be awarded to L1.
 - ii. If L1 is not 'Class-I local supplier', the lowest bidder among the 'Class-I local supplier', will be invited to match the L1 price subject to Class-I local supplier's quoted price falling within the margin of purchase preference, and the contract shall be awarded to such 'Class-I local supplier' subject to matching the L1 price.
 - iii. In case such lowest eligible 'Class-I local supplier' fails to match the L1 price, the 'Class-I local supplier' with the next higher bid within the margin of purchase preference shall be invited to match the L1 price and so on and contract shall be awarded accordingly. In case none of the 'Class-I local supplier' within the margin of purchase preference matches the L1 price, the contract may be awarded to the L1 bidder.
 - iv. "Class-II local supplier" will not get purchase preference in any procurement.
- d) **Applicability in tenders where contract is to be awarded to multiple bidders** - In tenders where contract is awarded to multiple bidders subject to matching of L1 rates or otherwise which are covered by para 5 (b), the 'Class-I local supplier' shall get purchase preference over 'Class-II local supplier' as well as 'Non-local supplier', as per following procedure:
- i) If 'Class-I Local suppliers' qualify for award of contract for at least 50% of the tendered quantity in any tender, the contract may be awarded to all the qualified bidders as per award criteria stipulated in the bid documents. However, in case 'Class-I Local suppliers' do not qualify for award of contract for at least 50% of the tendered quantity, purchase preference should be given to the 'Class-I local supplier' over 'Class-II local suppliers' / 'Non local suppliers' provided that their quoted

=====

rate falls within 20% margin of purchase preference of the highest quoted bidder considered for award of contract so as to ensure that the 'Class-I Local suppliers' taken in totality are considered for award of contract for at least 50% of the tendered quantity.

- ii) First purchase preference has to be given to the lowest quoting 'Class-I local supplier', whose quoted rates fall within 20% margin of purchase preference, subject to its meeting the prescribed criteria for award of contract as also the constraint of maximum quantity that can be sourced from any single supplier. If the lowest quoting 'Class-I local supplier', does not qualify for purchase preference because of aforesaid constraints or does not accept the offered quantity, an opportunity may be given to next higher 'Class-I local supplier', falling within 20% margin of purchase preference, and so on.

7.0 In case a bidder (Class-I Local supplier) is eligible to seek benefit under Policy for Preference under Public Procurement (Preference to Make in India), Order 2017 as well as Public Procurement Policy for MSE 2012 (PPP for MSE 2012), then the bidder should categorically confirm its option to choose benefits against only one of the two policies i.e. either PPP-MII and MSE policy in Form-1. The option once exercised cannot be modified subsequently.

Purchase preference benefits shall be extended to the bidder based on the declared option subject to the bidder meeting the requirements contained in that purchase preference policy

In case a MSEs bidder opts for purchase preference based on PPP-MII, such bidder shall not be entitled to claim purchase preference benefit available to MSE Bidders under PPP-2012. However, the exemptions from furnishing Bidding Document fee and Bid security/EMD shall continue to be available to such MSE Bidder

While for evaluating a particular bid that bidder's option (to avail any one out of two applicable purchase preference policies, i.e., PPP-MII or PPP-2012) will be considered, for price matching opportunities and distribution of quantities among bidders, the precedence shall be in the following order:-

- (i) Public Procurement Policy for MSE 2012
- (ii) Public Procurement (Preference to Make in India), Order 2017

=====

8.0 Example to deal Various situations in case a bidder is eligible to seek benefit under Public Procurement (Preference to Make in India), Order 2017 as well as Public Procurement Policy for MSE 2012 (PPP for MSE 2012):

(I) Non divisible item

L1 bidder is non MSE, Non Local supplier/ Class-II local supplier as per PPP-MII

L2 bidder is Class-I Local supplier as per PPP-MII (prices within 20%)

L3 bidder is MSE bidder (prices within 15%)

MSE bidder shall be given preference to match the L1 price. If bidder matches the L1 price, order shall be placed on him, otherwise, option for matching the L1 price shall be given to L2 bidder (PPP-MII)

(II) Divisible item-Case 1

L1 bidder is non MSE, Non Local supplier/ Class-II local supplier as per PPP-MII

L2 bidder is Class-I Local supplier as per PPP-MII (within 20%)

L3 bidder is MSE bidder (within 15%)

MSE bidder shall be given preference to match the L1 price. If bidder matches the L1 price, order shall be placed on him for the quantity specified in the bidding document for MSEs (i.e. 25% of the tendered quantity). For 50% of tendered quantity option for matching the L1 price shall be given to L2 bidder (Class-I Local supplier as per PPP-MII). Balance quantity (i.e. 25% of the tendered quantity) shall be awarded to original L1 bidder.

(III) Divisible item-Case 2

L1 bidder is non MSE, Non Local supplier/ Class-II as per PPP-MII
L2 bidder is Class-I Local supplier as per PPP-MII (within 20%)

L3 bidder is MSE bidder (within 15%)

L4 bidder is MSE bidder (within 15%)

MSE bidders shall be given preference to match the L1 price. If bidders matched the L1 price, order shall be placed on each of them for 12.5% of the tendered quantity. In case L3 or L4 bidder refuses, the order shall be placed on remaining MSE bidder who matches the L1 prices for 25% of the quantity. For 50% of tendered quantity option for matching the L1 price shall be given to L2 bidder (Class-I Local supplier as per PPP-MII). Balance quantity (i.e., 25% of the tendered quantity) shall be awarded to original L1 bidder

- =====
- (IV) In case L1 bidder is MSE bidder, the entire work shall be awarded to him without resorting to purchase preference to Class-I Local supplier as per PPP- MII.
 - (V) In case L1 bidder is a Local supplier as per PPP-MII, purchase preference shall be resorted to MSE bidder as per PPP 2012 only.

8.0 VERIFICATION OF LOCAL CONTENT/ DOMESTIC VALUE ADDITION

- a. The 'Class-I local supplier'/ 'Class-II local supplier' at the time of tender, bidding or solicitation shall require to indicate percentage of local content and provide **self-certification** (as per proforma at Form-2) that the item offered meets the minimum local content for 'Class-I local supplier'/ 'Class-II local supplier' as the case may be and shall give details of the location(s) at which the local value addition is made.
- b. VOID
- c. In case a complaint is received by the procuring agency relating to implementation of this order including the claim of a bidder regarding local content/ domestic value addition, the same shall be referred to Competent Authority who is empowered to look into procurement related complaints.
- d. Nodal Ministry may constitute committees with internal and external experts for independent verification of self-declarations and auditor's/accountant's certificates on random basis and in the case of complaints. A complaint fee of Rs.2 Lakh or 1% of the value of the domestically manufactured products being procured (subject to a maximum of Rs. 5 Lakh), whichever is higher, shall be paid by Demand Draft to be deposited with IGGL. In case, the complaint is found to be incorrect, the complaint fee shall be forfeited. In case, the complaint is upheld and found to be substantially correct, deposited fee of the complainant would be refunded without any interest.
- e. In case of false declarations, IGGL shall initiate action for banning such manufacturer/supplier/service provider as per as per IGGL's extant "Procedure for action in case Corrupt/Fraudulent/Collusive/Coercive Practices"
- f. A supplier who has been debarred by any procuring entity for violation of this Order shall not be eligible for preference under this Order for procurement by any other procuring entity for the duration of the debarment. The debarment for such other procuring entities shall take effect prospectively from the date on which it comes to the notice of other procurement entities, in the manner prescribed under paragraph g below.
- g. The Department of Expenditure shall issue suitable instructions for the effective and smooth operation of this process, so that:
 - i. The fact and duration of debarment for violation of this Order by any procuring entity are promptly brought to the notice of the Member-

=====

Convenor of the Standing Committee and the Department of Expenditure through the concerned Ministry /Department or in some other manner;

- ii. on a periodical basis such cases are consolidated and a centralized list or decentralized lists of such suppliers with the period of debarment is maintained and displayed on website(s);
- iii. in respect of procuring entities other than the one which has carried out the debarment, the debarment takes effect prospectively from the date of uploading on the website(s) in the such a manner that ongoing procurements are not disrupted.

9.0 **RECIPROCITY CLAUSE**

- i. When a Nodal Ministry/Department identifies that Indian suppliers of an item are not allowed to participate and/ or compete in procurement by any foreign government, due to restrictive tender conditions which have direct or indirect effect of barring Indian companies such as registration in the procuring country, execution of projects of specific value in the procuring country etc., it shall provide such details to all its procuring entities including CMDs/CEOs of PSEs/PSUs, State Governments and other procurement agencies under their administrative control and GeM for appropriate reciprocal action.
- ii. Entities of countries which have been identified by the nodal Ministry/Department as not allowing Indian companies to participate in their Government procurement for any item related to that nodal Ministry shall not be allowed to participate in Government procurement in India for all items related to that nodal Ministry/ Department, except for the list of items published by the Ministry/ Department permitting their participation.
- iii. The term 'entity' of a country shall have the same meaning as under the FDI Policy of DPIIT as amended from time to time.

=====

FORM-1 TO ANNEXURE-III TO SECTION-III

UNDERTAKING FOR APPLICABILITY OF POLICY (APPLICABLE FOR MSEs and CLASS-I LOCAL SUPPLIER ONLY)

To,

M/s INDRADHANUSH GAS GRID LIMITED

7TH Floor, 122A, NRL Centre, Christian Basti, G S Road, Guwahati-781005, Assam

SUB:

TENDER NO:

Dear Sir

We, M/s____(***Name of Bidder***) hereby confirm that following purchase preference to be considered: -

Description	Preference
Purchase Preference under Public Procurement Policy for MSE	
Preference Under Public Procurement (Preference to Make in India), Order 2017 (PPP-MII)	

Note:

- (i) Please indicate your preference against only one policy.
- (ii) The above preference shall be extended only after submission of requisite documents (as mentioned in the tender documents).
- (iii) In case a bidder is eligible to seek benefit under PPP-MII order as well as PPP for MSE2012, then the bidder should categorically seek benefits against only one of the two policies i.e. either PPP-MII and MSE policy.
- (iv) In case a MSEs bidder opts for purchase preference based on PPP-MII order, he shall not be entitled to claim purchase preference benefit available to MSE Bidders under PPP for MSE 2012. However, the exemptions from furnishing Bidding Document fee and Bid security/EMD shall continue to be available to MSE Bidders
- (v) The option once exercised cannot be modified subsequently.
- (vi) In case MSE bidder is opting the PPP-MII policy and emerges other than L1 bidder, then only Purchase Preference as per PPP-MSE policy is not applicable.

Place:

[Signature of Authorized Signatory of Bidder]

Date:

Name:

Designation:

Seal:

=====

FORM-2 TO ANNEXURE-III TO SECTION-III

SELF CERTIFICATION BY BIDDER WHO CLASS-I LOCAL SUPPLIER/ CLASS-II LOCAL SUPPLIER TOWARDS MANDATORY MINIMUM LOCAL CONTENT/ DOMESTIC VALUE ADDITION

To,

M/s INDRADHANUSH GAS GRID LIMITED

7th Floor, 122A, NRL Centre, Christian Basti, G S Road, Guwahati-781005, Assam

SUB:

TENDER NO:

Dear Sir

We, M/s_____ **(Name of Bidder)** confirm that as per the definition of policy we are:

Class-I Local supplier []

Class-II Local Supplier []

(Bidder is to tick appropriate option (✓) above).

It is further confirm that M/s_____ **(Name of Bidder)** meet the mandatory minimum Local content/Domestic Value Addition requirement for Class-I Local supplier/ Class-II Local supplier (as the case may be) under Public Procurement (Preference to Make in India), Order 2017 (PPP-MII) and has value addition of.....%.

The details of the location (s) at which the local value addition is made is as under:

.....
.....
.....

We further confirm that in case we fail to meet the minimum local content/domestic value addition, the same shall be treated false information and IGGL will take action as per provision of tender document.

Place:

Date:

[Signature of Authorized Signatory of Bidder]

Name:

Designation:

Seal:

=====

FORM-3 TO ANNEXURE-III TO SECTION-III

**CERTIFICATE BY STATUTORY AUDITOR/COST AUDITOR/ CHARTERED
ACCOUNTANT OF BIDDER TOWARDS MANDATORY MINIMUM LOCAL CONTENT/
DOMESTIC VALUE ADDITION**

To,

M/s INDRADHANUSH GAS GRID LIMITED

7th Floor, 122A, NRL Centre, Christian Basti, G S Road, Guwahati-781005, Assam

SUB:

TENDER NO:

Dear Sir

We, _____ the statutory auditor/ cost auditor/chartered accountant (not an employee of the company) of M/s. _____ (***Name of Bidder***) hereby certify that as per definition specified in policy, M/s. _____ (***Name of Bidder***) is:

Class-I Local supplier []

Class-II Local Supplier []

(Certifier is to tick appropriate option (✓) above).

It is further confirm that M/s _____ (***Name of Bidder***) quoted vide offer no. _____ dated _____ against tender no. _____ meet the mandatory minimum Local content/Domestic Value Addition requirement for Class-I Local supplier/ Class-II Local supplier (as the case may be) under Policy for Public Procurement (Preference to Make in India), Order 2017 (PPP-MII) and has value addition of.....%.

Name of Audit Firm:

Date:

[Signature of Authorized Signatory]

Name:

Designation:

Seal:

Membership No.

=====

ANNEXURE-IV

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

A Definitions:

- A.1 "Corrupt Practice" means the offering, giving, receiving or soliciting, directly or indirectly, anything of value to improperly influence the actions in selection process or in contract execution.
"Corrupt Practice" also includes any omission for misrepresentation that may mislead or attempt to mislead so that financial or other benefit may be obtained or an obligation avoided.
- A2 "Fraudulent Practice" means and include any act or omission committed by a agency or with his connivance or by his agent by misrepresenting/ submitting false documents and/ or false information or concealment of facts or to deceive in order to influence a selection process or during execution of contract/ order.
- A3 "Collusive Practice amongst bidders (prior to or after bid submission)" means a scheme or arrangement designed to establish bid prices at artificial non-competitive levels and to deprive the Employer of the benefits of free and open competition.
- A.4 "Coercive practice" means impairing or harming or threatening to impair or harm directly or indirectly, any agency or its property to influence the improperly actions of an agency, obstruction of any investigation or auditing of a procurement process.
- A.5 "Vendor/Supplier/Contractor/Consultant/Bidder" is herein after referred as "Agency"
- A.6 "Appellate Authority" shall mean Committee of Directors consisting of Director (Finance) and Director (BD) for works centers under Director (Projects). For all other cases committee of Directors shall consist of Director (Finance) & Director (Projects).
- A.7 "Competent Authority" shall mean the authority, who is competent to take final decision for Suspension of business dealing with an Agency/ (ies) and Banning of business dealings with Agency/ (ies) and shall be the "Director" concerned.
- A.8 "Allied Agency" shall mean all concerns which come within the sphere of effective influence of the banned/suspended agency shall be treated as allied agency. In determining this, the following factors may be taken into consideration:
- Whether the management is common;
 - Majority interest in the management is held by the partners or directors of banned/ suspended agency;
 - Substantial or majority shares are owned by the banned/ suspended agency and by virtue of this it has a controlling voice.
 - Directly or indirectly controls, or is controlled by or is under common control with another bidder.
 - All successor agency will also be considered as allied agency.
- A.9 "Investigating Agency" shall mean any department or unit of IGGL investigating into the conduct of Agency/ party and shall include the Vigilance Department of the IGGL, Central Bureau of Investigation, State Police or any other agency set up by the Central or state government having power to investigate.
- A.10 "Obstructive practice": materially impede the procuring entity's investigation into allegations of one or more of the above mentioned practices either by deliberately destroying, falsifying, altering; or by concealing of evidence material to the investigation; or by making false

=====

statements to investigators and/ or by threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or by impeding IGGL 's rights of audit or access to information.

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

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

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

Further, such agency shall be banned for future business with IGGL for a period specified in para B 2.2 below from the date of issue of banning order.

B.2 Irregularities noticed after award of contract

(i) During execution of contract:

If an agency, is found to have indulged in corrupt/fraudulent/collusive/coercive practices, action shall be initiated for putting the agency on banning list.

After conclusion of process and issuance of Speaking order for putting party on banning list, the order (s)/ contract (s) where it is concluded that such irregularities have been committed shall be terminated and Contract cum Performance Bank Guarantee (CPBG) submitted by agency against such order (s)/ contract (s) shall also be forfeited. Further such order/ contract will be closed following the due procedure in this regard.

The amount that may have become due to the contractor on account of work already executed by him shall be payable to the contractor and this amount shall be subject to adjustment against any amounts due from the contractor under the terms of the contract. No risk and cost provision will be enforced in such cases.

Suspension of order/ contract:

Further, only in the following situations, the concerned order (s)/ contract(s) (where Corrupt/Fraudulent/ Collusive/ Coercive Practices are observed) and payment shall be suspended after issuance of Suspension cum Show Cause Notice:

- (i) Head of Corporate Vigilance Department/CVO based on the investigation by them, recommend for specific immediate action against the agency.
- (ii) Head of Corporate Vigilance Department/CVO based on the input from investigating agency, forward for specific immediate action against the agency.

Suspension cum Show Cause Notice being issued in above cases after approval of the competent authority (as per provisions mentioned under Clause no. D) shall also include the provision for suspension of Order (s)/ Contract (s) and payment. Accordingly, after issuance of Suspension cum Show Cause Notice, the formal

communication for suspension of Order (s)/ Contract (s) and payment with immediate effect will be issued by the concerned person of IGGL.

During suspension, Contractor/ Service Providers will be allowed to visit the plant/ site for upkeep of their items/ equipment, IGGL's issued materials (in case custody of same is not taken over), demobilizing the site on confirmation of EIC, etc.

In addition to above, Recovery of payments (other than due payments) including balance advance payments, if any, made by along with interest thereon at the prevailing rate shall be recovered.

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

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

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

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

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

B.2.2 Period of Banning

The period of banning of agencies indulged in Corrupt/ Fraudulent/ Collusive/Coercive Practices shall be as under and to be reckoned from the date of banning order:

Sl. No.	Description	Period of banning from the date of issuance of Banning order
1	Misrepresentation/False information other than pertaining to BEC of tender but having impact on the selection process. For example, if an agency confirms not being in holiday in IGGL /PSU's PMC or banned by PSUs/ Govt. Dept., liquidation, bankruptcy & etc. and subsequently it is found otherwise, such acts shall be considered in this category.	06 Months

2	Corrupt/Fraudulent (except mentioned at sl. no. 1 above) /Collusive/Coercive Practices	01 year
2.1	If an agency again commits Corrupt/Fraudulent (except mentioned at sl. no. 1 above) /Collusive/ Coercive Practices in subsequent cases after their banning, such situation of repeated offense to be dealt with more severity.	2 years (in addition to the period already served)
3	Indulged in unauthorized disposal of materials provided by IGGL	2 years
4	If act of vendor/ contractor is a threat to the National Security	2 years

C Effect of banning on other ongoing contracts/ tenders

- C.1 If an agency is put on Banning, such agency should not be considered in ongoing tenders/future tenders.
- C.2 However, if such an agency is already executing other order (s)/ contract (s) where no corrupt/fraudulent/ collusive/coercive practice is found, the agency should be allowed to continue till its completion without any further increase in scope except those incidental to original scope mentioned in the contract.
- C.3 If an agency is put on the Banning List during tendering and no irregularity is found in the case under process:
- C.3.1 after issue of the enquiry /bid/tender but before opening of Technical bid, the bid submitted by the agency shall be ignored.
- C.3.2 after opening Technical bid but before opening the Price bid, the Price bid of the agency shall not be opened and BG/EMD submitted by the agency shall be returned to the agency.
- C.3.3 After opening of price, BG/EMD made by the agency shall be returned; the offer of the agency shall be ignored & will not be further evaluated. In case such agency is lowest (L-1), next lowest bidder shall be considered as L-1.

D. Procedure for Suspension of Bidder

D.1 Initiation of Suspension

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

- Corporate Vigilance Department based on the fact of the case gathered during investigation by them recommend for specific immediate action against the agency.
- Corporate Vigilance Department based on the input from Investigating agency, forward for specific immediate action against the agency.
- Non performance of Vendor/Supplier/Contractor/Consultant leading to termination of Contract/ Order.

D.2 Suspension Procedure:

- D.2.1 The order of suspension would operate initially for a period not more than six months and is to be communicated to the agency and also to Corporate Vigilance Department. Period of suspension can be extended with the approval of the Competent Authority by one month at a time with a ceiling of six months pending a conclusive decision to put the agency on banning list.
- D.2.2 During the period of suspension, no new business dealing may be held with the agency.
- D.2.3 Period of suspension shall be accounted for in the final order passed for banning of business with the agency.
- D.2.4 The decision regarding suspension of business dealings should also be communicated to the agency.
- D.2.5 If a prima-facie, case is made out that the agency is guilty on the grounds which can result in banning of business dealings, proposal for issuance of suspension order and show cause notice shall be put up to the Competent Authority. The suspension order and show cause notice must include that (i) the agency is put on suspension list and (ii) why action should not be taken for banning the agency for future business from IGGL. The competent authority to approve the suspension will be same as that for according approval for banning.

D 3 Effect of Suspension of business:

Effect of suspension on other on-going/future tenders will be as under:

- D.3.1 No enquiry/bid/tender shall be entertained from an agency as long as the name of agency appears in the Suspension List.
- D.3.2 If an agency is put on the Suspension List during tendering:
- D.3.2.1 after issue of the enquiry /bid/tender but before opening of Technical bid, the bid submitted by the agency shall be ignored.
- D.3.2.2 after opening Technical bid but before opening the Price bid, the Price bid of the agency shall not be opened and BG/EMD submitted by the agency shall be returned to the agency.
- D.3.2.3 After opening of price, BG/EMD made by the agency shall be returned; the offer of the agency shall be ignored & will not be further evaluated In case such agency is lowest (L-1), next lowest bidder shall be considered as L-1.
- D.3.3 The existing contract (s)/ order (s) under execution shall continue.
- D.3.4 Tenders invited for procurement of goods, works and services shall have provision that the bidder shall submit a undertaking to the effect that (i) neither the bidder themselves nor their allied agency/(ies) are on banning list of IGGL or the Ministry of Petroleum and Natural Gas and (ii) bidder is not banned by any Government department/ Public Sector.

F. Appeal against the Decision of the Competent Authority:

- F.1 The agency may file an appeal against the order of the Competent Authority for putting the agency on banning list. The appeal shall be filed to Appellate Authority. Such an appeal shall be preferred within one month from the of receipt of banning order.
- F.2 Appellate Authority would consider the appeal and pass appropriate order which shall be communicated to the party as well as the Competent Authority.
- F.3 Appeal process may be completed within 45 days of filing of appeal with the Appellate Authority.
- G. Wherever there is contradiction with respect to terms of 'Integrity pact' , GCC and 'Procedure for action in case of Corrupt/Fraudulent/ Collusive/Coercive Practice', the provisions of 'Procedure for action in case of Corrupt/Fraudulent/ Collusive/Coercive Practice' shall prevail.

=====

ANNEXURE-V

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

1.0 GENERAL

A system for evaluation of Vendors/ Suppliers/Contractors/ Consultants and their performance is a key process and important to support an effective purchasing & contracting function of an organization.

Performance of all participating Vendors/ Suppliers/Contractors/ Consultants need to be closely monitored to ensure timely receipt of supplies from a Vendor, completion of an assignment by a Consultant or complete execution of order by a contractor within scheduled completion period. For timely execution of projects and meeting the operation & maintenance requirement of operating plants, it is necessary to monitor the execution of order or contracts right from the award stage to completion stage and take corrective measures in time.

2.0 OBJECTIVE

The objective of Evaluation of Performance aims to recognize, and develop reliable Vendors/ Suppliers/Contractors/ Consultants so that they consistently meet or exceed expectations and requirements.

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

3.0 METHODOLOGY

- i) Preparation of Performance Rating Data Sheet
Performance rating data Sheet for each and every Vendor/ Supplier/Contractor/Consultant for all orders/Contracts with a value of Rs. 50 Lakhs and above is recommended to be drawn up. Further, Performance rating data Sheet for orders/contracts of Vendor/Supplier/Contractor/ Consultant who are on watch list/holiday list/ banning list shall be prepared irrespective of order/ contract value. These data sheets are to be separately prepared for orders/ contracts related to Projects and O&M. Format, Parameters, Process, responsibility for preparation of Performance Rating Data Sheet are separately mentioned.
- ii) Measurement of Performance
Based on the parameters defined in Data Sheet, Performance of concerned Vendor/ Supplier/Contractor/ Consultant would be computed and graded accordingly. The measurement of the performance of the Party would be its ability to achieve the minimum scoring of 60% points in the given parameters.

- =====
- iii) Initiation of Measures:
Depending upon the Grading of Performance, corrective measures would be initiated by taking up the matter with concerned Vendor/ Supplier/Contractor/ Consultant. Response of Vendor/ Supplier/Contractor/ Consultant would be considered before deciding further course of action.
 - iv) Implementation of Corrective Measures:
Based on the response of Vendor/ Supplier/Contractor/ Consultant, concerned Engineer-in-Charge for the Projects and/or OIC in case of O&M would recommend for continuation or discontinuation of such party from the business of IGGL.
 - v) Orders/contracts placed on Proprietary/OEM basis for O&M will be evaluated and, if required, corrective action will be taken for improvement in future.

4.0 **EXCLUSIONS:**

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

- i) Orders/Contracts below the value of Rs. 50 Lakhs if Vendor/ Supplier/Contractor/ Consultant is not on watch list/ holiday list/ banning list.
- ii) Orders for Misc./Administrative items/ Nonstock Non valued items.

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

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

5.1 FOR PROJECTS

- i) Evaluation of performance of Vendors/ Suppliers/Contractors/ Consultants in case of PROJECTS shall be done immediately with commissioning of any Project.
- ii) On commissioning of any Project, EIC (Engineer-in-charge)/ Project-in-charge shall prepare a Performance Rating Data Sheet (Format at Annexure-1) for all Orders and Contracts.
- iii) Depending upon the Performance Rating, following action shall be initiated by Engineer-in-charge/Project-in-charge:

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

- =====
- iv) Reply from concerned Vendor/ Supplier/Contractor/ Consultant shall be examined. In case of satisfactory reply, Performance Rating data Sheet to be closed with a letter to the concerned for improving performance in future.
 - v) When no reply is received or reasons indicated are unsatisfactory, the following actions need to be taken:
 - A) Where performance rating is "POOR" (as per Performance Rating carried out after execution of Order/ Contract and where no reply/ unsatisfactory reply is received from party against the letter seeking the explanation from Vendor/Supplier/Contractor/ Consultant along with sharing the performance rating)

Recommend such defaulting Vendor / Supplier / Contractor / Consultant for the following action:

1. Poor Performance on account of Quality (if marks obtained against Quality parameter is less than 20):
 - (a) **First Instance: Holiday (Red Card) for One Year**
 - (b) **Subsequent instance (s) in other ongoing order (s)/ contract (s) or new order (s) /contact (s) on such Vendor/ Supplier/ Contractor/ Consultant: Holiday (Red Card) for Two Years**
2. Poor Performance on account of other than Quality (if marks obtained against Quality parameter is more than 20):
 - (a) **First such instance: Advisory notice (Yellow Card)** shall be issued and Vendor/Supplier/Contractor/ Consultant shall be put on watch list for a period of Two (2) Years.
 - (b) **Second such instance in other ongoing order (s)/ contract (s) or new order (s) /contact (s) on such Vendor/ Supplier/ Contractor/ Consultant: Putting on Holiday (Red Card) for a period of One Year**
 - (c) **Subsequent instances (more than two) in other ongoing order (s)/ contract (s) or new order (s) /contact (s) on such Vendor/ Supplier/ Contractor/ Consultant: Putting on Holiday (Red Card) for a period of Two Years.**
- B) Where Poor/Non-Performance leading to termination of contract or Offloading of contract due to poor performance attributable to Vendor/Supplier/ Contractor/Consultant (under Clause no. 2.17.3 of GCC-Services)
 - (a) **First instance: Advisory notice (Yellow Card)** shall be issued and Vendor/Supplier/Contractor /Consultant shall be put on watch list for a period of Two (2) Years.

Further such vendor will not be allowed to participate in the re-tender of the same supply/work/services of that location which has terminated / offloaded. Moreover, it will be ensured that all other action as per provision of contract including forfeiture of Contract Performance Security (CPS) etc. are undertaken.

However, such vendor will be allowed to participate in all other tenders and to execute other ongoing order/ contract (s) or new contract/ order (s).

The Yellow card will be automatically revoked after a period of two years unless the same is converted into Red Card due to subsequence instances of poor/ non-performance in other ongoing order (s)/ contract (s) or new order (s) /contract (s) on such Vendor/ Supplier/ Contractor/ Consultant.

(b) **Second instances** in other ongoing order (s)/ contract (s) or new order (s) /contract (s) on such Vendor/ Supplier/ Contractor/ Consultant: **Holiday (Red Card)** for period of One Year and they shall also to be considered for Suspension.

(c) **Subsequent instances (more than two)** in other ongoing order (s)/ contract (s) or new order (s) /contract (s) on such Vendor/ Supplier/ Contractor/ Consultant: **Holiday (Red Card) for period of Two Years and they shall also to be considered for Suspension.**

(C) Where Performance rating is "FAIR":

Issuance of warning to such defaulting Vendor/ Supplier/Contractor/ Consultant to improve their performance.

5.2 FOR CONSULTANCY JOBS

Monitoring and Evaluation of consultancy jobs will be carried out in the same way as described in para 5.1 for Projects.

5.3 FOR OPERATION & MAINTENANCE

- i) Evaluation of performance of Vendors/ Suppliers/Contractors/ Consultants in case of Operation and Maintenance shall be done immediately after execution of order/ contract.
- ii) After execution of orders a Performance Rating Data Sheet (Format at Annexure-2) shall be prepared for Orders by Site C&P and for Contracts/Services by respective Engineer-In-Charge.
- iii) Depending upon Performance Rating, following action shall be initiated by EIC:

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

- =====
- iv) Reply from concerned Vendor/ Supplier/Contractor/ Consultant shall be examined. In case of satisfactory reply, Performance Rating data Sheet to be closed with a letter to the concerned for improving performance in future.
 - v) When no reply is received or reasons indicated are unsatisfactory, the following actions need to be taken:

A) Where performance rating is "POOR" (as per Performance Rating carried out after execution of Order/ Contract and where no reply/ unsatisfactory reply is received from party against the letter seeking the explanation from Vendor/Supplier/Contractor/ Consultant along with sharing the performance rating)

Recommend such defaulting Vendor / Supplier / Contractor / Consultant for the following action:

1. Poor Performance on account of Quality (if marks obtained against Quality parameter is less than 20):

- (a) **First Instance: Holiday (Red Card) for One Year**
- (b) **Subsequent instance (s) in other ongoing order (s)/ contract (s) or new order (s) /contact (s) on such Vendor/ Supplier/ Contractor/ Consultant: Holiday (Red Card) for Two Years**

2. Poor Performance on account of other than Quality (if marks obtained against Quality parameter is more than 20):

- (a) **First such instance: Advisory notice (Yellow Card)** shall be issued and Vendor/Supplier/Contractor/ Consultant shall be put on watch list for a period of Two (2) Years.
- (b) **Second such instance in other ongoing order (s)/ contract (s) or new order (s) /contact (s) on such Vendor/ Supplier/ Contractor/ Consultant: Putting on Holiday (Red Card) for a period of One Year**
- (c) **Subsequent instances (more than two) in other ongoing order (s)/ contract (s) or new order (s) /contact (s) on such Vendor/ Supplier/ Contractor/ Consultant: Putting on Holiday (Red Card) for a period of Two Years.**

B) Where Poor/Non-Performance leading to termination of contract or Offloading of contract due to poor performance attributable to Vendor/Supplier/ Contractor/Consultant under Clause no. 2.17.3 of GCC-Services)

- (a) **First instance: Advisory notice (Yellow Card)** shall be issued and Vendor/Supplier/Contractor /Consultant shall be put on watch list for a period of Two (2) Year.

=====

Further such vendor will not be allowed to participate in the re-tender of the same supply/work/services of that location which has terminated / offloaded. Moreover, it will be ensured that all other action as per provision of contract including forfeiture of Contract Performance Security (CPS) etc. are undertaken.

However, such vendor will be allowed to participate in all other tenders and to execute other ongoing order/ contract (s) or new contract/ order (s).

The Yellow card will be automatically revoked after a period of two years unless the same is converted into Red Card due to subsequence instances of poor/ non-performance in other ongoing order (s)/ contract (s) or new order (s) /contact (s) on such Vendor/ Supplier/ Contractor/ Consultant.

(b) **Second instances** in other ongoing order (s)/ contract (s) or new order (s) /contact (s) on such Vendor/ Supplier/ Contractor/ Consultant: **Holiday (Red Card)** for period of One Year and they shall also to be considered for Suspension.

(c) **Subsequent instances (more than two)** in other ongoing order (s)/ contract (s) or new order (s) /contact (s) on such Vendor/ Supplier/ Contractor/ Consultant: **Holiday (Red Card) for period of Two Years and they shall also to be considered for Suspension.**

(C) Where Performance rating is "FAIR"

Issuance of warning to such defaulting Vendors/Contractors/Consultants to improve their performance.

6.0 **REVIEW & RESTORATION OF PARITES PUT ON HOLIDAY**

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

Further, in case Vendor/ Supplier/Contractor/ Consultant is put on holiday due to quality, and new order is placed on bidder after restoration of Vendor/ Supplier/Contractor/ Consultant, such order will be properly monitored during execution stage by the concerned site.

7.0 **EFFECT OF HOLIDAY**

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

7.2 However, if such Vendor/ Supplier/Contractor/ Consultant is already executing any other order/ contract and their performance is satisfactory in terms of the relevant contract, should be allowed to continue till its completion without any further increase in scope except those incidental to original scope mentioned in the contract. In such a case CPBG will not be

=====

forfeited and payment will be made as per provisions of concerned contract. However, this would be without prejudice to other terms and conditions of the contract.

7.3. Effect on other ongoing tendering:

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

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

7.3.3 After opening of price, BG/EMD made by the agency shall be returned; the offer of the agency shall be ignored & will not be further evaluated. In case such agency is lowest (L-1), next lowest bidder shall be considered as L-1.

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

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

9.0 If an unsuccessful bidder makes any vexatious, frivolous or malicious complaint against the tender process with the intention of delaying or defeating any procurement or causing loss to IGGL or any other bidder, such bidder will be put on holiday for a period of six months, if such complaint is proved to be vexatious, frivolous or malicious, after following the due procedure.

10. APPEAL AGAINST THE DECISION OF THE COMPETENT AUTHORITY:

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

(b) Appellate Authority would consider the appeal and pass appropriate order which shall be communicated to the party as well as the Competent Authority.

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

(d) "Appellate Authority" shall mean Committee of Directors consisting of Director (Finance) and Director (BD) for works centers under Director (Projects). For all other cases committee of Directors shall consist of Director (Finance) & Director (Projects).

11. ERRANT BIDDER

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

Further, such bidder will be put on Watch List (Yellow Card) for a period of two years after following the due procedure. However, during the period in watch list such vendor will be allowed to participate in all other tenders and to execute other ongoing order/ contract (s) or new contract/ order (s).

=====

In case of subsequent instances of default in other tender(s) during aforesaid watch list period, the action shall be initiated as per provision of sl. no. 2 of para A of Clause no. 5.1 (v) and 5.3 (v).

The Yellow card will be automatically revoked after specified period unless the same is converted into Red Card.

12. In case CBIC (Central Board of Indirect Taxes and Customs)/ any tax authority / any equivalent government agency brings to the notice of IGGL that the Supplier has not remitted the amount towards GST (CGST & SGST/UTGST or IGST) collected from IGGL to the government exchequer, then, that Supplier shall be put under Holiday list of IGGL for period of six months after following the due procedure. This action will be in addition to the right of recovery of financial implication arising on IGGL.

IGGL PERFORMANCE RATING DATA SHEET (FOR PROJECTS/ CONSULTANCY JOBS)

- i) Project/Work Centre :
- ii) Order/ Contract No. & date :
- iii) Brief description of Items :
Works/Assignment
- iv) Order/Contract value (Rs.) :
- v) Name of Vendor/Supplier/ :
Contractor/ Consultant
- vi) Contracted delivery/ :
Completion Schedule
- vii) Actual delivery/ :
Completion date

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

Note:

Remarks (if any)

PERFORMANCE RATING (**)

Note :

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

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

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

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

Signature of
Authorised Signatory:

Name:

Designation:

Instructions for allocation of marks

1. Marks are to be allocated as under :

1.1 DELIVERY/ COMPLETION PERFORMANCE 40 Marks

Marks	Delivery Period/ Completion Schedule	Delay in Weeks	
	a) Upto 3 months	Before CDD	40
		Delay upto 4 weeks	35
		" 8 weeks	30
		" 10 weeks	25
		" 12 weeks	20
		" 16 weeks	15
		More than 16 weeks	0
	b) Above 3 months	Before CDD	40
		Delay upto 4 weeks	35
		" 8 weeks	30
		" 10 weeks	25
		" 16 weeks	20
		" 20 weeks	15
		" 24 weeks	10
		More than 24 weeks	0

1.2 QUALITY PERFORMANCE 40 Marks

	For Normal Cases : No Defects/ No Deviation/ No failure:	40 marks
i) Rejection/Defects	Marks to be allocated on prorata basis for acceptable quantity as compared to total quantity for normal cases	10 marks
ii) When quality failure endanger system integration and safety of the system	-Failure of severe nature - Moderate nature - low severe nature	0 marks 5 marks 10-25 marks
iii) Number of deviations	1. No deviation 2. No. of deviations ≤ 2 3. No. of deviations > 2	5 marks 2 marks 0 marks

1.3 RELIABILITY PERFORMANCE

20 Marks

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

Indradhanush Gas Grid Limited (IGGL) PERFORMANCE RATING DATA SHEET (FOR O&M)

- i) Location :
- ii) Order/ Contract No. & date :
- iii) Brief description of Items :
Works/Assignment
- iv) Order/Contract value (Rs.) :
- v) Name of Vendor/Supplier/ Contractor/ Consultant :
- vi) Contracted delivery/ Completion Schedule :
- vii) Actual delivery/ Completion date :

Performance Parameter	Delivery Performance	Quality Performance	Reliability Performance#	Total
Maximum Marks	40	40	20	100
Marks Allocated (*)				

Remarks (if any)

PERFORMANCE RATING (**)

Note :

- (#) Vendor/Supplier/Contractor/Consultant who seek repeated financial assistance or deviation beyond contract payment term or seeking direct payment to the sub-vendor/sub-contractor due to financial constraints, then '0' marks should be allotted against Reliability Performance
- (*) Allocation of marks should be as per enclosed instructions
- (**) Performance rating shall be classified as under :

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

Signature of
Authorised Signatory:

Name:

Designation:

Instructions for allocation of marks (For O&M)

1. Marks are to be allocated as under :

1.1 DELIVERY/ COMPLETION PERFORMANCE 40 Marks

Delivery Period/ Completion Schedule	Delay in Weeks	Marks
a) Upto 3 months	Before CDD	40
	Delay upto 4 weeks	35
	" 8 weeks	30
	" 10 weeks	25
	" 12 weeks	20
	" 16 weeks	15
	More than 16 weeks	0
b) Above 3 months	Before CDD	40
	Delay upto 4 weeks	35
	" 8 weeks	30
	" 10 weeks	25
	" 16 weeks	20
	" 20 weeks	15
	" 24 weeks	10
	More than 24 weeks	0

1.2 QUALITY PERFORMANCE 40 Marks

For Normal Cases : No Defects/ No Deviation/ No failure:		40 marks
i) Rejection/Defects	Marks to be allocated on prorata basis for acceptable quantity as compared to total quantity for normal cases	10 marks
ii) When quality failure endanger system integration and safety of the system	- Failure of severe nature - Moderate nature - low severe nature	0 marks 5 marks 10-25 marks
iii) Number of deviations	1. No deviation 2. No. of deviations ≤ 2 3. No. of deviations > 2	5 marks 2 marks 0 marks

1.3 RELIABILITY PERFORMANCE

20 Marks

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

=====

SECTION-IV

GENERAL CONDITIONS OF CONTRACT (GCC)

Please refer to attachment (GCC_WORKS) in CPP E-tender portal

=====

SECTION-V

FORMS & FORMAT

LIST OF FORMS & FORMATS

Form No.	Description
F-1	BIDDER'S GENERAL INFORMATION
F-2	PROFORMA OF "BANK GUARANTEE" FOR "EARNEST MONEY / BID SECURITY"
F-2A	PROFORMA OF DECLARATION FOR BID SECURITY
F-3	LETTER OF AUTHORITY
F-4	PROFORMA OF "BANK GUARANTEE" FOR "CONTRACT PERFORMANCE SECURITY / SECURITY DEPOSIT"
F-5	AGREED TERMS & CONDITIONS
F-6	ACKNOWLEDGEMENT CUM CONSENT LETTER
F-7	BIDDER'S EXPERIENCE
F-8	CHECK LIST
F-8(A)	CHECK LIST FOR BID EVALUATION CRITERIA (BEC) QUALIFYING DOCUMENTS
F-9	FORMAT FOR CERTIFICATE FROM BANK IF BIDDER'S WORKING CAPITAL IS INADEQUATE
F-10	FORMAT FOR CHARTERED ACCOUNTANT CERTIFICATE FOR FINANCIAL CAPABILITY OF THE BIDDER
F-11	BIDDER'S QUERIES FOR PRE-BID MEETING
F-12	E-BANKING FORMAT
F-13	FREQUENTLY ASKED QUESTIONS (FAQ)
F-14	UNDERTAKING REGARDING SUBMISSION OF ELECTRONIC INVOICE (E-INVOICE AS PER GST LAWS)
F-15	DECLARATION ON PROCEEDINGS UNDER INSOLVENCY AND BANKRUPTCY CODE 2016
F-16	FORMAT FOR NO CLAIM CERTIFICATE FOR RELEASE OF CPS/Security Deposit
F-17	INTEGRITY PACT

F-1

BIDDER'S GENERAL INFORMATION

To,
M/s IGGL

TENDER NO: IGGL/GHY/C&P/LMC/10-25(**E-TENDER NO. IGGL-100093**)

1	Bidder Name	
2	Status of Firm	Proprietorship Firm/Partnership firm/LLP/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 [As per Cl. No. 4.0 of ITB]	
3b	Name of Power of Attorney Holders of bidder	
4	Number of Years in Operation	
5	Address of Registered Office:	City: District: State: PIN/ZIP:
6	Bidder's address where order/ contract is to be placed.	City: District: State: PIN/ZIP:
7	Address from where Goods/ Services are to be dispatched/ provided along 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 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.	[Enclose copy of PAN Card]
14	GST No. (refer sl. no. 7 above)	[Enclose copy of GST Certificate]
15	EPF Registration No.	[Enclose copy of EPF Registration Certificate]
16	ESI code No.	[Enclose copy of relevant document]
17	Whether Bidder is Startups or not	Yes / No (If Yes, Bidder to submit requisite documents as specified in ITB: Clause No.49)
	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: * IGGL intends to place the order/contract directly on the address from where Goods are produced/dispatched or Services are rendered. In case, bidder wants order/ contract at some other address or supply of Goods/ Services from multiple locations, bidder is required to provide in their bid address on which order is to be placed.

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

=====

FORMAT F-2
PROFORMA OF "BANK GUARANTEE"
FOR "EARNEST MONEY / BID SECURITY"
 (To be stamped in accordance with the Stamp Act)

To, M/s Indradhanush Gas Grid Limited (IGGL) -----	Bank Guarantee No.	
	Date of BG	
	BG Valid up to	
	Claim period up to (There should be three months gap between expiry date of BG & Claim period)	
	Stamp Sl. No./e-Stamp Certificate No.	

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 IGGL, the amount _____ without any reservation, protest, demur and recourse. Any such demand made by IGGL, 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 _____.

Details of next Higher Authority of the Officials who have issued the Bank Guarantee:

Name
 Designation

WITNESS:

(SIGNATURE)

(NAME)

(OFFICIAL ADDRESS)

(SIGNATURE)

(NAME)

Designation with Bank Stamp

Attorney as per
 Power of Attorney No. _____

Date: _____

INSTRUCTIONS FOR FURNISHING "BID SECURITY / EARNEST MONEY" BY "BANK GUARANTEE"

1. The Bank Guarantee by Bidders will be given on non-judicial stamp paper as per "Stamp Duty" applicable. The non-judicial stamp paper should be in the name of the issuing Bank. In case of foreign Bank, the said Bank's Guarantee to be issued by its correspondent Bank in India on requisite non-judicial stamp paper
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 / Fax / Phone from where the Earnest Money Bond has been issued.
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.

7. THE BANK GUARANTEE ISSUED BY THE BANK MUST BE ROUTED THROUGH SFMS PLATFORM AS PER FOLLOWING DETAILS:

"BG issuance message (IFN 760 / IFN760COV For issuance of BG and IFN 767 / IFN 767 COV FOR Amendment of BG) is to be transmitted through SFMS to beneficiary's bank as below:

Name of Bank : Axis Bank
 Branch : Guwahati
 Branch Address : Chhibber House, Ground Floor, G.S Road, Guwahati -781005
 IFSC : UTIB0000140
 SWIFT Code : AXISINBB140

The issuing bank while issuing/amending the BG, should ensure that the below information is correctly captured in the message i.e., IFN 760 / IFN 760COV / IFN 767/ IFN 767COV:

Field Number	Particulars
7037	IGGL938956645

NOTE: THE BANK GUARANTEE ISSUED BY THE BANK MUST BE ROUTED THROUGH SFMS PLATFORM AS PER FOLLOWING DETAILS:

- (i) IFN 760 / IFN 760COV FOR ISSUANCE OF BANK GUARANTEE
- (ii) IFN 767 / IFN 767 COV FOR AMENDMENT OF BANK GUARANTEE
- (iii) THE ABOVE MESSAGE / INTIMATION SHALL BE SENT THROUGH SFMS BY THE BG ISSUING BANK TO AXIS BANK, GUWAHATI BRANCH, IFS CODE – UTIB0000140; BRANCH ADDRESS: Axis Bank, Chhibber House, Ground Floor, G.S Road, Guwahati -781005
- (iv) THE SUPPLIER SHALL SUBMIT TO IGGL THE COPY OF SFMS MESSAGE AS SENT BY THE ISSUING BANK ALONG WITH THE ORIGINAL BANK GUARANTEE

=====

-----XXXXXXXX-----

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	:	NAME			
			VENDOR CODE			
3	BANK GUARANTEE AMOUNT	:				
4	TENDER NO.	:				
5	NATURE OF BANK GUARANTEE	:				
	(Please Tick (v) whichever is Applicable		PERFORMANCE BANK GUARANTEE	SECURITY DEPOSIT	EMD	ADVANCE
6	BG ISSUED BANK DETAILS					
(A)		EMAIL ID:				
(B)		ADDRESS:				
(C)		PHONE NO.:				

=====

F-2A

DECLARATION FOR BID SECURITY

To,

M/s INDRADHANUSH GAS GRID LIMITED (IGGL)

SUB: "HIRING OF AGENCY ON RATE CONTRACT BASIS FOR EXECUTION OF LAST MILE CONNECTIVITY WORKS TO DIFFERENT CGD ENTITIES"

TENDER NO: E-Tender No. IGGL-100093

Dear Sir,

After examining/reviewing provisions of above referred tender documents (including all corrigendum/ Addenda), we M/s _____(Name of the bidder) have submitted our offer/bid no.

We, M/s _____(Name of the bidder) hereby understand that, according to your conditions, we are submitting this Declaration for Bid Security.

We understand that we will be put on watch list/ holiday/banning list (as per policies of INDRADHANUSH GAS GRID LIMITED (IGGL) in this regards), 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 INDRADHANUSH GAS GRID LIMITED (IGGL) during the period of Bid Validity:
 - i. Fail of refuse to execute the contract, if required, or
 - ii. Fail of refuse to furnish the contract performance security, in accordance provision of the tender document.
 - iii. Fail or refuse to accept "arithmetical correction" as per provision of the tender document.
- (c) Having indulged in corrupt/fraudulent/ collusive / coercive practice as per procedure.

Place:

Date:

[Signature of Authorized Signatory of Bidder]

Name:

Designation:

Seal:

=====

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 IGGL

TENDER NO: IGGL/GHY/C&P/LMC/10-25 (**E-TENDER NO. IGGL-100093**)

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 Document:

[1] Name & Designation _____ Signature _____

Phone/Cell:

Fax:

E-mail: @

[2] Name & Designation _____ Signature _____

Phone/Cell:

Fax:

E-mail: @

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

Place:

[Signature of Authorized Signatory of Bidder]

Date:

Name:

Designation:

Seal:

Note: This "Letter of Authority" should be on the "**letterhead**" of the Firm / 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
"Techno-commercial/Un-priced" & "Price Bid" Openings. Bidders authorized
representative is required to carry a copy of this authority letter while attending the
Pre-Bid Meeting, un-priced and priced bid opening & the same shall be submitted to
IGGL.

=====

F-4

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

(ON NON-JUDICIAL STAMP PAPER OF APPROPRIATE VALUE)

To, M/s Indradhanush Gas Grid Limited (IGGL) -----	Bank Guarantee No.	
	Date of BG	
	BG Valid up to	
	Claim period up to (There should be three months gap between expiry date of BG & Claim period)	
	Stamp Sl. No./e-Stamp Certificate No.	

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 **Indradhanush Gas Grid Limited (IGGL)** having registered office at 7th
Floor, 122A, NRL Centre, Christian Basti, G S Road, Guwahati, Assam-781005 (herein after
called the "IGGL" which expression shall wherever the context so require includes 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 Contract
Performance Guarantee includes guarantee executed by Nationalized Bank/Scheduled
Commercial Bank, undertaking full responsibility to indemnify IGGL, 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 IGGL we shall on first

- =====
- demand pay without demur, contest, protest and/ or without any recourse to the contractor to IGGL in such manner as IGGL 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 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 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 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 IGGL 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 bank hereby agrees to further extend this guarantee at the instance of the supplier/contractor till such time as may be determined by IGGL. 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 IGGL at its option shall be entitled to enforce this Guarantee against the bank (as principal debtor) in the first instant, without proceeding against

=====

the supplier/contractor and notwithstanding any security or other guarantee that IGGL may have in relation to the supplier's/contractor's liabilities.

7. The amount under the Bank Guarantee is payable forthwith without any delay by Bank upon the written demand raised by IGGL. Any dispute arising out of or in relation to the said Bank Guarantee shall be subject to the exclusive jurisdiction of courts at Guwahati.
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 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 three months beyond the 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 IGGL under this Guarantee 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 Bank Guarantee:

Name

Designation

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.
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 Guwahati.
2. The Bank Guarantee by Bidders will be given from bank as specified in Tender.
3. A letter from the issuing bank of the requisite Bank Guarantee confirming that said Bank Guarantee and all future communication relating to the Bank Guarantee shall be forwarded to 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 along with Documentary evidence OR in the Bank Guarantee itself.
5. **THE BANK GUARANTEE ISSUED BY THE BANK MUST BE ROUTED THROUGH SFMS PLATFORM AS PER FOLLOWING DETAILS:**

"BG issuance message (IFN 760 / IFN760COV For issuance of BG and IFN 767 / IFN 767 COV FOR Amendment of BG) is to be transmitted through SFMS to beneficiary's bank as below:

Name of Bank : Axis Bank
Branch : Guwahati
Branch Address : Chhibber House, Ground Floor, G.S Road, Guwahati -781005
IFSC : UTIB0000140
SWIFT Code : AXISINBB140

The issuing bank while issuing/amending the BG, should ensure that the below information is correctly captured in the message i.e., IFN 760 / IFN 760COV / IFN 767/ IFN 767COV:

Field Number	Particulars
7037	IGGL938956645

NOTE: THE BANK GUARANTEE ISSUED BY THE BANK MUST BE ROUTED THROUGH SFMS PLATFORM AS PER FOLLOWING DETAILS:

- (i) IFN 760 / IFN 760COV FOR ISSUANCE OF BANK GUARANTEE
- (ii) IFN 767 / IFN 767 COV FOR AMENDMENT OF BANK GUARANTEE
- (iii) THE ABOVE MESSAGE / INTIMATION SHALL BE SENT THROUGH SFMS BY THE BG ISSUING BANK TO AXIS BANK, GUWAHATI BRANCH, IFS CODE – UTIB0000140; BRANCH ADDRESS: Axis Bank, Chhibber House, Ground Floor, G.S Road, Guwahati - 781005
- (iv) THE SUPPLIER SHALL SUBMIT TO IGGL THE COPY OF SFMS MESSAGE AS SENT BY THE ISSUING BANK ALONG WITH THE ORIGINAL BANK GUARANTEE

=====

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	:	NAME			
			VENDOR CODE			
3	BANK GUARANTEE AMOUNT	:				
4	PURCHASE ORDER/ LOA NO	:				
5	NATURE OF BANK GUARANTEE	:				
	(Please Tick (✓) Whichever is Applicable		PERFORMANCE BANK GUARANTEE	SECURITY DEPOSIT	EMD	ADVANCE
6	BG ISSUED BANK DETAILS					
(A)		EMAIL ID :				
(B)		ADDRESS :				
(C)		PHONE NO :				

F-5
AGREED TERMS & CONDITIONS

To,

M/s IGGL

TENDER NO: IGGL/GHY/C&P/LMC/10-25(E-TENDER NO. IGGL-100093)

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 and address (LOA/Order shall be released in this name)	Bidder's name: 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 to mention the rate of GST (CGST & SGST/ UTGST or IGST) for the quoted service	% [GST rate]
4.1	Whether in the instant tender services/works are covered in reverse charge rule of GST (CGST & SGST/UTGST or IGST) If yes, Bidder to confirm rate of applicable GST (CGST & SGST/ UTGST or IGST)	Yes/ No ----- ----
4.2	Bidder to mention Harmonized System Nomenclature (HSN)/Service Accounting Code (SAC) for the quoted service	
4.3	Bidder hereby confirms that the quoted prices is in compliance with the Section 171 of CGST Act/ SGST Act as mentioned as clause no. 13.10 of ITB	
4.4	Whether bidder is liable to raise E-Invoice as per GST Act	
	If yes, bidder will raise E-Invoice and confirm compliance to provision of tender in this regard.	
5.	Confirm acceptance of relevant Terms of Payment specified in the Bid Document.	
6.	Confirm that Contract Performance Security will be furnished as per Bid Document within 30 days of LOA/FOA/SAP PO in case of successful bidder.	

Sl.	DESCRIPTION	BIDDER'S CONFIRMATION
7.	Confirm 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.	Confirm compliance to Completion Schedule as specified in Bid document.	
9.	Confirm acceptance of Price Reduction Schedule for delay in completion schedule specified in Bid document. In case of delay, the bills shall be submitted after deducting the price reduction due to delay	
10.	a) Confirm acceptance of all terms and conditions of Tender Document, GCC, pre-bid minutes and corrigendum (If any). b) Confirm that printed terms and conditions of bidder are not applicable.	
11	Confirm your offer is valid for period specified in BDS from Final/Extended due date of opening of Techno-commercial Bids.	
12.	Please furnish EMD/Bid Security details (if applicable): a) EMD/ Bid Security No. & date b) Value c) Validity d) Bank Address/e-mail ID/Mobile no. [in case of BG] OR Bidder furnishes bid security declaration [applicable for Start-Ups and CPSEs (to whom exemption is allowed as per extant guidelines in vogue)]	
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.	

SI.	DESCRIPTION	BIDDER'S CONFIRMATION
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 IGGL OR (ii) the bidder is not a firm in which any Director (in Board of Director) of IGGL 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.	Confirm that all Bank charges associated with Bidder's Bank shall be borne by Bidder.	
18.	<u>No Deviation Confirmation:</u> It may be noted 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.	<u>Non-Involvement of Govt. of India:</u> If Bidder becomes a successful Bidder and pursuant to the provisions of the Tender Document, award is given to them against subject Tender Document, the following Confirmation shall be automatically 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 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	

Sl.	DESCRIPTION	BIDDER'S CONFIRMATION
	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 be 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.	<u>Holiday/Banning & Liquidation, Court Receivership:</u> Bidder hereby confirms that they are not on 'Holiday' by IGGL 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. 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 IGGL or the Ministry of Petroleum and Natural Gas. Bidder also confirms that they are not under any liquidation, court receivership or similar proceedings or 'bankruptcy'. In case it comes to the notice of IGGL 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. 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 IGGL by them.	
23.	Bidder confirms that they have read and understood the General Conditions of Contract available along with this tender document in the CPP portal & no 'exception / deviation' anywhere has been taken in the same and that they shall abide by provisions of relevant GCC.	

Sl.	DESCRIPTION	BIDDER'S CONFIRMATION
24.	Bidder certifies that they would adhere to the Fraud Prevention Policy of IGGL [available on IGGL's website (www.iggl.co.in)] and shall not indulge themselves or allow others (working in IGGL) to indulge in fraudulent activities and that they would immediately apprise IGGL 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 IGGL is liable to be treated as crime and dealt with by the procedures of IGGL 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 13.13 of ITB.	
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 terms & conditions mentioned elsewhere in the offer, the confirmations given in this format shall prevail	

Place:

Date:

[Signature of Authorized Signatory of Bidder]

Name:

Designation:

Seal:

=====

F-6

ACKNOWLEDGEMENT CUM CONSENT LETTER

(On receipt of tender document/information regarding the tender, Bidder shall acknowledge the receipt and confirm his intention to bid or reason for non-participation against the enquiry /tender through e-mail/fax to concerned executive in IGGL issued the tender, by filling up the Format)

To,
M/s IGGL

TENDER NO: IGGL/GHY/C&P/LMC/10-25(E-TENDER NO. IGGL-100093)

Dear Sir,

We hereby acknowledge receipt of a complete set of bidding document along with enclosures for subject item/job and/or the information regarding the subject tender.

- We intend to bid as requested for the subject item/job and furnish following details with respect to our quoting office:

Postal Address with Pin Code	:
Telephone Number	:
Fax Number	:
Contact Person	:
E-mail Address	:
Mobile No.	:
Date	:
Seal/Stamp	:

- We are unable to bid for the reason given below:

Reasons for non-submission of bid:

Agency's Name	:
Signature	:
Name	:
Designation	:
Date	:
Seal/Stamp	:

F-7

BIDDER'S EXPERIENCE

To,
M/s IGGL

TENDER NO: IGGL/GHY/C&P/LMC/10-25(E-TENDER NO. IGGL-100093)

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

Place:

[Signature of Authorized Signatory of Bidder]

Date:

Name:

Designation:

Seal:

Note: 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 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/Bid Security/Declaration for Bid Security [as applicable] as per provisions of Tender		
iii	Digitally Signing (in case of e-bidding)/ Signing and Stamping (in case of manual bidding) of bidding document along with drawings and corrigendum (if any)		
iv	Power of Attorney in the name of person signing the bid.		
v	Details of documentary proof required against BEC Criteria		
Vi	Confirm submission of document along with unpriced bid as per bid requirement.		
3.0	Confirm that all forms 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 annual reports for last three financial years & duly filled in Form 10 are enclosed in the offer for financial assessment (where financial criteria of BEC is applicable).		
6.0	Confirm that Undertaking as per Form 1 of Annexure-III to Section-III has been submitted (applicable for MSE and PPP-MII bidder).		Not Applicable for Works Tender

7.0	Confirm that Undertaking as per Form-2 to Annexure-III 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-III to Section-III are submitted		
8.0	Confirm that Undertaking as per Form-1 to Section-II have been submitted by the bidder (Guidelines from Procurement from a Country sharing a Land Border with India)		
9.0	Confirm submission of Checklist against Bid Evaluation Criteria as per format F-8(A)		

Place:

Date:

[Signature of Authorized Signatory of Bidder]

Name:

Designation:

Seal:

F-8(A)

CHECKLIST FOR BID EVALUATION CRITERIA (BEC) QUALIFYING DOCUMENTS

(Refer Section II of Tender document)

BEC Clause No.	Description	Documents required for qualification	Documents Submitted by Bidder	Documents attested as per Section-II of Tender	Reference Page No. of the Bid submitted
Technical BEC					
1.1	Experience Criteria	To meet the Technical BEC, Bidder must submit the Detailed work order with detailed Schedule of Rates (SOR) along with Completion/ Execution Certificate. The work order must clearly indicate as under: - Name & Full Address of organization who has issued the work order. - Nature of Work / Service along with various components / items. - Completion time / Contract period - Value of Work order The Completion / Execution certificate must clearly indicate as under: - Name & Full Address of organization who has issued the Completion / Execution Certificate - Reference of relevant work order / Contract agreement / Letter of Award in completion / Execution certificate. - Completed / Executed value of work. - Actual date of completion of contract		Yes/No	

1.1 Additional Notes	Job executed for Subsidiary / Fellow subsidiary/ Holding company.	Tax paid invoice(s) duly certified by statutory auditor of the bidder towards payment of statutory tax in support of the job executed for Subsidiary / Fellow subsidiary/ Holding company.		Yes/No	
1.4	Experience of bidder acquired as a subcontractor	Certificate from end user		Yes/No	
Financial BEC					
1.	Average Annual Turn Over	Audited Financial Statements [including Auditor's Report, Balance sheet, Profit & Loss Accounts statements, Notes & schedules etc.] for preceding three Audited Financial Years.		Yes/No	
2.	Net Worth	Audited Financial Statements [including Auditor's Report, Balance sheet, Profit & Loss Accounts statements, Notes & schedules etc.] for last Audited Financial Year.		Yes/No	
3.	Working Capital	Audited Financial Statements [including Auditor's Report, Balance sheet, Profit & Loss Accounts statements, Notes & schedules etc.] for last Audited Financial Year. If the bidder's working capital is negative or inadequate, the bidder shall submit a letter (in prescribed format) from their bank having net worth not less than Rs.100 Crores, confirming the availability of line of credit for at least working capital requirement as stated above.		Yes/No	
4.	Format for Details of financial capability of Bidder	Bidder shall submit "Details of financial capability of Bidder" in prescribed format duly signed and stamped by a chartered accountant / Certified Public Accountant (CPA).	Submitted		

Place:

Date:

[Signature of Authorized Signatory of Bidder]

Name:

Designation:

Seal:

=====

F-9

FORMAT FOR CERTIFICATE FROM BANK
IF BIDDER'S WORKING CAPITAL IS INADEQUATE/NEGATIVE

(To be provided on Bank's letter head)

Date:

To,
M/s. IGGL

Dear Sir,

This is to certify that M/s (name of the bidder with address)
(hereinafter referred to as Customer) is an existing customer of our Bank.

The Customer has informed that they wish to bid for IGGL's Tender no.
..... dated for (Name of the
supply/work/services/consultancy) and as per the terms of the said Tender document they
have to furnish a certificate from their Bank confirming the availability of line of credit.

Accordingly, M/s (name of the Bank with address) confirms
availability of line of credit to M/s (name of the bidder) for at least an
amount of Rs. _____

It is also confirmed that the net worth of the Bank is more than Rs. 100 Crores (or Equivalent
USD) and the undersigned is authorized to issue this certificate.

Yours truly

for (Name & address of Bank)

(Authorized signatory)

Name of the signatory :

Designation :

Email Id :

Contact No. :

Stamp

Note:

This Declaration Letter for line of credit shall be from single bank only. Letter from multiple
banks shall not be applicable. However, banking syndicate will be acceptable wherein a
group of banks can jointly provide line of credit to the bidder.

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. AVERAGE ANNUAL FINANCIAL TURNOVER* DURING THE LAST THREE FINANCIAL 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.

(Page 1 of 2)

=====

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:
 - a. **Annual Turnover** shall be "Revenue from operation" as per profit & Loss account of audited annual financial statements.
 - b. **Working Capital** shall be "Current Assets less Current liabilities" and
 - c. **Net Worth** shall be aggregate value of the paid-up share capital and all reserves created out of the profits and securities premium account, after deducting the aggregate value of the accumulated losses, deferred expenditure and miscellaneous expenditure not written off, if any, but does not include reserves created out of revaluation of assets, write back of depreciation and amalgamation.
5. 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.
6. **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.**
7. This certificate is to be submitted on the letter head of Chartered Accountant/CPA.

=====

F-11

BIDDER'S QUERIES FOR PRE-BID MEETING

To,

M/s. IGGL

TENDER NO: IGGL/GHY/C&P/LMC/10-25(E –TENDER NO. IGGL-100093)

SL. NO.	REFERENCE OF BIDDING DOCUMENT				BIDDER'S QUERY	IGGL'S REPLY
	SEC. NO.	Page No.	Clause No.	Subject		

NOTE: The Pre-Bid Queries may be sent by e-mail before due date for receipt of Bidder's queries.

SIGNATURE OF BIDDER: _____

NAME OF BIDDER : _____

=====

F-12

E-Banking Mandate Form

(To be issued on vendor's 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 IGGL 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 IGGL 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)

=====

F-13**FREQUENTLY ASKED QUESTIONS (FAQs)**

SL.NO.	QUESTION	ANSWER
1.0	Can any vendor quote for subject Tender?	Yes. A Vendor has to meet Bid Evaluation Criteria given under Section II of Tender document in addition to other requirements.
2.0	Should the Bid Evaluation Criteria documents be attested?	Yes. Please refer Section II of Tender document
3.0	Is attending Pre-Bid Meeting mandatory.	No. Refer Clause No. 17 of Instruction to Bidders of Tender Document. However, attending Pre-Bid Meeting is recommended to sort out any issue before submission of bid by a Bidder.
4.0	Can a vendor submit more than 1 offer?	No. Please refer Clause No. 4 of Instruction to Bidders of Tender Document.
5.0	Is there any Help document available for E-Tender?	Yes. Refer Annexure III to Instructions to Bidders of Tender Document and FAQs as available on IGGL E-Tender portal.
6.0	Are there are any MSE (Micro & Small Enterprises) benefits available?	Refer Clause No. 40 of Instructions to Bidders of Tender Document.
7.0	Are there any benefits available to Start-ups?	Refer Clause No. 49 of Instructions to Bidders of the Tender Document and BDS

All the terms and conditions of Tender remain unaltered.

=====

F-14

**UNDERTAKING REGARDING SUBMISSION OF ELECTRONIC INVOICE (E-INVOICE
AS PER GST LAWS)**

(To be submitted on letter head along with documents for release of payment)

To,
M/s IGGL

.....

SUB: "HIRING OF AGENCY ON RATE CONTRACT BASIS FOR EXECUTION OF LAST MILE CONNECTIVITY WORKS TO DIFFERENT CGD ENTITIES"

LOA NO:

Dear Sir,

We _____ (Name of the Supplier) hereby confirm that E-Invoice provision as per the GST Law is

- | | |
|---------------------------|---------|
| (i) Applicable to us | [] |
| (ii) Not Applicable to us | [] |

(Supplier is to tick appropriate option (✓) above).

In case, same is applicable to us, we confirm that we will submit E-Invoice after complying with all the requirements of GST Laws. If the invoice issued without following this process, such invoice can-not be processed for payment by IGGL as no ITC is allowed on such invoices. We also confirm that If input tax credit is not available to IGGL for any reason attributable to Supplier (both for E-invoicing cases and non-E-invoicing cases), then IGGL shall not be obligated or liable to pay or reimburse GST (CGST & SGST/UTGST or IGST) claimed in the invoice(s) and shall be entitled to deduct / setoff / recover such GST amount (CGST & SGST/UTGST or IGST) or Input Tax Credit amount together with penalties and interest, if any, by adjusting against any amounts paid or becomes payable in future to the Supplier under this contract or under any other contract.

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

=====

F-15

DECLARATION ON PROCEEDINGS UNDER INSOLVENCY AND BANKRUPTCY
CODE 2016

To,
M/s IGGL
.....

SUB: "HIRING OF AGENCY ON RATE CONTRACT BASIS FOR EXECUTION OF LAST MILE CONNECTIVITY WORKS TO DIFFERENT CGD ENTITIES"

Tender No.: IGGL/GHY/C&P/LMC/10-25(**E –TENDER NO. IGGL-100093**)

Dear Sir,

I/ We hereby declare that I/We, M/s_____, declare that:

(i) I/We am/are not undergoing insolvency resolution process or liquidation or bankruptcy proceeding as on date

OR

(ii) I/We am/are undergoing insolvency resolution process or liquidation or bankruptcy proceeding as on date as per details mentioned below

- (a) _____
(b) _____
(c) _____

(Attach details in separate sheet)

(iii) Further, I / We also confirms that in case there is any change in status of this declaration at any stage of tendering / execution (in case of award), the same will be promptly informed to IGGL.

Note: Strike out either (i) or (ii) as applicable.

It is understood that if this declaration is found to be false, Indradhanush Gas Grid Limited shall have the right to reject my/our bid, and forfeit the EMD/CPS. If the bid has resulted in a contract, the contract will be liable for termination without prejudice to any other right or remedy (including black listing or holiday listing) available to Indradhanush Gas Grid Limited.

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

=====

F-16

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

[On the Letter-head of Contractor]

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 IGGL 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 IGGL

We further absolve IGGL 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.

Place: _____ [Signature of Authorized Signatory of Contractor]

Date: _____ Name: _____

Designation: _____

Seal: _____

=====

F-17
INTEGRITY PACT (IP)

ANNEXURE-A

**INTEGRITY
PACT**

(IP signed by IGGL's executive shall be made part of tender document)



Page 1 of 10

INTEGRITY PACT

INTRODUCTION:

IGGL as one of its endeavour to maintain and foster most ethical and corruption free business environment, have decided to adopt the Integrity Pact, a tool developed by the Transparency International, to ensure that all activities and transactions between the Company (IGGL) and its Counter parties (Bidders, Contractors, Vendors, Suppliers, Service Providers/Consultants etc.) are handled in a fair and transparent manner, completely free of corruption.

Considering the above, the details mentioned at attached Annexure-1 are applicable as stated in Instruction to Bidders of Bid Document in addition to the existing stipulation regarding Corrupt and Fraudulent Practices.

The attached copy of the Integrity Pact at Annexure-2 shall be included in the Bid submitted by the bidder (to be executed by the bidder for all tenders of value Rs. 1 (One) crore and above). In case a bidder does not sign the Integrity Pact, his bid shall be liable for rejection.



ANNEXURE-1

Bidder is required to sign the Integrity Pact with IGGL as per format & terms and conditions enclosed with tender. In case a bidder does not sign the Integrity Pact, his bid shall be liable for rejection.

I COMMITMENTS AND OBLIGATIONS OF THE "COUNTER PARTY"

- a) The Counter party, directly or indirectly (through agent, consultant, advisor, etc.), shall not pay any bribe/ influence or give undue/ unlawful benefit to anyone to gain undue advantage in dealing with IGGL.
- b) The Counter party will not engage in collusion of any kind including price fixation etc. with other Counter parts.
- c) The counter party will not pass IGGL's confidential information to any third party unless specifically authorized by IGGL in writing.
- d) The Counterparties shall promote and observe best ethical practices within the irrespective organizations.
- e) The Counter party shall inform the Independent External Monitor.
 - i) If it received any demand, directly or indirectly, for a bribe/ favour or any illegal gratification/payment/benefit;
 - ii) If it comes to know of any unethical or illegal payment/benefit;
 - iii) If it makes any payment to any IGGL associate.
- f) The Counter party shall not make any false or misleading allegations against IGGL or its associates.

II VIOLATIONS & CONSEQUENCES:

- a) If a Counterparty commits a violation of its Commitments and Obligations under the Integrity Pact Programme during bidding process, their entire Earnest Money Deposit/ Bid Security, would be forfeited and in addition, action shall be taken as per "Procedure for action in case Corrupt /Fraudulent/ Collusive/Coercive Practices"
- b) In case of violation of the Integrity pact by Counterparty after award of the Contract, IGGL shall be entitled to terminate the Contract. Further, IGGL, would forfeit the security deposits/ Contract Performance Bank Guarantee and in addition, action shall be taken as per "Procedure for action in case Corrupt/Fraudulent/Collusive/Coercive Practices"

Page 3 of 10



INDEPENDENT EXTERNAL MONITORS (IEMS)

Presently the panel consisting of the following Independent External Monitors (IEMs) has been appointed by IGGL, in terms of Integrity Pact (IP) which forms part of IGGL Tenders / Contracts.

- i) Smt. Madhu Sharma, IFoS (Retd.)
(E-mail Id: madhu1sharma@yahoo.com)

This panel is authorised to examine/consider all references made to it under this tender/ contract. The bidder(s), in case of any dispute(s) / complaint(s) pertaining to this tender may raise the issue either with the designated tender/contract issuing officer or Nodal Officer (**presently Shri Kulajit Talukdar**) in IGGL or directly with the IEMs on the panel or IEM c/o Chief Vigilance Officer.



ANNEXURE-2

INTEGRITY PACT

(To be executed on plain paper)

Between Indradhanush Gas Grid Limited (IGGL), a JV of ONGC, OIL, GAIL, NRL, & IOCL ,
(here-in-after referred to as "Principal").

AND

_____ (here-in-after referred to as "The Bidder/Contractor").

(Principal and the Bidder / Contractor are here-in-after are referred to individually as
"Party" or collectively as "Parties").

PREAMBLE

The Principal intends to award under laid down organizational procedures, contract/s for
_____. The Principal values
full compliance with all relevant laws of land rules, regulations, and economic use of resources
and of fairness/transparency in its relations with its Bidder(s) and/or Contractor(s).

In order to achieve these goals, the Principal will appoint Independent External Monitors
(IEMs) who will monitor the tender process and the execution of the contract for compliance
with the principles mentioned above.

Section I –Commitments of the Principal

1. The Principal commits itself to take all measures necessary to prevent corruption and to observe the following Principles:-
 - i) No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or for a third person, any material or in material benefit which the person is not legally entitled to.
 - ii) The Principal will, during the tender process treat all Bidder(s) with equity and reasons. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder (s) confidential/additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
 - iii) The Principal will exclude from the process all known prejudiced persons.
2. If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal Code (IPC)/ Prevention of Corruption Act (PC

Page 5 of 10



Act), or if there be a substantive suspicion in this regard, the Principal will inform the Chief Vigilance Officers and in addition can initiate disciplinary actions.

Section 2-Commitments of the Bidder(s)/Contractor(s)

1. The Bidder(s) / Contractor(s) commit themselves to take all measures necessary to prevent corruption. The Bidder(s)/ Contractor(s) commits themselves to observe the following principles during participation in the tender process and during the contract execution:
 - i) The Bidder (s) / Contractor (s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material or other benefit which he / she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
 - ii) The Bidder(s)/Contractor(s) will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other action to restrict competitiveness or to introduce cartelization in the bidding process.
 - iii) The Bidder (s) / Contractor (s) will not commit any offence under the relevant IPC/PC Act; further, the Bidder (s) / Contractor (s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
 - iv) The Bidder (s)/ Contractor (s) of foreign origin shall disclose the name and address of the Agents/ representatives in India, if any. Similarly, the Bidder (s)/Contractor (s) of Indian Nationality shall furnish the name and address of the foreign principals, if any. Further, all the payments made to the Indian agent/representative have to be in Indian Rupees only.
 - v) The Bidder (s) / Contractor (s) will, when presenting their bid, disclose any and all payments made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
 - vi) Bidder(s) / Contractor(s) who have signed the Integrity Pact shall not approach the Courts while representing the matter to IEMs and shall wait for their decision in the matter.
2. The Bidder(s)/ Contractor(s) shall not instigate third person to commit offences outlined above or be an accessory to such offences.



Page 6 of 10

Section 3 –Disqualification from tender process and exclusion from future contracts

If the Bidder (s) / Contractor (s), before award or during execution has committed a transgression through a violation of Section 2, above or in any other form such as to put their reliability or credibility in question, the Principal is entitled to disqualify the Bidder (s) / Contractor (s) from the tender process or take action as per provisions of “Procedure for action in case Corrupt/Fraudulent/Collusive/Coercive Practices”.

Section 4 –Compensation for Damages

1. If the Principal has disqualified the Bidder (s) from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/ Bid Security.
2. If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to Section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages equal to the Contract Value or the amount equivalent to Performance Bank Guarantee.

Section 5–Previous transgression

1. The Bidder declares that no previous transgression occurred in the last three years, with any other Company in any country conforming to the anti-corruption approach or with any Public Sector Enterprise in India that could justify his exclusion from the tender process.
2. If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or actions can be taken as per provisions of “Procedure for action in case Corrupt/Fraudulent/ Collusive/Coercive Practices”

Section 6 –Equal treatment to all Bidders/ Contractors/Subcontractors

1. In case of sub-contracting, the Principal contractor shall take the responsibility of the adoption of IP by the sub-contractor. It is to be ensured by him that all sub-contractors also sign the IP.
2. The Principal will enter into agreements with identical conditions as this one with all Bidders and Contractors.
3. The Principal will disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.



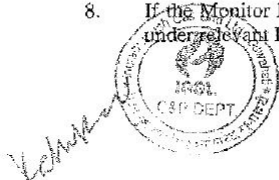
Section 7-Criminal charges against violating Bidder(s)/Contractor (s)/Sub-contractor(s)

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the same to the Chief Vigilance Officer.

Section 8-Independent External Monitor/Monitors

1. The Principal appoints competent and credible Independent External Monitor for this Pact after approval by Central Vigilance Commission. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
2. The Monitor is not subject to instructions by the representatives of the parties and performs his/her functions neutrally and independently. The Monitor would have access to all documents/records pertaining to the contract for which a complaint or issue is raised before them, as and when warranted. However, the documents/records/information having National Security implications and those documents which have been classified as Secret/Top Secret are not to be disclosed. It will be obligatory for him/ her to treat the information and documents of the Bidders/Contractors as confidential. He/she reports to the CEO, IGGL.
3. The Bidder (s)/ Contractor (s) accepts that the Monitor has the right to access without restriction to all Project documentation of the Principal including that provided by the Contractor. The Contractor will also grant the Monitor, upon his/her request and demonstration of a valid interest, unrestricted and unconditional access to their project documentation. The same is applicable to Sub-contractors.
5. The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.
6. As soon as the Monitor notices, or believes to notice, a violation of this agreement, he/she will so inform the Management of the Principal and request the Management to discontinue or to take corrective action, or to take other relevant action. The monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.
7. The Monitor will submit a written report to the CEO, IGGL within 30 days from the date of reference or intimation to him by the 'Principal' and, should the occasion arise, submit proposals for correcting problematic situations.
8. If the Monitor has reported to the CEO, IGGL, a substantiated suspicion of an offence under relevant IPC/PC Act, and the CEO, IGGL has not, within reasonable time, taken

Page8of10



visible action to proceed against such offence or reported it to the Chief Vigilance Officer, then only in case of very serious issue having a specific, verifiable Vigilance angle, the matter should be reported directly to the Central Vigilance Commission.

9. The word 'Monitor' would include both singular and plural.
10. In case of any complaints referred under IP Program, the role of IEMs is advisory and would not be legally binding and it is restricted to resolving the issues raised by an intending bidder regarding any aspect of the tender which allegedly restricts competition or bias towards some bidder.
11. After award of contract, the IEMs shall look into any issue relating to execution of contract, if specifically raised before them. As an illustrative example, if a contractor, who has been awarded the contract, during the execution of contract, raises issue of delayed payment etc. before the IEMs, the same shall be examined by the panel of IEMs.

Section 9—Pact Duration

This Pact begins when both parties have legally signed it. It expires for the Contractor 12 months after the last payment under the respective contract, and for all other Bidders 6 months after the contract has been awarded. Any violation to the same would entail disqualification of the bidders and exclusion from future business dealing.

If any claim is made / lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged/determined by the CEO, IGGL.

Section 10—Miscellaneous provisions

1. This agreement is subject to Indian Law. Place of performance and exclusive jurisdiction is the Registered Office of the principal, i.e. Guwahati.
2. Changes and supplements as well as termination notices, if any, need to be made in writing. Side agreements have not been made.
3. If the Contractor / Bidder is a Joint Venture or a partnership concern or a consortium, this agreement must be signed by all partners or consortium members.
4. Should one or several of the provisions of this agreement turn out to be invalid, the remainder of this agreement shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions in such a case.
5. Issues like warranty/guarantee, etc. shall be outside the purview of IEMs.



6. In the event of any contradiction between the Integrity Pact and its Annexure, the Clause in Integrity Pact will prevail.

(For & on Behalf of Principal)

(Office Seal)

(For & on Behalf of Bidder/ Contractor)

(Office Seal)

Place: _____
Date: _____

Witness1:
(Name & Address)

Witness2:
(Name & Address)



=====

SECTION-VI

SPECIAL CONDITIONS OF CONTRACT

&

SCOPE OF WORK

=====

PARTICULAR JOB SPECIFICATION

PIPELINE LAYING & PIPING WORKS

=====

CONTENTS

<u>SL.NO.</u>	<u>DESCRIPTION</u>
1.0	INTRODUCTION
2.0	WORK TENDERED
3.0	SCOPE OF WORK
4.0	SCOPE OF SUPPLY
5.0	SCOPE OF WORK & SCOPE OF SUPPLY FOR OTHER DISCIPLINES
6.0	OTHER CONDITIONS OF BID
7.0	AS BUILT DOCUMENTS
8.0	DOCUMENTS TO BE SUBMITTED AT THE TIME OF BIDDING
9.0	DOCUMENTS, SPECIFICATION, STANDARDS AND DRAWINGS AND ADDITIONAL CLAUSES

1.0 INTRODUCTION

- 1.1 The Hydrocarbon vision 2030 for North East India (vision document), released by MoP&NG proposes detailed plan for Natural gas infrastructure development in North-East. The states covered in the vision document include Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura.

M/s Indradhanush Gas Grid Limited (IGGL), a Joint Venture of IOCL, ONGC, IGGL, OIL and NRL, is in the process of implementing the North East Gas Grid (NEGG) with a vision to connect all the eight (08) north eastern state capitals and major consumption centers in the region. The NEGG is connected to National gas grid at Guwahati through Barauni-Guwahati pipeline.

- 1.2 M/s IGGL intends to lay pipeline along with associated terminal works for Last Mile Connectivity Jobs to different CGD entities and other customers. Work shall include construction of terminal facilities inside existing IGGL premise or customer's premise with laying of underground pipeline whenever required.

- 1.3 The brief scope of work includes supply of materials (other than free issue), pipe laying work including but not limited to Construction Management, HSE & Quality Management, Survey, ROU management, clearing of ROU, grading, stringing, bending, welding (Manual / Semi-automatic/ Automatic), trenching, joint coating, lowering, crossings, crossings by HDD (wherever specified), Tie-ins, NDT and destructive testing, backfilling, laying of pipeline along-with OFC & HDPE ducts, TCP works, site restoration, hydro-testing, dewatering, swabbing, drying, nitrogen purging (as applicable), pre-commissioning, commissioning and Gas-in of pipeline including construction / installation of related facilities like scraper launching receiving facilities and piping works at dispatch receiving terminals, including associated Mechanical, Cathodic protection, Electrical works, Telecom works, Instrumentation, Civil works , Architectural and Structural works at all stations.

- 1.4 This document covers details of work tendered, scope of work, scope of supply and other requirements pertaining to pipeline and associated facilities. All works and clauses of this document shall be applicable to all sections/parts unless specifically mentioned otherwise.

Details of associated Civil, Architecture, Structural, Mechanical, Piping, Instrumentation, cathodic Protection, Corrosion Monitoring Works, Telecom Works , Electrical Works, etc. are covered elsewhere in the Bid document.

2.0 WORK TENDERED

Work tendered as a part of this Bid document consists of supply of materials as required, laying/ installation, testing, pre-commissioning of pipeline, drying, preservation and commissioning. The work includes installation of pipeline and related piping works at dispatch terminals, receiving terminals and all associated mechanical, civil, architectural, structural, cathodic protection, corrosion monitoring system, electrical, instrumentation, telecom works at Stations along the route etc.

2.1 The details of proposed work are as under:

Pipeline works from SV/IP/DT/RT of various sections of NEGG to designated terminal of the customer/entity including installation of scrapper trap, insulating joints, flow tee, all valves, equipments, fittings, check metering facility (if required), all piping works and other facilities and all associated mechanical, civil (pavement, supports works & building works), structural, architectural, electrical, instrumentation, telecom work, etc. The following works are also to be executed if required –

- Installation of Pipeline at crossings of roads, rails, utilities, underground pipelines, water crossings (rivers, canals, drains, field channels and nalas), ponds etc.
- Installation of Pipeline by Horizontal Directional Drilling (HDD) method, wherever required.
- Installation of pipeline by machine moiling, wherever required.
- All works related to hydro-testing, dewatering, swabbing and tie-in with adjoining pipeline/ terminal piping sections/parts including tie-in with the HDD sections.
- Carrying out magnetic cleaning & EGP.
- Pre-commissioning of the pipeline section and associated facilities.
- Commissioning assistance (as applicable) and Commissioning.
- All works related to HDPE duct laying and optical fibre cable (OFC) blowing

2.2 Construction Fronts

The construction fronts shall be intimated by the concerned EIC.

Fully equipped, maintained and functional fronts (as intimated by the EIC) are required to be mobilized by the Contractor to complete installation of facilities covered under each section/part as a minimum. All the construction fronts shall work

simultaneously. In addition, contractor shall deploy separate crews for rail, road, water crossings and restricted areas. Contractor shall also mobilize separate teams for mechanical works at Dispatch/Receiving Terminal, IP Stations, Receiving station, SV Stations and injection points.

2.3 Successful Bidder is required to submit detailed methodology for working in rainy season before start of the work.

2.4 Contractor shall adopt suitable method of construction/ execution of work for restricted ROU/ Common ROU and deploy adequate equipment & manpower etc. as required. CONTRACTOR shall provide complete details of manpower, equipment etc. to be deployed. Contractor shall mobilize and provide all equipment, manpower (skilled and unskilled), consumables and other resources and separate crew etc. for each front as required for the execution of the complete job defined herein.

2.5 For execution of the pipeline work in the narrow ROU space in forest areas, the CONTRACTOR shall consider the special requirements/ measures and shall deploy adequate amount of manpower and equipment for performing the work.

2.6 Mechanical, civil, architecture, structural, temporary cathodic protection, electrical, instrumentation and telecom works for the respective sections/parts shall be carried out as per relevant particular job specification provided elsewhere in the Bid document.

3.0 SCOPE OF WORK

The Contractor's Scope of work for the pipeline shall consist of, but shall not be limited to, supply (as required), fabrication, installation, testing, swabbing, drying, EGP, pre-commissioning and commissioning of the proposed pipeline system including terminal piping works along with all associated mechanical, civil, architectural, structural, corrosion monitoring system, electrical, instrumentation, telecom, etc. All such works that are not indicated here below but are otherwise required to complete the work in all respects shall form part of Contractor's Scope of Work.

The scope indicated below shall be read in conjunction with Schedule of Rates as applicable, drawings, standards, specifications and other documents forming part of the Contract document.

The detailed scope of work pertaining to cross-country pipeline shall be in general but not limited to the following:

3.1 Main pipeline

3.1.1 "Receiving and Taking-over" of COMPANY supplied externally/ Internally corrosion-coated and bare line pipes of all thicknesses at Company's designated place of issuance in presence of Company's representative. Transportation including loading,

- =====
- unloading, handling, stacking, hauling and stringing of pipes from Company's place of issuance to Contractor's worksite(s)/ workshop(s)/ pipeline Right-Of-Use (ROU), including arranging all pipe trailers, cranes, arranging all necessary intermediate storage area(s) required thereof till the complete pipeline system is permanently installed.
- 3.1.2 Carrying out inspection of COMPANY supplied line pipes and pipe corrosion coating at the time of receiving and taking-over for all defects etc. in the presence of Company's representative.
- 3.1.3 Carrying out repairs (including supply of all materials) of line pipe and pipe coating not attributable to COMPANY which will include repair of all defects/ damages occurring during transportation and/ or handling after receiving and taking over.
- 3.1.4 For pipes where cutting out involves more than 25mm from pipe ends, ultrasonic inspection shall be carried out at pipe ends for line pipe and including supply of all equipment. Contractor shall take prior approval from Company for the agency engaged for carrying out ultrasonic inspection.
- 3.1.5 Loading, unloading, handling, stacking, storing and transportation to workshop/ work site of all materials (other than bare and corrosion coated line pipes) that may be used for the construction of pipeline system either supplied by COMPANY or by CONTRACTOR as the case may be. All Company supplied materials (other than line pipe) shall be issued to Contractor from Company's designated store.
- 3.1.6 Preparation of bevel end and coating edge of line pipes for welding.
- 3.1.7 Contractor shall incorporate the crossing details in the as-built alignment sheet after completion of work.
- 3.1.8 Carrying out all additional topographic and/ or geotechnical survey as required for local detours, detours at crossing locations during execution.
- 3.1.9 Geo-technical investigation and hydrological survey of all major water body crossings are being carried out by the Company and the same shall be provided to the contractors during execution. Geo-technical & topographical survey for all plots shall be carried out by the respective contractor during execution of the contract. However, contractor shall verify the authenticity of the data provided during execution and if required, additional geo-technical investigation & hydrological survey shall be carried out by the contractors for HDD crossings without any cost and time implication.
- 3.1.10 Carrying out thorough internal cleaning of all pipes to remove debris, shots, grits etc. to the satisfaction of Engineer-in-charge.

- =====
- 3.1.11 Mobilizing and providing all equipment, manpower (skilled and unskilled), consumables and other resources etc., as required for the execution of complete work and thereafter demobilizing the same upon completion of work.
 - 3.1.12 Obtaining all necessary approvals and work permits from concerned authorities having jurisdiction, as applicable for performing the work including shifting/ relocation and restoration of telephone/ electrical poles and underground pipes and other utilities etc., as required by local authorities and as directed by COMPANY. Contractor shall also obtain all necessary approvals, and work permits from concerned authorities having jurisdiction for crossing underground utilities/ pipelines wherever encountered along the pipeline route.
 - 3.1.13 Cutting/ uprooting of trees within ROU, counting the number and type of trees to be cut (before cutting) during pipeline laying works in presence of DFO/ concerned authorities keeping record thereof and handing over the cut trees as directed by concerned authorities/ COMPANY.
 - 3.1.14 The Pipeline corridor shall be kept as narrow as possible at all times. The pipeline shall be fully buried. Wherever possible vegetation along the center line of the pipe shall be uprooted carefully, with soil and roots intact, so that it can be used in the reinstatement. During the excavation of the pipeline, trench top soil and subsoil material shall be kept separate and backfilled in the same order where possible imported backfill material shall be avoided and a selective backfill method used. The Trench shall be opened and closed as quickly as possible. Safe exit routes/ramps from the trench shall be provided for wildlife if a trench is left open overnight. The Pipeline shall not alter the drainage characteristic of the land. Clay Stopper bungs will be used as required.
 - 3.1.15 Staking, clearing, grading of Right of Use (ROU) as required, trenching to all depths in all types of soils including soft and hard rock, including blasting, controlled blasting, chiseling, or otherwise cutting etc. to a width to also accommodate the OFC/ cable conduit as per relevant standards, drawings, specifications etc., stringing, aligning, bending, welding, NDT by AUT/X-ray, field weld joint coating including supply of all materials, protective coating of long radius bends and buried fittings/ valves including supply of materials, providing sand/ soft soil padding, rock shield in the trench wherever required including supply of sand/ soft soil, laying and lowering of the pipeline including locating existing pipeline using pipe locator, wherever applicable and maintaining the specified minimum spacing from existing pipeline(s), back filling including supply of select backfill material where required, carrying out rail, road, river, canal, drain, utility and submerged minor and major water course crossings including installation of carrier pipe inside casing pipe at cased crossings wherever required, providing two component epoxy coating on inner surface of casing pipe wherever required by statutory authority, bank stabilization of water course crossings as required, arranging all additional temporary land/ area required for construction purposes. Supply and installation of anti-buoyancy measures viz. continuous concrete coating, geo-textile gravel filled bags, saddle

weight, extra cover, select backfill etc. on pipeline, installation of supports wherever required, tie- in/ hook-up with pipeline/ piping installed by others including cutting of temporary test headers, if any, re-beveling, NDT, fit-up, welding, radiography etc.; clean-up, ROU restoration, pigging, flushing, gauging, hydrostatic testing with the quantity of corrosion inhibitor as required, dewatering with the addition of approved chemicals to neutralize the effect of inhibitor added during hydro test at required dosage, swabbing, drying, pre-commissioning and commissioning of pipeline including supply of all materials such as required type and quantity of pigs, manpower, equipment, consumables and carrying out all associated works as per relevant specifications, standards and approved drawings enclosed with the Contract document.

3.1.16 All welding and NDT shall be carried out as per welding specification and as per welding specification charts enclosed in the bid document.

3.1.17 Welding Techniques & NDT

Sl. No.	Description	Welding Technique	NDT
1	8"	Manual	X-Ray
2	6"	Manual	X-Ray
3	4"	Manual	X-Ray

Notes: For 8", 6" and 4" Pipeline:

a) 8", 6" and 4" Pipeline welding may be carried out as mentioned above

3.1.18 Welding of all tie-in joints including tie-in joints and bends on either side of major river/ canal/ road/ rail crossings/ other facilities as required including adjoining pipeline spreads, cutting of test header, re-beveling and tie-in with adjacent pipeline segments.

3.1.19 Carrying out welding including cutting, edge preparation (inclusive of grinding the edges of pipe, fittings, flanges, etc. to match with the matching edges of different thickness wherever required), fit-up, bending, pre heating wherever required, NDT including radiography and other non-destructive tests as specified. NDT requirements for process and other piping shall be in accordance with relevant specifications enclosed with the Bid document.

3.1.20 Field weld joints coating and corrosion coating of Long Radius (LR) bends and pup pieces of sectionalizing valves by Heat Shrink Sleeve. 100% solid high build epoxy (minimum 500 micron thk.) shall be applied for underground piping & valves.

3.1.21 Installation of all in-line insulating joints, valves, appurtenances, online instruments etc.

=====

- 3.1.22 Providing slope breakers in steep slope areas including supply of all materials, wherever required. Contractor shall carry out slope breaker survey and slope breaker shall be installed (before backfilling) as per standard after approval of Engineer-In-charge. Supply and installation of slope breaker as per specification and drawing in slightly undulating areas (having slope 6° to $< 20^{\circ}$); slope stabilization as per specification and drawing in highly undulating areas (having slope $\geq 20^{\circ}$).

Sand/soft soil padding of minimum 150 mm thickness around pipe wherever required in areas where trenching has been done in rock or gravel or hard soil including supply of sand/ soft soil. The pipeline trench shall not be filled with gravel and large stones or boulders. Supply and installation of rock-shield in addition to 150 mm of sand/soft soil padding around the pipe in rocky areas. The rock shield shall be of minimum 6 mm thick polyethylene mat as per COMPANY specifications. Contractor shall furnish all details of proposed rock shield to be used, for COMPANY's approval.

- 3.1.23 Providing engineered select backfill consisting of loosely compacted cohesion less soil like sand (for the areas prone to seismic activity) including supply of cohesion less soil like sand for a distance of 1 km on either side, as per job standards. The pipeline shall be surrounded by at least 0.6 m of select backfill. Extra digging of trench shall be carried out to comply with above requirement.

- 3.1.24 The list of crossings indicating crossing methodology will be provided by IGGL. However mentioned crossing methodology for respective crossing may vary depending upon site conditions during time of execution. In case of such situation, IGGL/PMC has reserve right to inform contractor about revised crossing methodology to be adopted. The payment will be regulated based on the actual crossing methodology executed as per relevant SOR item.

- 3.1.25 Carrying out National highway /State Highway, Expressway, railways and major road crossings by conventional/ boring/ Jacking/ HDD method.

- 3.1.26 Supply & Installation of 168 mm (6") CS conduit for OFC cable/ HDPE for all crossings with HDPE sub ducted in CS conduit (with proper end-sealing and arrangement of wire/etc for pulling OFC).

- 3.1.27 Supply and Installation of warning mesh over entire pipeline as per relevant specification. Warning mesh shall be laid 300 mm above the top of pipeline.

- 3.1.28 Providing all necessary barricading material, safety signboards, warning lights etc to safeguard the pipeline against accidents during construction of line in city area.

- =====
- Localized purging/ inertisation including supply of nitrogen during hook up with existing Pipeline/ piping at existing terminal, if any
- 3.1.29 Loading, unloading, handing over and transportation of all surplus COMPANY supplied free issue materials including line pipe to COMPANY designated stores and stacking of the same. Stacking of surplus pipe & other material shall be inclusive of supplying of sand bags etc.
- 3.1.30 Transportation of long radius bends for installation in terminals/ other areas to work site(s), return of surplus material/ bends etc. to storage
- 3.1.31 / work site/ Company's store shall be in Contractor's scope. LR bends shall be installed only at the locations shown in alignment sheets and approach drawings.
- 3.1.32 Carrying out cleaning, flushing, swabbing (as applicable), dewatering, testing and pre-commissioning of pipeline and associated facilities at Dispatch Station & Receiving terminal up to the respective battery limits. Locating all major and minor leaks during hydro-testing, if any.
- 3.1.33 Repair of leaks/ burst, not attributable to Contractor, occurring in Company supplied material, shall be carried out by the contractor and the Contractor shall be compensated as per provisions of the contract. However Contractor shall carry out repair of defects attributable to Contractor at no extra cost to Company. Contractor shall submit a report for failure to Company.
- 3.1.34 Carrying out magnetic cleaning (pigging with the help of magnetic pig to remove steel debris), electronic geometric pigging (caliper pigging) for each pipeline section/part including supply of all types of pigs, pig locating and tracking device, spares, consumables, manpower etc. as per specification enclosed with bid/ contract document.
- 3.1.35 Carrying out repair of all defects found during electronic geometric pigging including locating, digging, cutting, welding, NDT etc.
- 3.1.36 Commissioning of pipeline & associated facilities providing all equipment, manpower, machinery, consumables including required number of pigs and assistance as required during commissioning of pipeline system and associated facilities viz. Dispatch Terminal and Receiving Terminal up to the respective battery limits.
- 3.1.37 Final clean-up and restoration of ROU and other conveniences like temporary approach roads/ temporary works, barren land, road, rail, canals, water crossings, cultivable land etc. to original condition as per specification and drawings to the entire satisfaction of COMPANY and/ or authorities having jurisdiction over the same, including disposal of surplus construction materials to Company's designated stock

=====

yard(s) or as directed by Engineer-in-charge. CONTRACTOR shall restore stones laid to mark the boundaries of adjoining fields to original conditions. Contractor shall arrange necessary clearance from all concerned authorities/ land owners to the effect that ROU has been restored back to the original condition.

- 3.1.38 Disposal of surplus excavated soil from trench outside ROU.
- 3.1.39 Idle time preservation by filling Nitrogen at a positive pressure of 2 bar (g) as per specification, if required including supply of Nitrogen.
- 3.1.40 Preparation of as-built drawings, pipe-books, documents, photographs and project records as per specification and instructions of the COMPANY including furnishing of all Test Certificates/ Inspection Reports for all materials used for permanent installation. Taking over Crossing details from HDD agency (in case of separate agency) and compilation of all as-built drawings, project records, pipe book etc. shall be in laying contractor's scope of work.
- 3.1.41 Taking over surplus bare and coated pipe from coating contractor at storage yard after completion of work, loading, unloading, transportation and handing over of all surplus Company supplied free issue material including short length of pipes to Company's designated Storage yard as directed by Engineer-in-charge.
- 3.1.42 In case any activity though not specifically covered in schedule of rates description but same is covered under scope of work/ Specification / drawings, it is understood that the contractor shall do such performance & provisions so mentioned without any time & cost implication.
- 3.1.43 Any other works not specifically listed herein but are required to be carried out to complete entire work related to pipelines and the associated facilities.
- 3.1.44 Installation of casing pipes (by open cut/jacking/ boring/ any other trenchless technique) assembly, including supply of all materials, casing insulators and end seals, vents and drains etc. complete, at cased crossings.
- 3.1.45 Supply of HDPE duct for laying of OFC at crossings.
- 3.1.46 Providing loosely compacted cohesion less soil like sand, murrum, silty sand for specified distance in seismic prone areas.
- 3.1.47 Crossings of rivers/streams/canals by Open Cut:
- Pre-construction surveys, preparation of detailed construction method statement and calculations for Company's approval.
 - Geo-technical investigations, if required.
 - Site preparation and obtaining necessary permissions from concerned authorities.
 - Preparation of pipeline Launch way, continuous concrete coating of pipes, repair of damages to corrosion and concrete coating, string preparation, field welding, NDT including radiography, pretest of completed strings, corrosion and concrete coating of field joints, trenching, laying at approved depth,

=====

- backfilling including supply of select backfill material (where required), stabilization of banks, post installation hydro test, capping, providing and installing of markers, etc.
- e) Installation of HDPE conduit, laying of OFC inside the conduit. Contractor shall install pipeline and HDPE conduit together in river crossings and HDPE conduit shall be strapped using corrosion resistance straps to the main pipeline in the top quadrant. Stability of the combined installation shall be ensured.
- 3.1.13 HDD works shall be carried out in accordance with specification enclosed with bid package. For directionally drilled crossing, following shall be performed:
- a) Carrying out all surveys and collection of data, as may be required for the design and construction of the crossings.
- b) Carrying out all engineering, design calculations and preparing all construction drawings for laying of pipeline and optical fibre cable inside steel pipe as per requirements for installation of river crossings by HDD method.
- c) All construction activities required for installation of the crossings viz. site preparation, preparation of pipe string, repair of damages to corrosion coating, field welding, NDT including radiography, pretest of completed string, corrosion coating of field joints, holiday testing of complete pipe string, drilling in all types of soil including gravel, boulders and disintegrated and hard rock, installation of pipeline, post installation hydro-testing of the crossing section, capping, providing and installing markers at crossings.
- d) Field joint coating shall be carried out by Dirax heat shrink sleeves by Covalence (Seal For Life) or TBK/ DDX heat shrink sleeves by Canusa-CPC or FRDK sleeves by M/s CYG Changtong New Material Company Ltd. China.
- e) Supply of duct of flexible HDPE/plastic corrugated tubing for laying of OFC cable, preparation of steel conduit string and corrosion coating of weld joints.
- f) Installation of pipeline and 6" NB steel conduit for OFC (together in a single drilled hole or separately in two independent drilled holes).
- g) Tie-in with main pipeline after successful installation of pipeline at river crossing.
- h) Testing and jointing of OFC at either ends with OFC in main pipeline trench.
- i) Contractor shall dispose bentonite slurry safely as per technical specification and environmental requirements as applicable.
- 3.1.49 Clean-up and restoration of ROU and other conveniences like road, rail, canals, cultivable land, water facilities, irrigation facilities, boundary wall/fence etc. to original condition as per specification and drawings to the entire satisfaction of Company and/or Authorities having jurisdiction over the same, including disposal of surplus excavated soil and other construction materials to a location identified by Contractor approved by local authority without causing any disturbance to environment and to the entire satisfaction of Company.

=====

Contractor shall arrange necessary clearance from the concerned authorities/ land owners to the effect that ROU/ ROW has been restored back to original condition. Contractor shall carry out joint survey with representative of Competent Authority (CA) and will obtain clearance in writing from CA that ROU has been restored to original condition. Necessary clearance from statutory authority / NOC for restoring the ROU to original condition shall be in Contractor's scope. Necessary proof of restoration i.e. through photographs and video recordings will have to be submitted by the contractor where ever NOC is not available

- 3.1.50 Carrying out corrosion coating of long radius bends by heat shrink sleeve as per specification enclosed with tender document.
- 3.1.51 Tie-in with the pipeline at rail, road, river and other crossings including cutting of test headers as required and tie-in with terminal piping & with existing facilities as applicable.
- 3.1.52 At all pipeline tie-in locations, the trench shall be excavated further wherever possible and permanently lubricated HDPE duct shall be laid away (approx. 1 meter) from the pipeline to avoid damage to the HDPE conduit and to the pipeline.
- 3.1.53 Preparation of video films with audio commentary covering all aspects of pipeline construction annotated as required, conversion of the same to video CD/DVD ROM format and USB, submitting three (3) sets of the same.
- 3.1.54 All incidental and associated works and any other works not specifically listed herein but are required to be carried out to complete entire work related to pipelines and the associated facilities and making the entire pipeline system ready for operation

3.2 Associated Works for Pipeline Construction

- 3.2.1 Installation of casing pipes (by open cut/ jacking/ boring) assembly, including transportation of casing pipe from company store and supply of all materials, viz. casing insulators and end seals, vents and drains etc. complete, at cased crossings. In case, coated casing pipe is supplied as free issue material, then the contractor shall remove coating before installation.
- 3.2.2 Cased crossings shall be installed at locations as per instructions of Engineer in-charge. The number of crossings indicated in alignment sheets is subject to change based on engineering, construction and statutory requirements or the requirements of the authority having jurisdiction over a utility crossing.
- 3.2.3 Supply and installation of all types of pipeline markers including their painting suitable for **highly corrosive environment** as per specification and all associated civil works.

3.3 Piping Works at Dispatch Terminal, Receiving Terminal, IP Station, Tap- off Points, Injection points and Sectionalizing Valve Stations.

Facilities to be installed at various terminals (Despatch & Receiving), as a part of overall pipeline system are shown in respective Piping & Instrumentation diagrams (P&IDs) enclosed.

a) Dispatch & Receiving

Preliminary equipment layouts/ Plot plans and P&ID for the terminals/ stations are enclosed with this Bid. These drawings are indicative only and are enclosed to enable the Contractor to understand the nature of work involved. Issued for Construction (IFC) piping General Arrangement Drawings (GADs) shall be progressively furnished to the Contractor, at an appropriate time at project execution stage.

Contractor shall carry out all works strictly in accordance with the Issued for Construction (IFC) drawings and reference specifications/ standards, documents, data sheets etc. enclosed with this Bid document and instructions of Company/ Engineer- in-Charge and other provisions of Bid document.

The Contractor's Scope of Work for the work tendered shall consist of, but not be limited to, supply (as indicated in Scope of Supply), installation, testing, pre-commissioning and commissioning of terminal piping complete, with all associated mechanical, civil, architectural, structural, corrosion monitoring system, electrical instrumentation, telecom, fire fighting, water supply works etc. as applicable including all such works which though specifically not indicated here but will otherwise be required to complete the work in all respects.

The scope indicated below shall be read in conjunction with Schedule of Rates as applicable, drawings, standards, specifications and other documents forming part of the Contract document.

- 3.3.1 "Receiving and Taking over" as defined in specifications of all Company supplied materials including equipment from the Company's designated place(s) of issue defined elsewhere, transportation including loading, unloading, handling from Company's designated place(s) of issue to Contractor's work site(s)/ workshop(s), including arranging all necessary intermediate storage area(s) thereof till the materials are installed in permanent installation.
- 3.3.2 Procurement and supply of all materials, equipment that are included in the scope of supply of Contractor, transportation of all materials from manufacturer's works including loading, unloading, handling, storing and transportation to work site(s)/workshop(s) including arranging all necessary intermediate storage area(s) thereof, as required.
- 3.3.3 Fabrication, erection, testing of all above-ground/ buried piping system including installation of metering skid, scrapper trap etc. consisting of pipes, valves (manual and actuated), flanges, fittings, flow tees, pig signalers, insulating joint etc.; carrying

=====

out all applicable works associated with buried pipeline within the Terminal/Intermediate pigging station/ SV station boundary wall/ fence (wherever applicable), carrying out welding, NDT including radiography; weld repairs/ retesting, cleaning/flushing hydro testing, dewatering, functional testing, cutting of mainline and beveling (if required), excavation in all types of soil for installation of piping and pipe supports, pre-commissioning, providing commissioning assistance (wherever required) and commissioning including supply of all materials and manpower that are required during pre-commissioning and commissioning and all associated works.

- 3.3.4 Preparation of isometrics and/or fabrication drawings required for the purpose of fabrication during execution of work.
- 3.3.5 Obtaining all necessary approvals and work permits from concerned local authorities having jurisdiction including hot work permit as applicable for performing the work in existing terminal facilities. Arranging of adequate fire-fighting equipment viz. fire brigade, fire extinguisher, shielding from existing facilities, oxygen mask etc. for carrying out the work safely to the satisfaction of COMPANY.
- 3.3.6 Carrying out welding including cutting, edge preparation (inclusive of grinding the edges of pipe, fittings, flanges, etc. to match with the matching edges of different thickness wherever required), fit-up, bending, pre heating wherever required, NDT including radiography and other non-destructive tests specified. NDT requirements for process and other piping shall be in accordance with relevant specifications enclosed with the Contract document.
- 3.3.7 Installation of all types of valves (manual/ actuated), all types of inline/ online instruments such as PSVs (other than those covered separately), safety valves, tapping for thermowells, sample connections, pressure gauges, corrosion monitoring system etc. for all sizes and ratings including fixing of gaskets, bolts, studs and nuts of all sizes, ratings and materials.
- 3.3.8 Installation of all in-line and on-line instruments including Skin Temperature measurement assemblies
- 3.3.9 All works for corrosion monitoring system (CMS) as described in relevant document enclosed elsewhere with Bid document.
- 3.3.10 All associated civil works, viz. levelling, filling and compaction of station areas as required, necessary stone pitching at the sides of earth fill (if required), excavation of pits, gravel filling, paving as required, access road to installation from nearest metalled road, etc.
- 3.3.11 All associated structural and mechanical works including supply of all materials required, unless covered separately elsewhere in the Bid document, including construction of foundations (PCC/ RCC works) for equipment and pipe supports and sleepers, fabrication and erection of supporting structural elements for piping such as shoes, clamps, anchors, guides, insert plates, brackets, structural column, valve operating platforms, pipe crossovers etc. Contractor shall provide grating as per details currently included in the tender document or as per details furnished subsequently.

- =====
- 3.3.12 Supply of bolts, nuts, gaskets, washers, U bolts, clamps, clips, gaskets for supports for all piping works.
 - 3.3.13 Supply, fabrication and erection of supporting structural elements for piping such as shoes, clamps, anchors, guides, insert plates, brackets, structural column etc.
 - 3.3.14 All associated structural, instrumentation, telecom, mechanical and civil works including supply of all material required, covered separately elsewhere in the Bid document.
 - 3.3.15 Hook-up of piping with equipment and vessels and hook-up of all piping at the battery limit with the pipeline/ piping including cutting of temporary test header, re-beling, NDT, fit-up, welding, radiography etc. including interface/ coordination as required with other Contractor(s)/Agencies.
 - 3.3.16 Painting of above ground piping (including supply of materials), structural steel elements, pipe supports, all equipment and all related miscellaneous items as required and as directed by Engineer-in-charge. Paint shall be suitable for highly corrosive environment in accordance with specification. Wherever touch up/ repair of primer is required, high build epoxy zinc phosphate primer shall be used.
 - 3.3.17 Protective coating of 100% solid high build epoxy minimum 500 micron thk. for all underground piping, valves, fittings, etc.
 - 3.3.18 Corrosion protection coating of all field weld joints for buried piping of all sizes including supply of all materials.
 - 3.3.19 Cleaning (card board blasting), Hydro testing, dewatering and drying of piping system of all sizes as per specifications enclosed.
 - 3.3.20 Final clean up and restoration of site, facilities etc. as per the requirement of COMPANY/ Engineer-in-Charge including filling (wherever required) and grading of areas around stations for avoiding any local flooding of area.
 - 3.3.21 Transportation and stacking of all surplus COMPANY supplied free issue material to Company's designated store after completion of works or as directed by Engineer-in- Charge.
 - 3.3.22 Preparation of as-built drawings, documents and project records as per instructions of Engineer-in-Charge.
 - 3.3.23 Preparation of detailed procedures for fabrication, installation, testing, pre - commissioning and commissioning. Such procedures shall be submitted to COMPANY/ Engineer-in-Charge for review and approval.
 - 3.3.24 Obtaining all statutory clearances, approvals, permissions and hot work permit for the works as required.
 - 3.3.25 Fabrication and erection of piping supports and change of existing support/ additional supports installed by others as directed by Engineer-in charge.
 - 3.3.26 Idle time preservation of mainline and terminal piping by nitrogen gas with positive pressure 2 bar (g) for specified period.
 - 3.3.27 Any other works not specifically listed herein but required for completion of the works in all respects.

=====

- 3.4 All construction works shall be carried out as per "Issued for Construction" drawings, procedures, specifications and applicable codes and standards. Any changes at site shall also need prior approval from the COMPANY and revision of drawings.

3.5 **Civil, Architecture & Structural Works**

Civil, Architecture & Structural works shall be carried out as per the scope detailed in particular job specification enclosed as Annexure-III and SOR enclosed elsewhere with the tender.

3.6 **Instrumentation Works**

Instrumentation works shall be carried out as per the scope detailed in particular job specification enclosed as **Annexure-IV** and SOR enclosed elsewhere with the tender.

3.7 **Telecommunication Works**

Telecommunication works shall be carried out as per the scope detailed in particular job specification enclosed as **Annexure-V** and SOR enclosed elsewhere with the tender.

3.8 **Electrical Works**

Electrical works shall be carried out as per the scope detailed in particular job specification enclosed as **Annexure-VI** and SOR enclosed elsewhere with the tender.

4.0 SCOPE OF SUPPLY

4.1 Materials to be supplied by COMPANY as Free Issue

Company shall supply the following Pipeline/ Terminal piping materials required for permanent installation to the Contractor at an appropriate time during the execution stage as free issue materials:

Line Pipes:

Entire required quantity of bare/ coated line pipes of all thickness shall be supplied by Company. Transportation of the line pipe from designated locations to work site shall be in the scope of the CONTRACTOR.

- a. Bare Line Pipes API 5L Gr. X-70 of 8" x 7.04 mm, 6" x 6.4 mm and 4" x 6.4 mm shall be used for above ground piping in front of scrapper trap by the respective part Contractor.

=====

- b. The quantities of coated and bare line pipes indicated in the bid document are approximate and may vary. The exact quantity shall be intimated to the Contractor after award of work.
- c. Contractor to note that quantities of line pipe indicated in the bid document includes contingency/ extra length over and above the actual requirements. Surplus pipes shall be taken over by the Installation contractor from the coating contractor at storage yard after completion of Installation works. It is the responsibility of installation contractor to return surplus pipes to the COMPANY designated storage yard as per instructions of Engineer In-Charge after completion of installation works.
- d. Receiving and taking over of bare and coated line pipes at Storage yard including its inspection. All trucks / trailers for transportation of line pipes from storage yards to site/ ROU/ Contractor's storage Yard shall be supplied by contractor. The coating contractor shall load the coated/bare line pipes onto the truck/trailers supplied by contractor.
- e. The exact location of Pipe Storage Yards shall be intimated to the Contractor at the time of award. Contractor shall be responsible for performing all works as per scope of work at the finally selected storage yard location by the COMPANY at no extra time / cost to the COMPANY.
- f. Transportation of pipes and other free issue material from place of issue is in Contractor's scope. Contractor shall note that the prices indicated in the Schedule of Rates shall be inclusive of taking the delivery and transportation of line pipes and other material from the above storage yard/ stockyard to work place(s).
- g. Bevel Protectors of the line pipes shall be the property of the pipeline installation Contractor. He has to collect and dispose of the bevel protectors. Contractor shall quote accordingly.

Other Terminal Piping Materials

Company shall supply the following materials to be installed as a part of Terminal piping as free issue:

- Scrapper traps including handling devices, pig signalers, quick opening closure and pressure safety valves.
- Insulating joints
- Flow tees
- All types of valves (ball, plug, globe etc.). Wherever required, actuators shall be supplied along with valves.
- Quick Opening End Closures of all sizes for blow down lines.
- All types of fittings such as elbows, tees, reducers, weldolets, sockolets etc.
- Flanges/ blind flanges/ spectacle blinds/ spacers & blinds

- =====
- Metering skids

Contractor shall return all surplus material to company designated location as decided by Engineer- In- charge.

4.1.1 Conditions for COMPANY Supplied Material

- i. The Contractor shall be responsible for taking over of the material and subsequent handling, hauling, transportation to the actual work site(s)/fabrication yard(s) and storage & safe keeping of the materials. Contractor shall arrange all equipment/ cranes etc. for loading these materials on their truck/trailers for transportation except line pipe.
- ii. The Contractor shall inspect all COMPANY supplied free issue materials at the time of taking over from the COMPANY and defects noticed, if any, shall be brought to the notice of COMPANY/ COMPANY representative and jointly recorded. Once the material has been taken over by the Contractor, all the responsibility for safe keeping of the materials shall rest with the Contractor.
- iii. Every month the Contractor shall submit to the COMPANY an account for the material issued to the Contractor in the Performa prescribed by Engineer-in-Charge.
- iv. On completion of the works, Contractor shall submit a "Material Appropriation Statement" for all materials supplied by the COMPANY as free issue materials.
- v. The scrap allowances shall be permissible as per the provision of Bid document. The percentage allowance shall be accounted on the basis of actual consumption as incorporated in the work.
- vi. All unused and scraps material shall be the property of the COMPANY and shall be returned by Contractor to COMPANY at COMPANY's designated storage point(s) including transportation of the. Contractor shall be responsible for the proper measurements of the unused/ scrap materials to be returned to the COMPANY.

4.2 Materials to be supplied by CONTRACTOR

The procurement and supply, in sequence and at appropriate time and place, including inspection and expediting, of all materials and consumables required for completion of the work as defined in this bid document except the materials specifically listed under para 4.1 above as COMPANY free issue material, shall be entirely the CONTRACTOR's responsibility and the item rates quoted for the execution of the WORK shall be inclusive of supply of all these materials. All materials supplied by the CONTRACTOR shall be strictly in accordance with the requirements of relevant COMPANY material specifications enclosed with the Contract document. All equipment, materials, components etc. shall be new and specifically purchased for this job from Company approved vendors, duly inspected by third party inspection agency along with manufacturing certificate for relevant pressure containing equipment/ materials/ parts/ components etc. For other contractor supplied equipment/ materials/ parts/ components, contractor has to submit test certificate as per technical specification/ applicable codes/ approved QAP (as applicable) before supply. As a minimum, the materials to be supplied by CONTRACTOR may include but shall not be limited to the following.

- i. All equipment & consumables such as welding electrodes, oxygen, acetylene, inert gases, all types of welding electrodes, filler wires, solder wires, brazing rods, flux etc. for welding/ cutting and soldering purposes.
- ii. All materials for all types of pipeline markers including cement, sand, reinforcements, structural steel etc. and paint conforming to normal corrosive environment as per specification enclosed with the bid documents.
- iii. Casing insulators and end seals and materials for casing vents and drains as per drawings.
- iv. All materials required for continuous concrete coating/ gravel filled geo-textile bags/ saddle weight for providing negative buoyancy to the pipeline wherever required. Contractor shall take prior approval of COMPANY and furnish all details including design calculations in case of use of purpose built geo-textile bags. For river crossings, only continuous concrete coating shall be provided for negative buoyancy.
- v. Supply of warning mesh as per the technical specification/ EN:12613 standard (latest edition) .
 - The material of warning mesh shall be of virgin quality polyethylene (PE) / polypropylene (PP) as per EN:12613 (latest edition).
 - It shall have UV-resistant, non- biodegradable, non-hazardous and non-toxic properties. If warning mesh is made from PE material, then, the same shall have anti-rodent properties in addition to above properties
 - Warning mesh shall have golden yellow colour and printed text shall

=====

be in red colour and of non-deletable type with high abrasion resistance.

- All test shall be conducted and accepted as per requirement of EN:12613 (latest edition) unless otherwise mentioned in approved QAP.
- Handling including loading and unloading, packaging, transportation, laying shall be carried out as per manufacturer's / supplier's guidelines so that material at all stages up to laying shall be in safe and sound condition.

Printer matter and their layout shall be approved by PMC/owner before supply

Print matter shall be printed in English and Local language alternatively at every 1 m distance. Manufacturer's name, year of manufacturing and batch/lot number shall appear at every running meter of warning mesh strip

In case warning mesh is supplied in more than 500 mm width, a sample of width 500 mm from the same lot/batch of material shall be tested as per requirement of EN:12613. The sample drawn should have same production parameters (except width) as of higher width section.

Contractor has to submit the QAP of warning mesh for approval before commencement of production. Inspection of material will be done at vendor's works by owner/PMC representatives. Any test failed during inspection for the referred lot/batch, the total lot/batch will be rejected.

Print matter text/ font size will be of letter height 15 mm and thickness of letter line 2 mm. However vendor to ensure that print matter text size shall be legible when viewed from the range of minimum 5 m distance without magnification.

- If centre width of the mesh is not sufficient to accommodate the requirement mentioned above, in that case the vendor may put separate PE Centre band/strip to accommodate the below mentioned requirements.

PE center band/strip shall be golden yellow color and made from virgin quality, high density polyethylene, center band/strip thickness shall be of minimum 0.1 mm thick and shall have UV-resistant, non- biodegradable, non-hazardous, non-toxic and anti- rodent properties.

- a) PE center band /strip width shall be 100mm for warning mesh width upto 550mm and 150 mm

width of PE center bend shall be kept for warning mesh width more than 550mm

b) PE centre band/strip shall be pasted on centre of the warning mesh in such a manner, so that after paste inherent material properties of warning mesh shall not be compromised. Further peel strength of the used adhesive material shall be sufficient enough so that PE centre band/strip shall not peel off during handling, transportation, storage, laying in trench and in wet environment/condition either at above ground or underground condition. Manufacturer/Supplier shall give declaration/ compliance statement regarding the used adhesive for paste purpose of PE centers band/strip

- vi. All materials and consumables required for external corrosion coating and concrete coating (where required) of field weld joints.
- vii. All materials required for field joint coating, corrosion coating of LR bends, and repair of damaged corrosion coating of line pipe. Contractor shall confirm that proposed field joint coating material is suitable for type of terrain encountered along pipeline route. Contractor shall take prior approval from COMPANY for field joint coating material to be used. The cut back length shall be 150 mm + 20 (-0) mm.
- viii. All material, equipment & consumables for HDD works including Dirax heat shrink sleeves by Covalence (Seal For Life) or TBK heat shrink sleeves by Canusa-CPC or equivalent.
- ix. All materials required for sand/ soft soil padding around pipeline and optical fibre cable, select backfill of approved quality, slope breakers, bank stabilization of water crossings etc.
- x. For rocky areas, rock shield shall be provided in addition to sand/ soft soil padding. Rock shield shall be of high density extruded polyethylene mesh with following properties:

Thickness	ASTM D-1777	6 mm (minimum)
Compressive Strength	ASTM D-1621	250 PSI
Impact Resistance	ASTM G-14	100 in-lb

Contractor shall obtain prior approval from Engineer-in-charge for rock shield material & its application procedure

- xi. All materials including consumables, nitrogen etc. required for hook-up with existing facilities and equipments.

- =====
- xii. Mobilizing and providing all necessary barricading material, safety signboards, warning lights etc. to safeguard the pipeline against accidents during construction of line in city area.
 - xiii. All safety tools, tackles, devices, apparatus, equipment etc. including ladders and scaffolding complete as required.
 - xiv. All stud bolts, nuts, jack screws, all type of gaskets (metallic spiral wound gaskets) in required quantities to be used for permanent installation into the system for all sizes and ratings of flanges and flanged valves, equipment etc., including nuts, bolts, gaskets, washers, U bolts, clamps, clips etc. for pipe/equipment supports. All materials for supports shall be in contractors account.
 - xv. All types of coating and painting materials including primer and paints suitable for normal corrosive environment for painting above ground piping and 100% solid high build epoxy (minimum 500 micron thk.) for underground piping/ valves, etc.
 - xvi. All pipes, fittings, flanges, blind flanges, gaskets, nuts, bolts, clamps, strainers, equipment/ consumable, metallic blinds, temporary gaskets as required for filling, pressurizing, hydrostatic testing and dewatering, swabbing etc. including test headers for pigging and hydrotesting.
 - xvii. All materials such as cohesion less soil/ sand required for installation of pipeline in seismic active zones.
 - xviii. All materials, equipments, consumables etc. required for magnetic cleaning and caliper pigging of pipeline.
 - xix. All materials required for civil, structural and general civil works including structural steel, cement, reinforcement, concreting, grouting etc. in Dispatch/Receiving terminal facilities including all types of equipment and material required for excavation/ construction of pits for equipment and instrument installations and steel/ structural steel materials of all types.
 - xx. All materials required for repair/ restoration of pavements, roads, bunds, walls, other structures affected/ damaged by Contractor's construction activities. Materials shall be equivalent/ superior to those used for original construction of the facility.
 - xxi. All equipment and consumables required for hydrostatic testing like pumps, pressure and temperature gauges, test water and corrosion inhibitors for test water for hydrostatic testing.
 - xxii. Supply of insulators, end seals etc. in case of cased crossings; supply of 6" NB CS conduit. CS conduit of 168 mm dia. for OFC shall also be used in open cut river crossing by strapping with concrete coated line pipe.
 - xxiii. All materials, consumables and equipment required for welding and for all types of tests and NDT such as radiography, ultrasonic testing, magnetic particle, dye penetrate examination etc. including radiography film, X-ray/ gamma ray machines, developing equipment and consumables, Ultrasonic equipments etc.
 - xxiv. All safety tools, tackles, devices, apparatus, equipment etc. including ladders and

- =====
- scaffolding complete as required.
- xxv. Steel materials such as structural steels, reinforcement steels and steel for all types of supports, foundations, ladders, platforms, etc.
 - xxvi. All steel materials such as structural steel, reinforcement steel, shims, wedges, packing plates (machined wherever required), pipes, nuts & bolts, washers, U-bolts, anchor bolts, clamps, clips, pipe saddles/ shoes etc. as required for the fabrication of structural supports and supports basements/ foundations, platforms etc. Pipes supplied by COMPANY shall not be used for fabrication of supports and support saddles etc.
 - xxvii. All materials for corrosion protection of buried piping, pipe fittings, valves, casing pipes, etc.
 - xxviii. All materials and equipments related to blasting of rock/ controlled blasting for excavating trench, grading of ROU, pipeline & pipe laying/ installation and other works.
 - xxix. All materials for surface type temperature element.
 - xxx. Mobilizing Pipe/ cable locator for locating existing pipelines/ cables.
 - xxxi. All types of corrosion measuring instruments e.g. corrosion coupons, corrosion probes etc. wherever required as per specification.
 - xxxii. Sand ridges (sand, polyethylene sheets etc.) and other materials for stacking of surplus pipes at Company's designated storage yard.
 - xxxiii. Corrosion inhibitor, oxygen scavengers and bactericides for water used for hydrostatic testing including water for testing.
 - xxxiv. Required quantities of nitrogen for idle time preservation and pre-commissioning of Pipeline and associated facilities, if required.
 - xxxv. Supply of Assorted pipes
 - xxxvi. All pigs for cleaning, gauging, filling, dewatering, swabbing, drying, pre-commissioning and commissioning of the pipeline.
 - xxxvii. All materials i.e. fittings, flanges, valves, blind flange etc. required for isolation and nitrogen purging for pipe section, manpower, equipment, pigs, consumables, nitrogen required for carrying out commissioning of pipeline along with necessary piping and instrumentation connection for monitoring flow rate, pressure, temperature etc. providing temporary facilities for venting/ flaring along with necessary piping, valves and instrumentation etc. shall be in contractor's scope.
 - xxxviii. All other materials not specified above but required for successful completion of the entire work whether temporary or permanent in nature.
 - xxxix. The item rates quoted for the execution of the work shall be inclusive of supply of all materials mentioned above unless specifically covered otherwise under schedule of rates. The quantities indicated in schedule of rates under Contractor's scope of supply are approximate. Contractor shall carryout MTO of all materials required based on IFC general arrangement drawings, P&IDs and firm up the actual requirement of materials. All escalation/ extra materials procured by Contractor for contingencies shall be Contractor's

=====

property and no payments shall be made for such materials. Payment shall be made for actual materials installed by the Contractor as a part of permanent installation.

- xl. In case, any item is covered in scope of work but is not present in Schedule of Rates (SOR), it will be assumed that bidder has included cost implication of those items in their total price.

4.3 STORAGE OF MATERIALS

4.3.1 All materials shall be preserved against deterioration and corrosion due to poor or improper storage while under the custody of the Contractor.

4.3.2 All materials shall be duly protected by the CONTRACTOR at his own cost with the appropriate preservatives like primer, lacquer coating, grease etc. and shall be covered with suitable material to prevent them from direct exposure to sun, rain, wind and dust.

4.3.3 Whenever applicable, pipes shall be stacked according to the identification marks and stacks shall be arranged on sleepers/ sand pads at least 300 mm above ground.

4.3.4 The CONTRACTOR shall check that valves, fittings, specials etc. are not subjected to corrosion from hydrostatic test water remaining in the packing. Any such condition when detected should be brought to the notice of Engineer-in-Charge and remedial measures taken as directed.

4.3.5 All machined surfaces shall be properly greased and should be maintained and protected from damages.

4.3.6 Openings of equipment, machinery, valves etc. shall be kept blocked/ covered with blinds to prevent entry of foreign matter

4.3.7 As far as possible materials shall be transported to the site of erection only just prior to the actual erection and shall not be left lying around indefinitely on ground but Kept on packing/ sleepers etc. to maintain the minimum distance from the ground as specified and/ or as per directions of Engineer-in-Charge

5.0 SCOPE OF WORK AND SCOPE OF SUPPLY FOR OTHER DISCIPLINES

Detailed scope of work and scope of supply covered in this document given above is pertaining to pipeline laying and associated pipeline terminal/ station piping works only. Detailed scope of work related to civil, architectural, structural, corrosion monitoring system, electrical, instrumentation, and telecom are covered in separate documents in detail and the same are enclosed elsewhere with the Bid document. All these documents shall be read in conjunction with this document and shall form an integral part of the overall Scope of work of the Contractor(s).

6.0 OTHER CONDITIONS OF BID

=====

6.1 Basis of Work

6.1.1 All piping/ pipeline works shall be carried out as per following:

- a) Piping and Instrumentation Diagram (P & IDs) and line schedule
- b) Approved for construction Piping General Arrangement Drawing (GADs)
- c) Approved for construction Alignment sheets/ crossing drawings.
- d) Piping Material
- e) Specifications. Specifications
- f) Piping support standards/ drawings and support index.
- g) Any other drawings/ sketches prepared by Company and/ or by the Contractor and approved by the Company

6.2 Topographic Survey

The alignment sheets including plan and ground profile details, details of various crossings are enclosed along with the bid document for contractor's reference and information only.

It shall be the Contractor's responsibility to verify the pipeline routes. Wherein Contractor's opinion the survey and investigation data is not found to be sufficient in detail, it shall be the responsibility of the Contractor to collect/ arrange and provide such topographic surveys.

Further, successful contractor(s) after award of work and subsequent intimation from EIC, shall immediately carry out topographic survey and geotechnical investigation of all crossings other than those provided by the company in the pipeline route and prepare crossing drawing for each crossings. The drawing shall be submitted for Company's approval. IFC alignment sheet shall be issued based on the input of above crossing drawings.

The formats for crossing drawing to be used are enclosed with the bids. Contractor shall also incorporate the crossing details in the as built alignment sheet after completion of work

Contractor shall also perform any additional topographic surveys and geotechnical investigations that may be required for local detours or at crossings or at any other location during execution of the project without any extra cost to the COMPANY. Pipeline alignment shall be marked on village maps by CONTRACTOR wherever detouring is beyond existing ROU. CONTRACTOR shall be deemed to have considered such eventualities while formulating his bid

6.3 Alignment Sheets and Station Drawings

Surveyor Alignment Sheets and crossing drawings are included in the Bid package. These drawings/ details are indicative only and are furnished to enable to estimate the quantum of work and to quote a firm price for the work.

Final drawings marked "Issued for Construction (IFC)" shall be furnished by COMPANY to CONTRACTOR at project execution stage after submission of crossing drawings by the Contractor as per mentioned elsewhere in the bid.

Typical station drawings are also included in the Bid package. These drawings are marked as "Tender Purpose Only".

The IFC (Issued for Construction) drawings issued during project execution stage may vary from the drawings included in the Bid Package. CONTRACTOR shall carry out all works in accordance with these IFC drawings at no extra cost to the COMPANY

6.4 Description of Pipeline Route

6.4.1 Route Description

The detailed route description shall be provided by the concerned EIC.

- 6.4.2 The number of crossings and features along the pipeline route described above are approximate. CONTRACTOR shall not be entitled for any compensation in terms of time and cost in case of variation in the above. Contractor shall verify the above data and carry out pipeline installation works without any extra cost & time to COMPANY.

6.5 Soil Investigation and Soil Resistivity survey

COMPANY has carried out soil investigation (visual classification/ stratification) and resistivity survey along the entire pipeline route. Data collected from such surveys is enclosed with the bid package to the extent available. Such data is issued to CONTRACTOR for his reference purpose only. It shall be Contractor's responsibility to verify the data and satisfy himself with regard to accuracy and utility of data. CONTRACTOR shall carry out any additional soil data/ investigation required for installation. CONTRACTOR shall not be entitled for any compensation in terms of time or cost in case of any variation in actual site conditions from the data furnished in the bid package. It shall be Contractor's responsibility to familiarize himself with sub-soil conditions along the pipeline route and workout the lengths of pipeline to be laid in different subsoil conditions including the quantum of rock excavation that would be necessary. Unit rates quoted shall also be inclusive of all rock excavation. No extra compensation shall be payable to CONTRACTOR for any rock excavation whatsoever.

6.6 Pipeline R.O.U.

Contractor shall carry out construction work within the width of pipeline ROU as made available to them with no time and cost implication to the Company. The Contractor shall arrange any additional ROU requirement for construction purposes. It shall be Contractor's responsibility to make arrangement for any additional land required for fabrication, construction, storage and all other work areas. In certain restricted areas such as private holdings, congested and plantation areas etc. ROU may be restricted to a width of 3-5 meters. In forest areas only 10 m ROU will be made available to the contractor. Contractor shall propose suitable execution methodology and time schedule for construction/ execution of work at areas of restricted ROU and deploy adequate equipment & manpower etc. as required. Contractor shall also arrange additional land during installation of Pipeline by HDD.

Damages, if any, to existing pipeline and facilities shall be Contractor's account. Wherever the detouring is carried out beyond ROU during pipeline installation, the detoured pipeline alignment shall be marked on village maps by the pipeline installation Contractor.

6.7 PIPELINE PASSING THROUGH CITY AREAS

In case the pipeline passes through city areas, it will be laid generally in the carriage way. Wherever it is not possible to lay the pipe line on the carriage way for any reason whatsoever, the pipeline will be laid on service road / footpath. It will be the responsibility of the Contractor to identify all the underground utilities after surveying the area along the gas pipeline route and lay the pipeline with clear distance of 20 cm from other existing utilities like cable, water pipeline etc. In case of hydrocarbon pipeline the clear distance shall be 50 cm.

6.7.1 RESTRICTION OF ROU

- a) In congested urban/industrial areas where the exact location of the existing services (aboveground as well underground) are not known, the contractor shall contact the concerned authorities to get the permission to cross the existing utility including approval of the final alignment of the pipeline before commencement of work. Contractor shall obtain the Digging Permit from the respective authority. In addition to this acquisition of NOC from the respective utilities companies will be also in the scope of the contractor
- b) In some areas due to several underground obstacles encountered during construction, mechanical trenching may not be possible. In such cases Contractor shall perform the work by manual means without any Cost as well as time implications. The contractor shall finalize

=====

the alignment of pipeline by making the trial pits at regular intervals in order to ensure the location of existing underground utilities.

- d) In urban/ Industrial areas where there are numerous underground utilities, the cover of 1.0m /1.5 m may not be sufficient; Contractor will not raise any compensation for any such necessary deepening. Due to deepening of trench it may be required that shoring of trench may be required to avoid collapse of the same along the road. The same shall be done by the contractor without any cost implications.
- e) In city areas where, due to restrictions by the statutory authorities, the movement of heavy machinery is not allowed, the laying /Construction activities shall have to be carried out manually. Only tyre mounted equipment such as Hydra/ JCB etc. will be permitted with consent of the concerned authorities.
- f) The authorities may impose stringent conditions for laying the pipeline in certain areas like limited length of working section, night work shift only etc. Thus the contractor must submit his working methodology to relevant authorities in order to obtain the necessary permission for laying the pipeline prior to commencement of work.
- g) to non-mobilization of the heavy machinery and due to underground utilities, the welding of long pipe string above ground and lowering may not be possible, therefore welding may need to be carried out in the trench by making bell holes for individual pipe or small sections of pipe.
- h) To comply with the agreed work schedule, the contractor may work in shift or extended hours. The Contractor shall be deemed to have taken into consideration all variations as mentioned above at the time of formulating his bid and no extra compensation either by way of time or cost shall be admissible

6.7.2 PARTICULAR INSTRUCTIONS

- a) In Principle all statutory permissions from all concerned shall be obtained by IGGL. However, all activities related to liaison, co-ordination etc. with all authorities needed to achieve the work as per schedule will be under Contractor's scope including taking work permit/ Digging Permit before commencement of work. Contractor shall also inform and seek necessary permission from the local traffic police before commencement of trenching work.

- =====
- b) For access route to the working strip, the Contractor will be responsible to negotiate with the relevant owner, tenant or authorities. Any deemed compensation will be borne by the Contractor
 - c) The contractor shall be responsible for overall entire quality control activities for the present project.
 - d) Contractor proponent shall have to take prior approval of concerned Government agencies while carrying out blasting wherever required.
 - e) Contractor proponent shall have to take preserve top soil dug and shall be restored to original condition on completion of the work.
 - f) Owner shall obtain permission from the Forest department. However, required assistance to get the permission from the respective authorities, necessary liaison, co-ordination etc., with the authorities needed to achieve the work as per schedule including taking work is in the Contractor's scope.
 - g) While carrying out the laying activities any damage to other utilities to be repaired by the contractor to the full satisfaction of the utility agency. Any claim arises out of damage of other utilities shall be borne by the contractor.
 - h) Contractor proponent shall construct the pipeline and other infrastructure and adopt safety measures as per the standards & specification laid down by the concerned agencies from time to time.
 - i) Contractor proponent is required to comply with the manufacturing, Storage and import of Hazardous Chemicals Rules -1989 framed under the Environment (protection) Act 1986.
 - j) On completion of all temporary work structures, surplus materials and wastes shall be suitably disposed off.
 - k) Similarly any additional conditions issued by statutory authorities will also have to be complied with by the contractor without any cost implications.

6.7.3 PREPARATION OF THE CONSTRUCTION SITES

The overall duration of the works at every point of the pipeline route, from the opening of the working area to lowering of pipeline and trench backfilling shall not exceed the permit condition of relevant authority.

6.7.4 WORKING STRIP

No ROU exist for the city portion line along the authority land. Working strip may be available along the road side for the construction site. Contractor should deploy suitable equipment and adopt his working methodology accordingly.

6.7.5 REDUCING THE WORKING STRIP

Contractor shall not be compensated for any reduction in the width of working strip.

6.7.6 REVERSE OF THE WORKING STRIP

No fencing of any kind along the pipe route is essential to be provided. However, it remains the responsibility of the Contractor to barricade the area of open trenches so that no untoward accident takes place.

6.7.7 EXCAVATIONS (UNDERGROUND OBSTACLES)

In congested area or if deemed necessary by Owner's Engineer or concerned authorities where numerous utilities may be encountered the contractor should carry out the excavation manually without entitlement of any compensation.

6.7.8 REINFORCED CONCRETE SLABS AS MECHANICAL PROTECTION FOR THE PIPE

Crossing of utilities will be done by invariably going below the utilities maintaining a clear gap of minimum 20 cm except hydrocarbon pipelines. From hydrocarbon pipelines, clear gap of minimum 50 cm shall be maintained. If due to site constraint it is not possible to lay the pipeline as per the above cover requirement, Contractor shall initiate the proposal for approval of Deviation and obtain written permission from EIC.

6.7.9 MARKERS

Pipeline Warning Markers shall be installed at each and every Kilometre. Apart from this, additional warning markers shall also be installed at each side of highways (NH/SH), major district roads (MDR), all metalled roads, railway crossings, water body crossings, any other major crossings and at entrance to stations.

=====

For urban Agglomeration (UAs) / Towns having a population of 1 lakh or more, the warning marker shall be installed at least at every 50 meters and if required additional markers shall be installed where there is possibility of damage or interference.

Pipeline Warning Sign shall in general be installed at

- a) National and State Highway Crossings
- b) Other Road Crossings
- c) Railway Crossings
- d) Minor Water Crossings (less than 15m width)
- e) Minor Water Crossings (above 15m width)
- f) Major Water Crossings
- g) Valve Station
- h) And at any other location as shown in the approved drawings and as directed by the COMPANY.

Pipeline Warning Sign shall identify the existence of the pipeline

Aerial markers shall in general be installed along the pipeline at every kilometers intervals and at places specified by COMPANY. The aerial kilometer marker having the warning details can also be treated as warning marker.

Kilometre markers shall in general be installed at every one (1) kilometre interval along the pipeline route and in place of every fifth kilometer marker, aerial marker shall be provided. The Aerial/ Kilometre Markers having the warning details can also be treated as Warning Marker.

Right-of-Way/ boundary markers shall be installed at every 250 metres interval along the entire pipeline route. These shall be installed on either side of the pipeline alignment to define the ROW boundary limits. These shall also be installed at pipeline turning points to maintain the continuity of the ROW limits.

In urban agglomerates (UAs)/ towns having a population of 1 lakh or more, pipeline route marker shall be installed at least at every 25 meters.

6.7.10 DIRECTIONAL MARKERS

Direction markers shall be installed to identify the significant turning points of the pipeline during aerial traverse. One direction marker shall be installed at each

=====

turning point. In addition, direction markers shall also be installed along the pipeline alignment at 150 m upstream and downstream of turning points.

6.7.11 EXCAVATED MATERIAL

- a) The excavated material shall be placed in such a way as to avoid any inconvenience to property owners, or interference to the circulation of pedestrians or vehicles as well as to the operation of near-by installations. The excavated material shall be piled up in such a way that they enable the watering of the trees. No excavated material shall be piled up in the road crossings. It may be insisted upon by the authority to remove all the excavated materials immediately after trenching.
- b) To prevent the excavated stone and earth from falling into the trench, a strip 20cm shall be left clear between the edge of the trench and the bottom of the pile of excavated earth. This width may be increased, according to the nature of the ground and the atmospheric conditions.
- c) Wherever necessary, the contractor is required to remove the excavated material from the site and to be kept at a designated facility until the trench is to be back filled and to be brought back to the site for backfilling.
- d) When the excavated material is judged by the Engineer to be unsuitable for re-use, the Contractor shall remove it from the site as the digging of the trench proceeds and shall supply in its place suitable material approved by the Engineer-In-Charge.
- e) Contractor is required to arrange the steel plates (preferably 1.5 meters wide x 20mm thk.) to place on the excavated trench for smooth movement of traffic.

6.7.12 SIGNALLING, FENCING AND LIGHTING

- a) Each site shall be provided with an identification board mentioning the reason for the work and the names of the Company, the Contractor and the Consulting Engineer, as stipulated in the special specifications.
- b) At both ends of the trench, the Contractor shall install 2 traffic and warning signs, and Display board one immediately close to the trench and the other ahead, as required by the Engineer-In-Charge.
- c) The Contractor shall install lights and warning lights around all working areas, in accordance with the special specifications. The voltage shall conform to the safety regulations in force.
- d) The Contractor shall install barricading and lighting of all trial-holes, trench sections and other excavations.
- e) The Contractor shall provide watchmen wherever deemed necessary for the safety of the public and of the workers, in particular as regards working sites, on site material stockage, etc.

6.7.13 BARRICADING

The contractor shall provide the barricades of size 2m wide X 1.5m high of wooden/plastic/steel with necessary supports along the open trenches to protect/caution the public about the digging work without any cost to owner. The barricades shall be painted as per the requirement of authority with the owner's/Consultants/Contractor's details, job being carried out, cautions, inconvenience captions, etc. also needs to be provided.

6.8 Site visit

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

6.9 Line pipe and Coating

6.9.1 Taking over of Pipes

COMPANY shall supply bare, externally corrosion coated with 3-layer polyethylene coating and internally epoxy coated line pipes.

Contractor shall receive and take over the pipes progressively as per construction requirements at designated place of issue in presence of Company's representative. At the time of taking-over, Contractor shall perform inspection of pipes and pipe coating for all defects in the presence of Company's Representative. COMPANY shall be liable for repair defects and damage to pipe coating noticed at the time of taking over. However installation Contractor shall repair all defects to pipe and pipe coating occurring after taking over including those during transportation and handling. Rebuffing for dents (in bevels) less than 1 mm in depth shall be carried out by Contractor ahead of welding in the field at no extra cost to COMPANY. Contractor shall take-over the entire quantity of bare and coated line pipe from the designated storage yard/manufacturing plant as instructed by EIC after completion of installation works. Return of surplus line pipe material to Company's designated storage yard is in Contractor's scope including loading, transportation, unloading, handling, stacking of pipes at storage yard and getting the pipes inspected to Company's representative at storage yard.

6.9.2 Repair of Coating

CONTRACTOR using suitable material compatible with parent coating system shall carry out any repairs to 3-layer polyethylene coating. The coating repair material and procedure for application shall be submitted to COMPANY for approval prior to start of construction.

6.10 Statutory Permissions

The COMPANY shall obtain a general permission from the various authorities having jurisdiction over the area as necessary for construction of the pipeline. CONTRACTOR shall obtain the necessary permits like work permit/ excavation permit/ trench opening permit etc. for all works from the authorities having jurisdiction before the actual execution of various phases of the works and all stipulations/ conditions/ recommendations of the said authorities shall be strictly complied with at no extra cost to COMPANY. CONTRACTOR shall also obtain all necessary permissions from the concerned authorities for installation of pipeline at railways, roads, water crossings and at places where blasting is required. COMPANY may, however, assist CONTRACTOR in obtaining such permissions, wherever required, by issuing recommendation letters etc. In case of damage to other utilities/ infrastructure, Contractor shall be responsible and the required compensation as per the directions of concerned authorities/ COMPANY shall be paid by the Contractor. After completion of work, Contractor shall obtain a certificate from the concerned authorities that the job has been completed as per their requirement and the area/ land has been restored to their satisfaction.

6.11 Controlled Blasting

In case blasting is required for making of trench for laying pipeline, it shall be responsibility of the contractor to ensure safety of pipeline while carrying out blasting operations. The controlled blasting procedure shall be subject to approval of Company.

6.12 Environmental Restrictions

The following measures shall be adopted during pipeline construction in order to minimize the impact of pipeline construction activities on the environment.

- 6.12.1 While working in plantation areas, Contractor shall take due care to minimize the damage of trees. The number of trees felled shall be restricted to minimum based on working requirement for pipeline installation. In the paddy field area, Contractor shall exercise maximum care not to damage the crop outside the ROU. The compensation of damage of crop outside ROU, if any, shall be to Contractor's account. Damage to any

- =====
- obstruction, temporary/ permanent structure, boundary walls etc. within ROU shall be repaired, restored and shall be to Contractor's account.
- 6.122 During ROU clearance, the vegetation shall be cut off at ground level leaving the roots intact to the extent possible. Only stumps and roots directly over the trench shall be removed for pipeline installation.
- 6.123 Intake and discharge of water required/ used for line flushing and testing should not cause unacceptable environmental disturbance. During dewatering process, proper drainage arrangement shall be made to discharge the hydro-test water to avoid flooding of the nearby area.
- 6.124 As far as possible, the contractor shall ensure that river and stream crossings are done during dry season to avoid disturbance of breeding grounds and soil erosion. The riverbed, embankments and dykes shall be restored adequately after installation of crossings.
- 6.125 The contractor shall exercise adequate care while working, in order to avoid damage to forests and wildlife.

6.13 Pipeline through Seismic Areas

The requirements specific to safety of pipeline against seismic activity:

- a. Backfill for pipeline trench at locations where the pipeline crosses the faults should be provided with loosely compacted (unit weight $< 1.8 \text{ t/m}^3$) cohesion less soil for a distance of 1 km on both side of such crossings. The angle of friction of cohesion less soil to be used for backfilling should not be more than 25° .

In case the dug out soil of the trench is clayey in nature (undrained shear strength greater than 0.5 T/m^2), the local soil shall be replaced by engineered (cohesion less) backfill as mentioned in previous paragraph. Otherwise, the same dugout soil can be used as backfill. The recommended backfill shall be at least 600 mm thick all around the pipeline. Extra digging of trench shall be carried out to provide 600 mm cohesion less soil all around the pipeline.

- b. If the fault crossing zone, the pipeline is in rocky terrain, the following recommendation is made.

When the pipeline is to be laid on a rocky terrain, the stones/ boulder/ rock dugout from the trench should be crushed such that maximum size of stone/ boulders is limited to 20 mm. The crushed stone should be mixed with locally available soil, before using as backfill.

Alternatively, 150 mm sand padding shall be provided all around the pipeline before crushed boulders/ stones are placed over the sand padding. In this case the size of boulders can be increased up to 100 mm.

- c. A minimum gap of 100 m shall be maintained between two successive bends of the underground pipeline where the deflection angle is more than 45°. Rerouting shall be carried out in consultation with Company incase minimum gap could not be maintained.

6.14 Pipeline Burial

The pipeline shall be buried normally at a depth of 1.2 meter except **river/ rail/ road/ canal/ water crossings/ paddy fields** where cover shall be as given below or as per the requirements of statutory/ local authorities whichever is more stringent. Increased wall thickness (as indicated in alignment sheets) and cover shall be provided at critical locations and at crossings.

The pipeline, in general shall be laid underground with minimum cover as given below.

Sl. No.	Location	Minimum Cover (m)
1	Areas of agricultural, horticultural activity, limited or no human activity, industrial, commercial and residential area.	1.2
2	Rocky terrain	1.0
3	Drainage, ditches at roads/ railway crossings	1.2
4	Minor river crossings / canal / drain / nala / ditches	1.5
5	Major river crossings (below scour level)	2.5
6	River with rocky bed (below scour level)	1.5
7	Area under influence of tides	1.5
8	Cased/ uncased road crossing	1.2
9	Cased railway crossing	1.7
10	Paddy Fields	1.5

In case, any private dwelling, industrial building or place of public assembly falls within 15m of pipeline, additional cover of minimum 300 mm shall be provided over and above the cover indicated in the above table. Additional soil cover other

=====

than specified above shall be provided at locations indicated by statutory/ local authorities as per agreements between COMPANY and authorities.

6.15 Crossings

For all rails, road, canal, river & other water crossings, Contractor shall liaison with relevant authorities and intimate them well in advance about the schedule and methodology of crossing. It shall be obligatory on the part of the laying Contractor to ensure that Authorized Representative of the authority under whose jurisdiction the crossing falls should be made available at site by the Contractor at the time of making crossing. After completion of works and complete restoration of ROW, Contractor shall provide NOC from the relevant official pertaining to complete restoration to their satisfaction and certification in respect of no other damage caused to the their property outside the earmarked ROW.s

6.15.1 Railway Crossings

In case of permission by Boring: Pipeline at railway crossings shall be provided with a casing pipe. The casing pipe shall be three nominal pipe sizes larger than carrier (unless advised otherwise by concerned authorities) and shall be installed by boring/ jacking/ HDD/ ramming. Internal of Casing pipe shall be coated with two- component epoxy coating wherever required by statutory authorities. It should be noted that the extent of casing pipe generally specified by Railways is 14.0 m beyond centerline of the outermost tracks on either side or 0.6 meter beyond the ROU/ROW limits of Railways on either side, whichever is more. Carrier pipe shall be electrically insulated from the casing pipe and casing ends shall be sealed using durable, electrically non-conducting materials. The crossing drawing shall be subject to approval of concerned Railway Authorities prior to implementation. The railway crossing shall comply with the requirements of API 1102 and Indian Railways regulations. The crossing angle shall be as close to 90° as possible. Cover of casing pipe for railway crossings shall be minimum 1.7 m wherever railway track is on embankment. Care shall be taken to isolate the pipeline crossing installation from aerial electrical wires and shall be suitably insulated from underground conduits carrying electrical wires. The casing pipe shall be provided with minimum 50 mm diameter vent pipe. Casing vent pipe shall be at least 1.2 m away vertically from aerial electrical wires and shall be suitably insulated from underground conduits carrying electrical wires on railway land. Casing pipe should be so placed and oriented so as to prevent any leakage inside railway boundary except through the vent pipes. The casing pipes shall be installed with even bearing throughout the length.

=====

In case of permission by HDD: If railway authority grants permission for crossing of railway by HDD method, pipeline shall be laid at least 7 m below the ground level throughout the railway land width embankment and also at least 7m below formation level in cutting throughout land width

Further, as per railway Guideline on Pipeline Crossing under Railway track, in case of pipelines carrying gas, Railway operations should be considered equivalent to Location Class 4 for design of carrier pipe thickness. Design factor of 0.4 shall be used for calculating wall thickness of carrier pipes within railway land and up to a distance of risk radius outside the railway boundary (ROU/ROW) on either side

6.15.2 Road Crossings

- i. The method of crossing of roads such as open cut/ trench-less shall be firmed up by CONTRACTOR in consultation with concerned authorities and COMPANY. The CONTRACTOR shall also take due care to identify and take due precautions so as not to disturb or damage the utilities like cables, water lines and other structures.
- ii. After laying the pipeline in a road crossing by open cut method, the CONTRACTOR shall completely restore the road to its original condition
- iii. While laying the pipeline in road crossings by open cut method the CONTRACTOR should ensure that the traffic is not stopped during the execution of work. This may be done by cutting half of the road at a time so as to enable the traffic to pass on the remaining half of the road. Alternatively, the CONTRACTOR can provide diversion roads to maintain the flow of traffic. For NH crossings, traffic of both sides shall not be disturbed.
- iv. The CONTRACTOR shall provide proper caution boards during daytime and danger lights during night time when the cutting operation of the road is going on. For cased crossings, the pipeline should be taken through the casing pipe, the top of which should be at least 1.2 meters below the road top as specified or as per the requirements of the local authorities, whichever is higher. Casing pipe shall extend min. 600 mm beyond Road ROU/ROW on either side. The casing pipe shall be installed by trenchless method like boring/ jacking/ HDD. The casing pipe shall be three nominal pipe sizes larger than carrier pipe. The crossing angle shall

=====

be as close to 90° as possible. Casing insulators and end seals shall be provided to ensure electrical isolation of carrier pipe and casing pipe.

- v. For National Highways/ state highways, crossing shall not be too near the existing structure on the NH maintaining a minimum distance of 15 meters or as specified by Highway Authority.
- vi. The National Highway crust shall be built to the same strength as the existing crust on either side of the trench or to thickness and specification stipulated by Highway Authority. Care shall be taken to avoid the formation of a dip at the trench.

6.15.3 Existing Pipeline Crossing

The specific requirements of Owner / operator of existing pipeline shall generally be followed. The minimum clearance between the lines shall be 500 mm below existing pipeline unless specified otherwise.

6.16 Pipeline in Forest Areas

- a. Contractor shall restrict the pipeline laying activities within the ROU acquired. No additional land in forest area shall be used. Contractor shall clear only the minimum width required for laying of pipeline. Number of trees/ plants felled shall be kept a minimum based on construction requirements. ROU width in forest area is 10 m. or less.
- b. Full care shall be taken to ensure that no damage is caused to the adjoining forest area while carrying out the work. However, in case of any damage, Contractor shall be liable to pay suitable compensation as per requirements of Forest Department.

6.17 Installation of Conduits for Optical Fibre Cable at Crossings

At all crossing locations (viz., rail, road, canal and minor water course crossings) the optical fibre cable shall be installed inside a HDPE Telecom Duct to be installed by the CONTRACTOR.

At all such crossings where the carrier pipe is installed by open-cut of the facility crossed, HDPE conduit shall be installed along with the pipeline for installation of the Optical Fibre Cable. At river crossings where anti buoyancy measures are provided for the carrier pipe, HDPE conduit shall be placed inside a CS casing pipe and shall be strapped to the mainline at 5m interval using high strength PE straps. Net specific gravity of pipe in empty condition should not be less than 1.2.

In any case, OFC conduit shall not be installed in casing of carrier pipe.

6.18 Hydrostatic Testing

6.18.1 Pipelines

Hydrostatic testing of mainline shall exclude valves at terminals, SVs and facilities that are to be installed as a part of the scrapper stations. Temporary test headers shall be provided and the mainline shall be hydrostatically tested between the temporary test headers only.

The highest point of the test section shall be subjected to the minimum test pressure as specified below. The minimum hydrostatic test pressure in the pipeline during testing shall be as follows:

1.5 times Design Pressure

The maximum hydrostatic pressure shall not however exceed the pressure required to produce hoop stress equal to **95% of SMYS** of pipe material based on the minimum wall thickness in the test section. The test duration shall be **24 hrs.** Hydro test shall be done with corrosion inhibitor, wherever required. Mainline valves shall be installed after successful completion of hydrostatic pressure testing.

Station piping to be tested hydrostatically for **minimum 6 hours at pressure of 1.5 times Design Pressure.**

The pipeline string of HDD crossing shall be pre-tested for **min. 6 hours and post- installation testing for min. 24 hours at 1.5 times the design pressure.**

The pipeline string of 500 m. and above shall be hydrotested (post-installation) as per mainline hydrotesting procedure.

Control and instrumentation piping, actuators to be tested by Dry air or nitrogen at pressure of $1.1 \times \text{MOP}$ (design pressure), test time– soaping time

Subsequent to separate hydro testing of pipeline and associated facilities, the Contractor shall carry out tie-in/ hook up. Pipes/ prefabricated assembly used for such tie-in shall be pre-tested to a test pressure specified for the pipeline. The Contractor at no extra cost shall provide all materials required for the fabrication of the test headers to Company. After successful completion of hydrostatic testing, the Contractor shall de water the pipeline as per the directions of Engineer-in-charge.

For HDD, Pre-hydrotest, Post-hydrotest and pipeline final hydrotest, contractor has to arrange soft water in view of alkalinity/ Salinity in the river water.

6.18.2 Dewatering and Swabbing

It is envisaged that dewatering and swabbing operations shall be carried out as a part of pre-commissioning activities. Contractor shall take up dewatering of pipeline after hydrostatic testing only when Contractor is ready for swabbing operations. Till such time Contractor is ready to start pre-commissioning activities, the pipeline/ section of pipeline after hydrostatic testing shall be left filled with inhibited water. In case, if contractor proposes to dewater any test section for any reason depending upon site conditions (e.g. using test water for adjoining section due to nonavailability of water), the Contractor shall swab such sections as per applicable requirements of Contract and fill the section with nitrogen at a pressure of 2 bar (g) with residual content of oxygen less than 1% v/v at no extra cost to the company.

In no case shall the pipeline be kept empty i.e. without nitrogen filling.

Transfer of test water from one test section to another section may be considered, however dosing additional quantity of corrosion inhibitor shall be done.

Disposal of water (hydro testing) shall be done by Contractor after seeking necessary permission from concerned authority/ land owner so that no liability on this account comes on COMPANY.

6.18.3 Corrosion Inhibitor (Wherever applicable)

The products to be used for corrosion inhibition of the water used for hydro testing and their dosage shall be as specified in Hydro test specification.

Contractor (not the inhibitor manufacturer) shall get the inhibitor tested for corrosion inhibition and microbiological control efficiency from competent Govt/ PSU Laboratory. The test report shall be submitted to COMPANY for approval prior to undertaking hydro testing works.

The dosage as recommended by COMPANY shall only be adopted.

Necessary records for dosing of inhibitor should be maintained by the laying Contractor and such records should be handed over to COMPANY.

6.18.4 Terminal Facilities

Piping facilities between the insulating joint and hook up point/ battery limit, sectionalizing valve stations and all above ground facilities installed by Contractor shall be hydrostatically tested to a test pressure equivalent to **1.5 times design pressure** as per "Flushing and Testing of Piping System" enclosed with the Contract document. All valves in the piping network being hydro

=====

tested shall be kept in the crack open position. Holding time shall be minimum **six hours**.

6.18.5 **Preservation**

The positive pressure shall be maintained at 2 bar (g) in the pipeline during preservation. The necessary arrangements like valves, fittings, manpower etc. shall be kept for maintenance of pressure in the pipeline during idle time.

6.19 **Direction of Construction**

The direction of construction shall be in the direction of flow, unless specified otherwise. In case the contractor proposes to carry out construction in direction opposite to direction of flow, the contractor may do so at no extra time and cost to Company and subject to Company Approval.

6.20 **Leak Detection**

CONTRACTOR shall submit a detailed procedure for leak detection during hydrotest. Such method of detection shall consume minimum possible time to complete the hydrotest activity within specified period. This procedure needs approval of the Engineer-in-charge.

All works for locating and repair of major leak/ burst attributable to COMPANY (occurred during hydrostatic testing) including necessary repairing/ replacing/ cutting and removing out defective pipe length as defined in the specification and shall be payable as per relevant items of schedule of rates.

All works for locating and repair of minor leak attributable to COMPANY (occurred during hydrostatic testing) which require sectionalizing of pipeline shall be payable as per relevant items of schedule of rates.

Contractor shall carry out repairing/ replacing of defective pipe length including cutting and removing of defective pipes, pre testing of replacement pipe for 24 hours and welding into main line, NDT of the welds, coating of the weld joints, clean up, re-testing of pipeline including providing all equipments, manpower & consumables.

6.21 **Magnetic Cleaning, Caliper Pigging**

The individual contractor shall carry out magnetic cleaning and caliper pigging of the pipeline system being installed by him. Contractor shall engage a specialized agency that have previously carried out such operations (magnetic cleaning and caliper pigging) and shall develop procedures, supervise and monitor the entire operations, coordinate with other Contractor(s) as required. Rectification of defects observed during caliper pig run, shall be carried out by individual section/part contractor including digging, cutting, replacement, repair, welding, NDT etc.

=====

6.22 **Pre-Commissioning and Commissioning assistance of Pipeline**

Pipeline Contractor shall be responsible for pre-commissioning and commissioning assistance of the pipeline system being installed by him. The above shall include P&ID checks (with respect to requirement of design/ operation/ safety and interlocks of latest revision of P&IDs), flushing, tightness test, de-watering, as required and supply of consumables required during pre-commissioning and commissioning assistance. Contractor shall supply manpower, materials, equipment including consumables along with necessary piping and instrumentation connections for monitoring flow rate, pressure, temperature etc. temporary venting along with necessary piping, valves and instrumentation as well as consumables.

6.23 **Commissioning**

Contractors shall mobilize all equipment, consumables and manpower for carrying out pigging, drying, inertization and commissioning activities.

Whenever required, contractors shall provide commissioning assistance to other section/part contractor.

Contractors shall engage a specialized team/ agency who have previously carried out such operations and shall develop procedures, supervise and monitor the entire operations, coordinate with other Contractor(s) as required till the time commissioning operations are completed. Contractor shall mobilize all equipment, materials, consumables including pigs, nitrogen and manpower etc. for commissioning activities. All necessary piping connection as required shall be carried out.

Commissioning activities shall be carried out as per applicable specifications enclosed with Contract.

6.24 **Priorities**

COMPANY may, at its sole option, assign priority of construction to any part of the total pipeline or terminal works. Contractor shall comply with such priority of execution without any time and cost implication to the COMPANY.

6.25 **Terminal Piping Works**

The construction work shall be carried out based on Issued for Construction (IFC) drawings issued to Contractor at the time of construction. The final IFC drawings issued during execution stage may vary to some extent from the drawings included in the Bid Package. CONTRACTOR shall carry out all works in accordance with the IFC drawings and reference specifications/ documents with the Contract at no extra cost to the COMPANY.

=====

The piping fabrication, erection, welding, flushing and hydro testing and painting works shall be carried out as per standard piping specifications enclosed with Contract. The hydro test duration shall be minimum 6 hours.

6.26 Technical Requirement

The technical requirements for the pipeline laying as well as terminal works as defined herein shall be read in conjunction with Schedule of Rates, specifications, standards, drawings and other applicable documents enclosed with the Bid document. All piping/pipeline works shall be carried out as per following:

- a) Piping and Instrumentation Diagram (P&IDs) and line schedule.
- b) Approved for construction Piping General Arrangement Drawing (GADs).
- c) Approved for construction Alignment sheets/crossing drawings.
- d) Piping Material Specifications.
- e) Specifications.
- f) Piping support standards/drawings and support index.

7.0 AS BUILT DOCUMENTS

Contractor shall prepare all documents as per the requirements indicated in Specification for Documentation for Pipeline Construction enclosed with the Contract document. In addition to the hard copy, three copies of final documents shall also be submitted in electronic media i.e. CD ROM/ DVD ROM diskettes and USB drive.

Software used for the presentation of these documents shall be as follows:

Type of document Software

- a) Reports MS Office (Word / Excel)
- b) Drawings AutoCAD

For the purpose of preparation of as-built drawings, Contractor shall update the "Issued for Construction" drawings provided by the Company. For drawings where electronic copies are available for IFC drawings, Contractor shall provide as built drawings in electronic form as well as in hard copies. Where only hard copies are available for IFC drawings, Contractor shall prepare and submit as built drawings in hard copies.

8.0 DOCUMENTS TO BE SUBMITTED AT THE TIME OF BIDDING

No technical documents are required to be submitted at the time of bidding. Bidder is advised to comply with all requirements of Bid document without any deviation. Company reserves the right to reject any bid with deviation without making any reference to the Bidder.

9.0 DOCUMENTS, SPECIFICATION, STANDARDS AND DRAWINGS AND ADDITIONAL CLAUSES

- 9.1 Owner shall furnish piping and Instrumentation diagrams (P & I D), preliminary plot plan along with the tender. Owner shall also supply design & engineering drawings and construction drawings including general arrangement drawings for piping, mechanical & instrumentation systems and other related/ required systems, at appropriate times and as requisitioned by contractor in his time schedule.
- 9.2 Contractor shall prepare isometric drawings & bill of materials and submit the same for Owner/ Consultant's approval/ record. Contractor shall prepare drawing for utilities line as required as per SOR and submit the same for Owner's record.
- 9.3 No construction small or big shall be carried out without proper construction drawings duly approved by Owner's Engineers at site office or Owner's representative duly authorized to do so.
- 9.4 For Mainline, route survey alignment sheets and crossing survey details shall be furnished along with bid by Owner. However, detail-crossing drawings with crossing methodology shall be submitted by Contractor for prior approval. Any additional survey and data required to complete above should be done by Contractor without any extra cost.
- 9.5 After completion of construction & commissioning of Terminal, 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 Mainline pipeline alignment sheet, all X-ing details, all CP drawings, pipe book etc. and for Terminals P&ID, layout drg., piping GAD, Isometric, all electrical & instrumentation drawing, all civil drawings. For final submission only 4 sets of documents plus the original transparencies 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 along with hard copy. Soft copy of all as-built drawings shall be also submitted in AutoCAD. Videography/ photograph of all major activities/ milestone achieved shall also be arranged and submitted by the Contractor. For details of documentation to be submitted for mainline and terminal refer enclosed specification for documentation for pipeline construction Specification enclosed elsewhere with the tender.
- 9.6 **Specifications**
- The work shall be carried out by CONTRACTOR strictly in accordance with the specifications enclosed elsewhere with the tender.

9.7 Following amendments to Specifications shall be taken into account:

9.7.1 SPECIFICATION FOR FIELD JOINT COATING

(Onshore Pipelines)

Sl. No.	Clause No.	Amendment
1.	3.3.2 (b) – Functional Properties of field joint coating system	Peel Strength- To Pipe surface and to factory coating at Tmax.(N/mm) shall be read as <u>1.0 N/mm</u> instead of 0.3 N/mm.
2.	4.2.3--- Application of heat shrink wrap around sleeve	Upon pre-heating the pipe surface shall be applied with two pack epoxy primer of wet film thickness 200 microns or as per manufacturer's recommendation..... Once per shift.

9.7.2 SPECIFICATION FOR CASING INSULATORS AND END SEALS

1. Clause No. 3.0 (Design- 1st para) shall be read as:

"Casing insulator shall be made of HDPE, modular type, offering a high impact strength and low coefficient of friction. Each casing insulator element shall represent a flexible section containing a toothed male butt strap at one end and an appropriately toothed female slot on the other end. No metallic parts or attachments should be considered in the casing insulator element assembly. The design of casing insulator should allow for onsite adjustments for any variances within the allowable O.D. range of pipeline and should grip the pipe firmly without any chances of horizontal movement or breakage of the insulator rings during installation. The insulator rings should be fastened onto the carrier pipe with the appropriate tool to be provided by the casing insulator manufacturer."

2. Clause No.4.0 (Material) shall be read as:

The Casing insulator Material should meet the following specifications:

Description	Value	Standard
Yield strength	>22 N/mm ²	UNI EN ISO 527-2
Tensile strength	>16 N/mm ²	UNI EN ISO 527-2
Elongation at break	>400%	UNI EN ISO 527-2
Hardness shore D	64	ASTM D 2240
Dielectric strength	>37 kV/mm	
UVL stabilization	good	
MVTR (Moisture Vapor Transmission Rate)	very low	

Description	Value	Standard
Density @ 23°C	960 kg/m ³	ISO 1183/A
Melting point	136°C	ISO 11357-3

In case of any conflict between the requirements for casing insulator as mentioned above and technical specification enclosed elsewhere in the bid document, the requirements mentioned above shall supersede.

9.7.3 SPECIFICATION FOR WELDING OF ONSHORE GAS PIPELINES

(Specification No: MEC/S/05/21/02), **ANNEXURE-VIII**, Sheet 1 of 1

COMPARISON OF FILMS FROM DIFFERENT MANUFACTURERS shall be read as:

CEN Classification	KODAK	AGFA	FUJI
---	CX	D8	---
C5	AA400	D7	IX 100
C4	T200	D7	IX80
C3	MX125	D4	IX50
C2	M100	D3	---
CI	DR50	D2	IX25
---	SR**	---	---

****-** *Special films, extremely fine grain and very high resolution*

Note: For X-Ray, Agfa D7/ Kodak T200/Fuji IX80 or equivalent film shall be used.

For Gamma Ray, AgfaD4/ Kodak MX125/ Fuji IX50 or equivalent film shall be used.

9.8 ADDITIONAL CLAUSES

981 Contractor to note that the minimum requirements of inspection and testing of the bought-out items shall be governed by attached QAP with the tender document. However, contractor shall submit their QAP in line with the requirement specified in attached QAP for Owner's approval.

982 Contractor to note that all the documents/drawings submitted by them as a part of bid shall be considered only to assess Bidder's technical capability and shall in no way absolve them from complying with all the requirements of the Tender. All works to be performed by the Bidder shall be strictly in accordance with tender conditions.

Contractor shall submit duly signed & stamped hard copies of all required documents/ drawings/ data sheets etc to IGGL for their review & approval as per terms & condition of tender documents. The date of receipt of these documents/ drawings/ data sheets etc at PMC shall be deemed as the date of submission. If any documents/ drawings/ data sheets etc require re-submission due to any error/ deficiency noticed during review/ approval stage, in that event the additional time required by the contractor to get the revised document/ drawing

=====

reviewed/approved by IGGL/PMC shall be solely to contractor's account and in no case contractor shall be entitled for any time or cost benefit.

- 9.8.3 The drawings/documents/ data sheets etc shall be reviewed, checked, approved and duly signed/stamped by successful contractor before submission. Revision number shall be changed and revisions shall be highlighted by clouds during submission of revised documents/drawings/data sheets by the successful contractor. Whenever the successful contractor require any sub-supplier drawings to be reviewed/approved by IGGL, the same shall be submitted by the contractor after review/ approval and stamped by the Contractor. Direct submission of the sub-supplier's drawings/documents/data sheets etc without contractor's approval shall not be entertained.
- 9.8.4 Review/Approval of the contractor's submitted drawings/ documents/ data sheets etc by Owner / PMC would be only to review the compatibility with basic design and concepts including mainline work procedure and in no way absolve the successful contractor of his responsibility/contractual obligation to comply with tender requirements, applicable codes, specifications and statutory rules/regulations. Any error/deficiency noticed during any stage of manufacturing/execution/installation shall be promptly corrected by the contractor without any extra cost or time, whether or not comments on the same were received from Owner / PMC during the drawing review stage.
- 9.8.5 During construction, Owner / PMC, on their discretion, have reserve right to take samples for any bought-out item received at site and test the same in a NABL approved or equivalent laboratory even if the lot has already been inspected and cleared by PMC / Owner for use in construction. The cost for such testing shall be borne by the Contractor. In case of failure of the samples, the lot shall be rejected and the same shall be replaced by the Contractor without any additional cost to Owner.

=====

Technical Specifications

INSTRUMENTATION WORKS

1. Installation of TIC Panel

Scope of Work

- a) Supply of Panel (Wall Mounted, cubicle type) along with all accessories like Lamps, MCBs, Switch Sockets, etc.
- b) Quantities of panel accessories shall be as per the Technical Requirements during drawing approval/detail engineering.

PANEL CONSTRUCTION

1. Type : Self-supported, Wall Mounted, enclosed cubicle and Non-raphic.
2. Lighting : Required for inside panel with door switch on each side of door
3. Ventilation : Required with louvers backed by wire fly screen & fan. Fan Failure alarm required.
4. Doors : Perforated CRCA door in the front of the Panel with locking arrangement. Doors shall be provided with Ergofoam type Lock (3 point lock) or similar with key and handle
5. Door width : Shall suit width of the panel. Panel width is indicative only. The sizes shall be sufficient to accommodate the required hardware specified in PJS.
6. Cable Entry : Bottom, Cable Glands shall be double compression type for external armoured cables. All unused entries shall be plugged.
7. Receptacles : Required for incomer supply.
8. Painting : The finish shall include sand blasting, grinding, chemical cleaning, surface finishing by suitable filter and two coats of high grade lacquer with wet sanding between coats. Two coats of paint in panel colour shall be given for Non-glossy high stain finish. Panel face final colour shall be of the following:
 - a) Siemens Grey (RAL 7035)
 - b) Panel internal shall have a finish color of pale cream – IS 352
9. Wheel : To be provided with Lockable arrangement
10. Tag Plates : Name Plates : Laptop Tray : Front of Panel Instrument
Tag plates shall be black laminated plastic with white core.
11. Name plates shall be black laminated plastic with white core. It shall include project details. It shall be provided on Front/ Right Side of Panel.

- =====
12. Laptop Tray: Not Required
 13. Dimensions & Metal of Construction
 - a. Panel dimension : 1200 (mm) H x 800 min.(mm) W x 450 min. (mm) D
 - b. Control Panel : 2 mm thick CRCA steel
 - c. Side & Top Plates : 1.5 mm thick CRCA steel
 - d. Door Panel : Front and rear doors.
 - e. Cable gland plate : 3 mm thick CRCA steel
 - f. Anchor Bolt Size : By vendor
 - g. Lifting Eye Bolt : Required
 - h. Laptop Tray : NA

Note:

- 1. The Dimensions of panel indicated are minimum. If more height , width or depth is required to fit all the components in the panel as per the requirement, the same shall be provided without any extra cost.**
- 2. The panel dimensions shall be finalized during detail engineering.**

14. WIRING

- a. WIRING Type : General purpose, Intrinsically safe
- b. Wiring details 230 VAC Wiring : 3C x 4.0 mm² copper conductor
- c. Signal Wiring

External to Cabinet : 1.5 mm² twin twisted individual shielded overall shielded with overall drain PVC insulated armoured

Inside the Cabinet : Multi stranded min. 1.5 mm² copper conductor PVC insulated twin twisted and shielded.

Electrical Earth : Multi stranded min. 6.0 mm² copper conductor PVC insulated

Instrument Earth : Multi stranded min. 4.0 mm² copper conductor PVC insulated

=====

- d. Terminal type : Screw clamp type (with fuse) with Pressure Plate Terminal
size for signal : Suitable for min. 2.5 mm² size conductor Terminal size for
power dist. : Suitable for min. 6.0 mm² size conductor and higher as per
actual cable sizes.

- e. Wiring Colour Code

Power Supply (230V AC) : Hot – Red, Neutral - Black, Earth – Green

Power Supply (24V DC) : Positive – Red, Negative – Black

Alarm System : Yellow, White

Control & shutdown : Grey, White

Analog signals (IS) : Light blue, White

Electrical Earth : Solid Green

Instrument Earth : Yellow Green

Identification of Cable : Criss – Crossing PVC tube ferruling. Solid Green

- f. Power Indication Lamps : 230VAC UPS – Red color, 230VAC
NUPS – Red Color 24VDC – Green Color

SPECIFICATIONS FOR ACCESSORIES

1. MCB

Make : As per Vendor List

Qty. : As required + 20% spare

2. Lamps

Type : LED Clustered Type

Voltage : 230V AC UPS, 230V AC Non-UPS, 24
VDC

Make / Model No. : As per Vendor list

Quantity : As required + 20% spare

3. Relays

Type : Plug in relays

Contact Type : Potential free contact

Contact No. : 4 NO. + 4 NC

Rating : 24V DC, 5.0 A

Make / Model No. : As per vendor list.

Quantity: As required + 20% spare

=====

4. SMPS with MOSFET O ring

Make : As per Vendor List

Qty : Redundant with MOSFET O ring

5. Space Heater

Make : KEC/ equivalent

Rating : 60W, 230V AC with Thermostat

6. Digital Indicator

Make: Vendor to Provide

Quantity : 2 Nos (1 for Pressure Transmitter and 1 spare)

SPECIFICATION FOR SIGNAL DISTRIBUTION CARDS

1. TYPE: DUAL OUTPUT CURRENT ISOLATOR
2. INPUT: 4-20 mA D.C
3. OUTPUT: TWO NOS. 4-20 mA ISOLATED OUTPUTS AS MINIMUM
4. ISOLATION: BETWEEN INPUT & OUTPUT, BETWEEN INPUT & OUTPUT
WITH POWER SUPPLY, BETWEEN OUTPUT & OUTPUT
5. ACCURACY: $\pm 0.1\%$
6. POWER SUPPLY: 24 V D.C
7. TRANSMITTER POWER SUPPLY: 24 V D.C
8. OUTPUT LOAD DRIVING CAPACITY: 600 Ohms MINIMUM FOR EACH
OUTPUT
9. MOUNTING: DIN RAIL (BACK OF THE PANEL)
10. MAKE: MTL / P&F
11. MODEL NO: *

=====

ANNEXURES TO SCC

CONTENTS

Annexure-1 : Scope of Work

Annexure-2 : Scope of Supply

Annexure-3 : Completion Schedule

Annexure-4 : Measurement of Work

Annexure-5 : Terms of Payment

Annexure-6 : Conditions for Issue & Reconciliation of Material

=====

SCOPE OF WORK
(ANNEXURE-1 TO SPECIAL CONDITIONS OF CONTRACT)

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.

- **The Work shall be awarded on rate contract basis. Separate intimation / firm order shall be given at later date as per the requirement of IGGL for any pipeline section or for any length of pipeline section based on this rate contract.**
- **There shall be no liability or guarantee on part of IGGL to execute any work under this rate contract. No Compensation shall be paid if IGGL does not operate any work under this contract or less work.**
- **The quantities mentioned in SOR are indicative only and are subject to change as per site conditions / Release Order. IGGL can execute any quantity of any SOR item subject to overall limit of contract price. Bidders to quote accordingly.**
- **Separate intimations / firm orders can be given any number of times during the duration of this rate contract and prices shall be firm for the entire duration of the contract. Bidders to quote % above or below the rates mentioned in SOR.**
- **IGGL may execute any work and for any quantity but limited to overall rate contract value. Work shall be executed at different locations located in any state of North Eastern part of India. Release Order shall be awarded in a staggered manner as per actual requirement of IGGL. Bidders may quote accordingly as there may be multiple mobilization and demobilization as per the requirement of IGGL.**

=====

SCOPE OF SUPPLY

(ANNEXURE-2 TO SPECIAL CONDITIONS OF CONTRACT)

1.0 SCOPE OF SUPPLY

1.1 Owner's Scope of Supply

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.

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

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 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 the Owner.

1.3 Designated Areas for return of surplus material

Surplus material after execution of work shall be returned back to: **Will be intimated to Contractor in due time.**

=====

COMPLETION SCHEDULE
(ANNEXURE-3 TO SPECIAL CONDITIONS OF CONTRACT)

COMPLETION SCHEDULE
06 (six) Months from the date of Release Order. Release Order can be given at any time within 3 years from the date of FOA.

Notes:

1. The time for completion is applicable for any part, more than one part, or all the parts. The work for each part shall commence concurrently.
2. The completion schedule as mentioned above is for the total scope of work.
3. Mechanical completion shall mean completion of all works related to buried pipeline system, aboveground terminal/station piping works and associated works including EGP, pre-commissioning and making the system ready to start commissioning activities.
4. Completion of all balance associated works shall mean all works related to Civil, Architectural, Structural, Electrical, Instrumentation and Telecommunication in all respects and commissioning assistance during commissioning.
5. Commissioning shall mean activities including final drying, filling the nitrogen (if required), commissioning with gas, testing of golden tie-ins, and acceptance of final dossier. It also includes all works related to Civil, Structural, Instrumentation and Telecommunication.

=====

MEASUREMENT OF WORK
(ANNEXURE-4 TO SPECIAL CONDITIONS OF CONTRACT)

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 Engineer-in-charge. Measurement shall be based on "Approved for Construction" drawings, to be the extent that the work conforms to the drawings and details are adequate.
- 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 or 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 (Metre)
- iii) Number : No.
- iv) Volume : Cu.M
- v) Area : Sq.M

- =====
- 1.9 All measurements shall be in metric system. All the works in progress will be jointly measured by the representative of the Engineer-in-charge and the contractor's authorized agent progressively. Such measurements will be either recorded/typed by the contractor in the numbered measurement sheets to be supplied by Engineer-in- Charge /Owner or computerized by Contractor themselves. The measurements shall be signed in token of acceptance by the contractor or his authorized representative. The Contractor shall submit the bill in the approved performa in triplicate to the Engineer-In-Charge of work.
- 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 specials, fittings, mitre bends etc, but excluding all types of valves. Length of valves shall be excluded from piping measurement and shall be considered on number basis.
- 2.2 All Socket weld fittings & hot/cold bends, reducers etc. for size $1\frac{1}{2}$ " and below shall be fabricated and erected as per requirements by the contractor at no additional cost and his rates for piping of size $1\frac{1}{2}$ " and below shall be inclusive of this work.
- 2.3 Vents and drains shall be measured from O.D. of pipe lines and shall be paid for at the corresponding unit rates for similar sizes of pipe, Other piping attachment such as couplings, earthing lugs etc. shall be supplied & erected by the contractor within his quoted rates for piping.
- 2.4 Fabrication of spool pieces for temporary use to aid Contractor's work such as fabrication, erection, flushing and testing of piping etc, shall be done by Contractor as part of piping work and no separate payment shall be made for this.
- 2.5 In case of branch piping, the measurement shall be made from outer surface of the main line except in case of equal size branches, in which case measurement shall be made from centre line of the branching header.
- 2.6 Erection of Valves
- Erection of all types of valves such as gate/ globe / check / plug / needle/ ball / control/ safety valves etc, will be paid on number basis at the rates given separately in the Schedule of Rates, Any dismantling and re-erection of the valves required for the purpose of testing, calibration etc. will be carried out by the contractor within his quoted rates.
- 2.7 Fabrication of Supports
- Fabrication of all types of pipe supports, provided as per drawings & instructions of the Engineer-in-Charge, will be paid on weight basis, Bolts, nuts and washers including U-bolt will be supplied by contractor, Weight of bolts, nuts and clamps etc. shall not be added to the weight of pipe support for payment purpose.

- =====
- Erection of all types of supports, spring supports and turn buckles, including grouting of supports, if required, shall be carried out by the Contractor as part of piping work and no separate payment will be made for it.
 - While fabricating the supporting elements, the contractor will ensure that the dimensions shown in the drawings match with site conditions. No payment shall be made for rectification arising out of discrepancies in dimensions of the fabricated items of supporting elements due to site conditions.
 - Additional supports as necessary with the site condition shall be fabricated and erected in accordance with the standard engineering practices and instructions of Engineer-in-Charge.

3.0 RADIOGRAPHY / DYE-PENETRANT EXAMINATIONS / MAGNETIC PARTICLE TEST (MPT)

Payment for radiography shall be made on the basis of circumferential joints for different pipe dia. Repeat radiography due to defective films or on repaired joint due to Contractor's fault or for additional radiography necessitated due to poor performance of Contractor's welder will be done at Contractor's cost.

4.0 STRUCTURAL STEEL WORK

- 4.1 Payment for steel work shall be made on basis of admissible weight of the structure accepted, the weight being determined as described below.
- 4.2 The weight for payment will be assessed from the approved fabrication drawings and the respective bill of materials prepared by the contractor and approved by the Engineer-in-Charge. The weight of structural material/ Plate shall be calculated wherever necessary on the basis of IS Hand Book. If spreads are different from IS spreads, then Manufacturer Hand Book shall be referred to.
- 4.3 Spreads built out of plates/structural shall be paid on the actual weight incorporated except for gussets which will be paid on the weight of the smallest rectangle enclosing the shape.
- 4.4 Gratings shall be paid on the basis of calculated weights as determined from the dimensions given on the design drawings/ bill of materials, Full deduction shall be made for all opening above 300 mm size and skews.
- 4.5 Welds, bolts, nuts, washers etc, shall not be measured, Rate of structural steel work shall be deemed to include the same.
- 4.6 No other payment either for temporary works or for any other item such as welds, shims, packing plates etc., shall be made. Such items shall be deemed to have been included in the rate quoted for steel work.

5.0 ELECTRICAL WORKS

5.1 Cables

The measurement for cable laying shall be made on the basis of length actually laid from lug to lug including that of loops provided and paid accordingly.

5.2 The weights mentioned in the drawing or shipping list shall be the basis for payment. If mountings are sent separately (for panels etc.) to facilitate transportation then erection weight shall be inclusive of all mountings, For structural steel measurements/payment shall be made as per finished items.

6.0 INSTRUMENTATION WORKS

6.1 Measurement of primary piping/ tubing between piping or equipment on one side and the instrument on the other side will be from the first break flange or tubing fitting up to the first block valve of fabricated instrument manifold or up to first tee of instrument manifold for Integral type manifolds, All piping / fittings at the first block valve or the piping / equipment side up to break flange or tubing fittings shall be excluded. Any valve manifold tubing forming part of manifold or drain connection for instruments up to 1.5 meters individually or each drain connection shall be excluded.

6.2 Air lines and any other utility lines will be measured from end to end Including valves and pipe fittings.

6.3 Copper tube measurement will be taken between the two fittings of the copper tube.

6.4 Direct mounted instrument and instruments mounted on support shall be accounted in terms of the quantity in numbers.

6.5 Multicore cables/multi-tubes will be measured between the junction box and Its termination inside the control room".

6.6 Two/Three core cables shall be measured between two end terminals.

6.7 No separate payment will be made for receiving, handling and transportation of owner issued materials from owners / MECON storage points to contractors store/workshop and the same are deemed to be included in the unit rates for the respective item of work.

6.8 Erection Weights

The weights mentioned in the drawings or shipping list shall be the basis of payment. If mountings are sent separately (for panel etc.) to facilitate transportation, then erection weight shall be inclusive of all such mountings. For structural steel. measurements / payment shall be made as per finished Items.

7.0 PAINTING ON EQUIPMENTS/PIPING/STRUCTURAL STEEL ETC.

a) EQUIPMENTS

- i) For columns, vessels, reactors, Exchangers, furnaces, ejectors etc., measurement shall be on square meter basis taken over the painted surface.
- ii) For pumps, motors and compressors measurement shall be made on number basis.

b) PAINTING ON PIPING INCLUDING SPECIALS AND FITTINGS

- i) Payment will be made on linear measurement in 'Meters' corrected to the nearest centimeter.
- ii) Piping shall be measured along the centre line through all types of fittings and flanges.
- iii) Rates for painting of pipes shall be inclusive of painting of all types of pipe supports, flanges, guides, shoes, saddles, clamps, etc, and also all types of fittings except valves (2" and above) which shall be paid separately on number basis.
- iv) There will be no separate measurements of the colour bands/ identification signs (line numbering), flow direction etc. on un-insulated piping, the rates of painting of linear length of piping shall be inclusive of cost of such items.

c) PAINTING ON STEEL STRUCTURE

- i) Payment for steel structures shall be made on the basis of admissible weight of the painted structure.
- ii) Welds, bolts, nuts, washers etc. shall not be measured and rates for painting of structure shall be inclusive of painting such items.

=====

TERMS OF PAYMENT
(ANNEXURE-5 TO SPECIAL CONDITIONS OF CONTRACT)

TERMS OF PAYMENT

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 fortnightly 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, 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. Owner will release payment through e-payments only as detailed in the bidding document.

1.0 MAINLINE WORKS

1.1 Pipeline Laying with Associated Works

S. No.	Milestone	Payment
1.1.1	Completion of site development, stacking, clearing and grading of ROU	10% progressively
1.1.2	Completion of fabrication, alignment, stringing, field welding, NDT (radiography)	30% progressively
1.1.3	Completion of bending, joint coating, trenching & lowering	20% progressively
1.1.4	Completion of tie-ins, tie-in NDT, tie-in joint coating HDPE duct laying and backfilling	10% progressively
1.1.5	Completion of Hydro testing	8% progressively
1.1.6	Completion of dewatering, swabbing	3% progressively
1.1.7	Completion of magnetic cleaning and electronic geometry pigging	4% progressively
1.1.8	Completion of OFC blowing, restoration and obtaining NOC	5%

	from respective land owner/ farmers and statutory progressively authorities as required	progressively
1.1.9	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%

The above payment shall be made subject to the following:

- i) The stage payment of 10% as per sub-clause 1.1.4 above will be released on completion of continuous stretch of min. 4 km. However, depending on site conditions, EIC may authorize to release payment for execution of non-continuous stretches.
- ii) For discontinuity on account of major crossings specified in SOR, crossing length shall not be taken into account for (i) above for payment purposes. The payment towards such crossings shall be made on the basis of item rate in SOR.
- iii) Payment terms for HDPE duct laying, OFC blowing, dewatering, swabbing, magnetic cleaning, EGP, Vacuum drying and inertization/ gas-in etc, shall be as described further in the document and shall be payable as per relevant SOR item.

1.2 **HDD and Associated Works**

1	All type of pre-construction survey required for Design & calculation, Detail engineering, drawing, execution plan and their approval	2%
2	Approval of Design & calculation, detail engineering, drawing and Execution plan	1%
3	Pipeline string preparation and pre-testing (after stringing, welding. NDT, Joint coating) CS Conduit string preparation, welding & application of Coal tar Epoxy.	5%
4	Mobilization and placement of Drilling Rig (HDDM/c) at site alongwith All the accessories and consumables	2%
5	Installation of pipeline section by HDD, Post hydro-testing, gauging of pipeline, tie-in with Mainline.	70%

6	TCP works, Integrity of corrosion coating of installed 3LPE pipeline, Duct Integrity Test & OTDR for OFC	5%
7	Final Clean-up & restoration of area, disposal of drilling fluid and waste etc, and acceptance of the system by Owner	5%
8	Submission of final documents, final bill and acceptance of these by. owner thereafter for successful closure of work order	10%

Note: Failure of activities i.e. pulling, gauging, post hydro-testing etc. shall be responsibility of Contractor and no payment on account of any activity shall be payable to Contractor, Moreover, earlier successive payments made through RA Bills shall also be recovered, Loss of free issue material occurred due to failure shall be treated in-line with the provision of reconciliation of free issue material.

1.3 Crossing & Other items not covered above or elsewhere in the Tender

S. No.	Milestone	Payment
a)	Completion of individual items of work	90% progressively
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% progressively

1.4 OPTICAL FIBRE CABLE (Laying with Associated Works)

1	Completion of Laying/Blowing of OFC in same Pipeline Trench	30% progressively
2	Supply & Erection of Jointing Pit, Jointing of OFC as per Specification	20% progressively
3	OFC Testing as per Specification	40% progressively
4	Final completion, handing over of complete pipeline system and acceptance of the system by Owner	10% progressively

Note: The above payments shall be made subject to the following:

- a. In case, requirement of ROU related compensation arises for OFC cable blowing beyond two months of completion of hydro test of a Pipeline section, same shall be borne by laying contractor.

1.5 HDPE DUCT (Laying with Associated Works)

1	Completion of Laying of Duct in same Pipeline Trench	30% progressively
2	Supply & Erection of blowing pit every km, duct jointing for testing & termination of duct in the pit with end cap	25% progressively
3	Testing of HDPE Duct & Accessories after laying, preparation of report as per Specification	35%
4	Final completion, handing over of complete pipeline system and acceptance of the system by Owner	10%

2.0 CATHODIC PROTECTION WORKS

The basis for payment against various items shall be as follows:

2.1 Temporary Cathode Protection System

- a) 5% on placement of order on sub-vendor,
- b) 5% on design approval of TCP Package.
- c) 60% on receipt of material at site and acceptance thereof.
- d) 20% on installation, testing, pre-commissioning and commissioning.
- e) 10% on 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.

3.0 TERMINAL WORKS

3.1 Piping Works

- a) 35% on fabrication of piping.
- b) 40% on erection, alignment, welding, complete to achieve mechanical completion.
- c) 15% on flushing, testing, draining, drying, etc.
- d) 10% on 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.

3.2 Civil Works & Architectural Works

- a) 90% on completion of work on pro-rata basis as certified in running bills.
- b) 10% on 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.

3.3 Structural Works

- a) 5% on approval of fabrication drawings.
- b) 40% on supply and acceptance of material at site.
- c) 20% on fabrication.
- d) 25% on erection, alignment, welding, painting, etc.
- e) 10% on 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.

3.4 Items including supply of finished goods (Mechanical, Electrical, Corrosion Monitoring System (CMS) & Instrumentation)

- a) 5% on placement of order on sub-vendor
- b) 65% on receipt of material at site and acceptance thereof.
- c) 15% on erection, alignment, welding, grouting, painting, etc.
- d) 5% on testing.
- e) 10% on 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.

3.5 Items including supply of finished goods (Telecommunication)

- a) 5% on placement of order on sub-vendor.
- b) 65% on inspection of material at manufacturing premises by IGGL/PMC, receipt and acceptance of material at site.
- c) 5% after laying of HDPE duct and testing 5% on testing.
- d) 15% after blowing of cable, installation of jointing pits, termination of cable on FTC, hop testing and commissioning.
- e) 10% on completion of all activities and their acceptance. Submission of final documents, as built drawings, demonstrations of testing to IGGL/PMC and acceptance of these by owner thereafter for successful closure of work order.

3.6 Equipment Erection Works (Installation of Scrapper Trap, Filter, etc.)

- a) 45% on transportation and installation in position.
- b) 30% after initial alignment, leveling and grouting.
- c) 15% after final alignment and making ready for commissioning.
- d) 10% on 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.

3.7 Electrical, Instrumentation and Telecommunication Works

- a) 80% on completion of installation.
- b) 10% on testing.
- c) 10% on 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. In case of SCADA related works, final payment of 10% shall be released after completion of all wiring and demonstration by laying contractor for all the signals, Wiring up to TIC panel to be simulated and demonstrated to IGGL/PMC by laying vendor and jointly certified in the format in Appendix-I.

3.8 HDPE duct laying inside terminal

- a) Completion of laying of HDPE duct in same pipeline trench - 30% progressively.
- b) HDPE duct testing -60% progressively
- c) Final completion, handing over of complete pipeline system and acceptance of the system by the owner - 10%

3.9 OFC laying inside terminal

- a) Completion of laying/blowing of OFC inside HDPE duct in same pipeline trench - 30% progressively.
- b) OFC testing – 60% progressively
- c) Final completion, handing over of complete pipeline system and acceptance of the system by the owner-10%

3.10 For Lumpsum Items

For all lumpsum items included in schedule of rates, contractor shall furnish price break-up for quoted lumpsum prices for the approval of Engineer-in-charge. Payment for such item shall be made accordingly. In this regard decision of Engineer-in-charge shall be final and binding to the bidder.

3.11 Supply of Materials and All Other Works (not mentioned under 3.1 to 3.10)

1	Completion of individual items of work	90% progressively
2	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 payment purposes can be done depending upon the site situation/ requirement and Recommendation by Engineer-In-Charge and Approval of Construction-In-Charge

=====

4.0 PAYMENT METHODOLOGY

- 4.1 The contractor shall raise invoices on fortnightly basis. Bidder shall enclose all documents as per check list issued by PMC/IGGL. However, EIC may authorize payments for bills more frequently i.e. periodicity of less than fortnight, depending on site requirements.
- 4.2 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 IGGL. The balance amount will be released within a period of 15 days from submission of certified bill by PMC to IGGL."
- 4.3 Employer will release payment through e-payments/ cheques only as detailed in the Bidding Document.
- 4.4 Further break-up of Lumpsum Prices, if deemed necessary for any progressive payment of individual item, may be mutually arrived between Engineer-in-Charge and the Contractor.
- 4.5 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.
- 4.6 Bills shall be raised by contractor in line with check list attached in Tender document.
- 4.7 Contractor shall submit No Claim Certificate, No Dues Certificate and Indemnity Bond along with final bill. The Format for No Claim certificate and Indemnity Bond are enclosed elsewhere in the tender.

=====

CONDITIONS FOR ISSUE AND RECONCILIATION OF MATERIAL
(ANNEXURE-6 TO SPECIAL CONDITIONS OF CONTRACT)

1.0 CONDITIONS FOR ISSUE OF MATERIALS

Whenever any material is issued by Owner, following conditions for issue of materials 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 RETURN OF UNUSED MATERIAL

- 1.6.1 All unused/scrap materials shall be the property of the Owner and shall be returned in good and acceptable condition size wise, category wise by the Contractor at his own cost to Owner's Store(s).
- 1.6.2 No credit will be given to the Contractor for return of scrap. The Contractor should quote the rates accordingly.
- 1.6.3 In case the Contractor fails to return unused/scrap materials, then recovery for such quantity of materials, not returned by the Contractor shall be affected at following penal rates from the Contractor's bills or from any other dues of the Contractor to the Owner, Contractor shall make his own arrangements for weighing the off cuts to be returned to Owner's stores.

- 1.6.4 Penal Rates for non-return / return of materials:

Sl. No.	Material	Penal Rates
(a)	Penal rate for non-return of	Issue Rate + 25% or Landed Rate + 25% (in

	accountable scrap	case issue rate are not indicated in the contract)
(b)	Penal rates for non-return of Unused material/excess scrap	Twice the issue Rates or Twice the Landed Rates (in case Issue Rates are not indicated in the Contract)
(c)	Penal rate for return of excess scrap	Issue Rate + 75% or Landed Rate + 75% (in case issue rate are not indicated in the contract)
(d)	Penal rate for return of excess serviceable materials	Issue Rate + 50% or Landed Rate + 50% (in case issue rate are not indicated in the contract)
(e)	Penal rate for issuance of unplanned OFC jointing kits	Issue Rate + 25% or Landed Rate + 25% (in case issue rate are not indicated in the contract)

NOTE:

- 1) Landed Rate shall be arrived from the latest Purchase Order of respective material received at site by Owner.
- 2) In case different penal rates have been indicated in the Contract (based on Project requirement), the same will supersede the above rates.

2.0 PIPING MATERIALS

- 2.1 All pipes shall be issued in available lengths/shapes and no claims for extra payments on account of issue of non-standard length & shape will be entertained, Pipes shall be issued on linear measurement basis. All valves, flanges, fittings etc, shall be issued on number(s) basis. Contractor shall store the materials in such a way so as to avoid mixing of different types of material and shall maintain complete identification and traceability at all times.

=====

- 2.2 The scrap allowance for pipes issued by the Owner shall be 3% (2% accountable + $2\frac{1}{2}\%$ non-accountable) of the actual consumption as incorporated in the works.
- 2.3 All pipes in length of 2 meters and above shall be considered as serviceable material provided the material is in good and acceptable condition and has clear identification and traceability (Manufacturer's name, heat number/batch number and test certificates). Pipes in lengths less than 2M shall be treated as scrap.
- 2.4 For the non-account of pipes drawn by the Contractor over and above the actual consumption as determined by the Engineer-in-Charge, plus 3% ($2\frac{1}{2}\%$ accountable + $\frac{1}{2}\%$ non-accountable) thereof to cover the scrap allowance, recovery at penal rate shall be effected from the Contractor's bill(s) or from any other dues of the Contractor to the Owner.
- 2.5 All unused/scrap pipes, valves, flanges, forged fitting-like elbows, reducers tees shall be returned by the Contractor category wise duly cleaned, greased and spec, marked at his own cost to Owner's stores. In case the Contractor fails to do so then recovery for such quantity of pipes not returned by the Contractor at the penal rates shall be effected from the Contractor's bill(s) or from any other dues of the Contractor to the Owner.

3.0 EQUIPMENTS

Various equipment/materials intended for the installation will be received by Owner in unpacked, skid mounted, crated, packed or loose condition and will be stored in the warehouses and open yards. In general, materials will be issued to the Contractor in 'as received' condition. It will be the Contractor's responsibility to draw, load and transport all materials from Owner's designated places of issue to the point of installation and return all packing materials like steel frames, wooden boxes/scrap etc. to Owner's stores. All materials supplied by the Owner shall be duly protected by the Contractor at his own cost with appropriate preservative like primer, lacquer coating, grease etc, as required.

4.0 CABLES

- 4.1 Appropriation of cables shall be done as follows:
- 4.1.1 All the surplus and serviceable cables out of the cables quantity(ies) issued by the Owner to the Contractor shall be returned by the Contractor to the Owner's store in good condition and as directed by the Engineer-in-Charge.
- 4.1.2 The Contractor shall be allowed a cutting/wastage allowance of 1.5% for power cables and 3% for the control cables. This cutting/wastage allowance shall be computed on the length of cables actually laid, measured and accepted.

=====

- 4.1.3 All cables being returned to store should carry Aluminum sheet tags indicating the size & type of cable. Cables of less than 15 meters length will be termed as scrap. Cables of lengths 15M and above shall be termed as serviceable material & shall be returned size wise and category wise to the Owner's store in wooden drums. Cables of serviceable length being returned to stores in drum(s) shall be accepted only after Megger value continuity test and physical measurement is carried out by the Contractor to the satisfaction of Engineer-in-Charge, Empty cable drums and major packing material (as decided by Engineer-in-charge) shall be Owner's property and shall be returned to Owner's Store/designated place without any additional cost.
- 4.1.4 While carrying out material appropriation with the Contractor, the above points will be taken into account. All serviceable materials returned by the Contractor (size wise & category wise) shall be deducted from the quantity(ies) issued to the Contractor for the respective sizes, Scrap generated for power cable and control cable shall also be returned to Owner's store on Lot basis.
- 4.1.5 Material appropriation shall be done & allowable scrap quantity calculated. The wastage generated by the Contractor in excess of the allowable percentage shall be charged at the penal rates.

5.0 LINE PIPES

- 5.1 All coated line pipes as per Line Pipe specifications shall be issued on linear measurement basis. The line pipes shall be issued in available lengths and shapes and no claim for extra payment on account of issue of non-standard length and shape will be entertained. Contractor shall store and maintain the line pipes in proper manner to avoid mixing of different classes of pipes. Contractor shall maintain complete identification and traceability at all times, All cut pieces when returned to Owner's storage points after bevelling, shall be considered as serviceable material provided:

- 5.1.1 Corrosion Protection Coating is intact.
- 5.1.2 Pipe pieces have pipe specifications, manufacturer's logo/name and heat number duly authenticated with hard stamp of the authorized inspector as per approved procedure.

All cut pieces of pipes measuring less than 2 M will be treated as wastage/scrap.

- 5.2 For the purpose of accounting of coated line pipes, following allowances shall be permitted:

a)	Unaccountable wastage	0.1%
b)	Scrap (All cut pieces of pipes measuring less than 2 Meter)	0.25%
c)	Serviceable materials (All cut pieces of pipe measuring 2 Meter and above)	0.5%

However, total unaccountable wastage, scrap & serviceable materials shall not exceed 0.85%.

Scrap shall be accounted at actuals as per site assessment subject to maximum limits as stated above.

The percentage allowance shall be accounted on the basis of pipe book chainage for main pipeline.

- 5.2.1 Material appropriation shall be done & allowable scrap quantity calculated. The wastage generated by the Contractor in excess of the allowable percentage shall be charged at the penal rates as given in the contract.

- 5.3 *Reconciliation of Line Pipe issued to contractor on account of fabrication of LR bends shall be dealt separately. Justification/calculation of scrap and other wastage shall be submitted to EIC for their review and further clearance.*

If Scrap/wastage generated by the Contractor found in excess with respect to approved justification/calculation, penal rates shall be charged for excess scrap/wastage inline with the provision of contract.

6.0 OPTICAL FIBRE CABLE

For the purpose of accounting of optical fibre cable, all cut pieces measuring in length of 40 m and above when returned to Owner's storage points shall be treated as serviceable materials. All cut pieces of cable measuring less than 40 M will be treated as scrap.

Cables returned in original drum (measuring 750m and above) with Optical Time Domain Report (OTDR) shall be considered as unused material.

For the purpose of accounting of OFC (Optical Fibre Cable) following allowances shall be permitted:

=====

(i)	Unaccountable wastage	0.5%
(ii)	Scrap (All cut pieces of pipes measuring less than 40 Meter)	0.25%
(iii)	Serviceable materials (measuring 40M and above)	0.25%

Material appropriation shall be done & allowable scrap quantity calculated. The wastage generated by the Contractor in excess of the allowable percentage shall be charged at the penal rates as given in the contract.

7.0 OFC JOINTING KITS

The Contractor shall make a schedule for use of cable jointing kits and get the same approved from Engineer-In-Charge. The quantity mentioned in this schedule shall be termed as 'planned' usage quantity which shall be issued to the Contractor, However, any jointing based on site requirements as decided by Engineer-In-Charge shall be included in planned quantity.

Any unplanned jointing required to be carried out by the Contractor due to reasons not attributable to Owner/PMC shall be issued from spare quantity, if available with Owner. Such unplanned OFC jointing kits shall be charged from the Contractor at penal rates as per clause 1,6,4 above.

=====

SECTION-VII

PRICE SCHEDULE

SCHEDULE OF RATES (SOR)

SUB: "HIRING OF AGENCY ON RATE CONTRACT BASIS FOR EXECUTION OF LAST MILE CONNECTIVITY WORKS TO DIFFERENT CGD ENTITIES"

Tender No.: IGGL/GHY/C&P/LMC/10-25(E –TENDER NO. IGGL-100093)

Name of Bidder: M/s _____

Sl. No.	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
1.1	PIPELINE LAYING / INSTALLATION				
	Laying/ installation of coated line pipe, associated fittings and accessories, etc. as per specifications, other provisions of Contract and instructions of Engineer-in-Charge of the sizes mentioned herein, including but not limited to carrying out the following:				
	"Receiving & Taking-over", handling, loading of line pipes from Owner's dumpyards, transportation (transportation cost shall be paid extra) and unloading of Owner supplied externally corrosion coated and bare line pipes and other Owner supplied materials from Owner designated place(s) of issue/ dump site(s) to Contractor's own stock-yard(s)/ workshop(s)/ work-site(s) including stringing on the pipeline Right-of-Use (ROU)/ Right of way (ROW); Arrangement of all additional land required for Contractor's storage, fabrication, access for construction (other than Owner provided ROU/ROW); supply of all materials (except Owner supplied materials), consumables, equipment, labour, etc. and other incidental works; carrying out all temporary, ancillary, auxiliary works required to make the pipeline ready for pre-commissioning as per specifications, scope of work indicated in SCC and other provisions of Contract document and instructions of Engineer-in-charge, including but not limited to carrying out the following works :				
	Staking and installation of temporary construction markers, clearing, grubbing, grading (as required) of Right of Use/ Right of Way;				
	Counting the number and type of trees cut in presence of DFO/concerned authorities and keeping record thereof; shifting of all obstruction within the ROU / pipeline route alignment viz. electrical line / pole, telephone line (poles), foreign pipeline; coordination with concerned authorities.				
	Trenching to all depths and to a width to accommodate the pipeline and/or optical fiber cable/cable duct/ conduit during lowering & backfilling as specified in scope document and as per the relevant standards, specifications, etc by excavation in all types of soils (including				

=====

	soft/hard rock), including controlled blasting, chiseling or otherwise cutting etc.; providing depth of padding in trench bed & above and around the pipeline, HDPE duct and OFC as required with sand / graded earth approved by Engineer-in Charge;				
	<i>Trenching in rocky terrain by use of rock hammer/ Rock breaking tool or any other suitable and approved method, including controlled blasting (if required) with due approval of EIC.</i>				
	Survey of the detours, if required at the time of construction including marking the same in topographical sheet, preparation of AFC drawings showing survey detail and submitting same to Owner to review.				
	Carrying out repairs of pipe defects/ replacement in case of irreparable defects and repairs of defects of pipe coating not attributable to Owner including defects/ damages occurring during transportation/ handling after taking over from Owner by Contractor including management of their own dump site, if required.				
	Thorough internal cleaning of all pipes by suitable methods to remove debris, shots, grits etc. to the satisfaction of Engineer-in- Charge;				
	Stringing of line pipes along ROU/ROW including providing straw and sand.				
	Aligning, bending, cutting and beveling (as required) of pipes for welding and field adjustments, NDT of rebevelled area, welding, carrying out non-destructive testing (100%) by AUT/ X-Ray of welds as required and providing all requisite equipment, labor, supervision, materials, films, consumables, all facilities and personnel to process, develop, examine and interpret radiographs and other tests as required; carrying out repairs of weld joints found defective by Engineer-In- Charge, carrying out re-radiography and other nondestructive tests such as ultrasonic test etc. as required on repaired joints, etc. as mentioned in SCC & Particular Jobs Specification.				
	Installation of carrier pipe including concrete coated pipes (wherever required) at all crossings including roads/ cartrack / pathway / drain / canals/ nala/ marshy lands/ ponds/ other water crossings etc. (except at crossings by HDD method, Cased crossings, Crossings by machine moling/ Thrust boring and by open cut conventional method that are specifically covered separately elsewhere in the SOR) by open cut after prehydrotest of the section, if required, including re-storation of the banks to original conditions (in case of waterbody crossings) duly accepted by Competent Authority as defined as per specification.				
	Supply of coating materials for all field joints, Long Radius Bends, Buried Fittings, Valves, etc. including heat shrinkable sleeves and high build liquid epoxy etc. as per specifications compatible with 3-Layer PE Coating as per tender specifications with prior approval of Engineer-in-charge.				

=====

	Coating of all field weld joints, long radius bends, buried fittings, valves etc.;				
	Training and diversions of streams in steep slope areas, wherever required.				
	Crossing all the foreign pipeline / HT line / Power lines/ cable / any other utilities etc. with necessary concrete / PVC protection including coordination with all agencies.				
	Lowering the pipelines in trench including providing sand bag separators for parallel pipelines at the specified spacing (when applicable), providing required padding with sand/graded material approved by Engineer-In-Charge, over and around the pipeline, OFC & HDPE Duct, in rocky areas, including supply of sand/graded material. In addition to padding, rock shield to be supplied and installed over the pipeline in rocky areas, backfilling with available, approved excavated material and/or other suitable soil approved by Engineer-In-Charge;				
	Taking DGPS coordinates of each weld joint (including tie in joints) and including the same in field inspection report. The coordinate must have X,Y,Z (ground level) along with depth of cover.				
	Supply and installation of slope breaker in slightly undulating areas (having slope 6° to < 20°); slope stabilisation as per specification intimated by EIC in highly undulating areas (having slope ≥ 20°)				
	Installation of LR Bend, as per specification wherever required depending on site condition.				
	Supply and installation of warning mesh as per EN:12613 standard (latest edition) & as per relevant clause mentioned in PJS enclosed in the bid document.				
	Carrying out cleaning, pigging and hydrostatic testing including air cleaning, flushing, filling, gauging, pressurization of complete pipeline in various test sections as approved by Engineer-In-Charge to the specified test pressure, providing all equipment, pumps, fittings, instruments, dead weight tester, test headers, pressure recorder, all types of pigs etc., and services, supervision, labour, consumables, water including supply of corrosion inhibitor, air, etc. as required, locating of leaks, if any, occurred during hydrotesting attributable to contractor either by further sectionalising or any other suitable standard recommended practice with due approval of Engineer-in-Charge and rectification of defects, retesting after rectification, successful completion of hydrotesting of pipeline to acceptance criteria defined in the specifications.				
	(Note : Leak detection, its rectification and successfully re-hydrotesting shall be carried out by Contractor with a view that completion of all activity for successful hydrotesting is not inordinately extended, which will hamper the overall project schedule. Further, no extra payment claim shall be entertained for re-hydrotesting and leak detection if defects found				

=====

	attributable to Contractor.				
	All tie-ins, including the tie-in(s) of the pipeline / piping installed with the adjacent section of pipeline by others including cutting of test header, re-beveling as required , radiography and other NDT examination, joint coating as per specification.				
	Carrying out all temporary, ancillary, auxiliary works and all incidental works required to make the pipeline ready for pre-commissioning;				
	Repair of defects recorded during EGP/gauge plate run or otherwise including cutting, beveling, welding, radiography, field joint coating etc; as applicable,				
	Final clean-up and restoration of right of way/ right of use including disposal of debris and returning all surplus material to Owner's yards, as directed by Engineer-In-Charge;				
	Restoration of land, facilities, boundary wall and roads etc. and associated facilities dismantled/damaged by the Contractor during construction;				
	Complying with all stipulation/conditions/recommendation of the authorities before and after execution of the work;				
	Preparation of as-built drawings, pipe-book and other records as specified in the specifications. SOR shall be read in conjunction with scope of work, job specific requirements, specifications, standards and other provision of contract document. All above works, line pipe laying and installation all above works for buried pipeline as per following details:				
	Installation of Coated Line Pipes as per following details:				
1.2	8" (219.1 MM) x 7.04 MM (THK) coated pipeline in All type of strata including rock including forest - All types of terrain	10000	M	2,545.00	2,54,50,000.00
1.3	6" (168.3 MM) x 6.4 MM (THK) coated pipeline in All type of strata including rock including forest - All types of terrain	700	M	1,908.75	13,36,125.00
1.4	4" (114.3 MM) x 6.4 MM (THK) coated pipeline in All type of strata including rock including forest - All types of terrain	500	M	1,272.50	6,36,250.00
	Notes : 1. This item rate is applicable for complete work of laying of underground pipeline including installation of aboveground insulating joints, flow tee and station approach pipeline but excluding aboveground & underground installation of SV Station (tie in to tie in with mainline) which are covered separately. 2. Rate for laying of OFC & duct shall be quoted in relevant Schedule of Rates (SOR) of				

	Telecom works, hence not to be included in Pipeline Laying works. 3.The above rate shall be inclusive of hydrotesting of complete pipeline including hydrotesting of all crossing sections (including those of HDDs performed by separate agency, if any) along-with the mainline. 4. Payment for Preparation of as-built drawings, pipe-book and other records as specified in the specifications is to be covered in this SOR rate. 5. Contractor shall return all surplus material to defined storage yard as mentioned in Annexure-2 to SCC and as directed by Engineer-In-Charge. 6. Payment for supply & application of continuous concrete weight coating will be made as per other relevant SOR item. 7.The above item rate excludes crossings by HDD, Cased crossings, crossings by Open cut conventional method and Crossings by Moling technique/ Thrust boring (which are covered separately in relevant SOR items). For other crossings, it is deemed to be inclusive in above item rate.				
1.5	CONTINUOUS CONCRETE COATING				
	Additional work over and above SOR Sl. No. 1 for supply of all consumables and materials and application of continuous concrete weight coating of minimum density 2245 Kg/m ³ of minimum grade M-35 (design mix), on pipes of all wall thicknesses and concrete coating of the field joints thereof, in all areas of work (wherever required) except rivers /waterbody crossings covered separately under SOR item no. 6, and performing all works as per specifications and instructions of Engineer-in-Charge and other provisions of Contract document.				
	Pipes as per following details :				
1.6	Pipe - 8", 6", 4" dia	25	M	1,136.00	28,400.00
1.7	BACKFILLING WITH SELECT SOIL				
	BACKFILLING WITH SELECT SOIL (For Seismic Areas)				
1.8	Providing specified and approved quality of backfill material as defined in contract document at seismic zone along pipeline route (wherever applicable) as per standards/ specifications over and above item 1, including supply of select backfill in place of available excavated material and/or other suitable soil including backfilling of excavated trench after laying of pipeline and optical fiber cables/ cable conduit (wherever applicable) including transportation of such special backfill material over all distances and disposal of surplus excavated soil.	5	M ³	762.93	3,814.64

1.9	<u>RIVER/ WATERBODY CROSSINGS BY OPEN CUT CONVENTIONAL METHOD</u>				
	Complete work of the crossings (between the limits as defined in approved drawing) including "Receiving and taking over" of owner supplied corrosion coated line pipes from owner's designated places of issue/ dump site(s) and transportation (transportation cost shall be paid extra) to Contractor's stock yard/ work shop/ worksite including all handling, loading, unloading, etc. supply of all Contractor supplied material to worksite(s) including consumables, deployment of manpower, equipments, other resources and acquiring the required land for storage, fabrication, access for Contractor etc. and execution of, but not limited to, following works in accordance with specifications and instructions of Engineer-in-charge and as per all provision of Contract Document.				
	For waterbody crossings: Pre-construction survey, obtaining scour depth (for river) from concerned authority (if required), necessary cover required over the carrier pipeline from lowest bed level of the stipulated water crossing to be obtained from concerned authority, bed strata data including design & detail engineering and making of crossing drawing for getting their approval from concerned Authority/ Engineer-in-charge, getting work permit/ NOC for water crossings as well as utility crossings, (if any), encountered during water crossing prior to start of execution of work.				
	Following data shall be obtained from concern authority/ local sources (for river) to finalise scour depth :-				
	(i) Past Historical flood level data indicating HFL to determine highest flood level.				
	(ii) River flow data including velocity of water flow.				
	(iii) Necessary information regarding type of soil and strata underneath the river bed.				
	All works related to construction of cofferdam, dewatering and stream diversion etc. (as required); Trenching to the required depth on the banks and bed including maintenance of trench in all types of strata, all depth to a width to accommodate the pipeline and CS conduit at all conditions of the water crossings for providing with minimum cover over top of the pipe at all point across the maximum possible width of water bed (as per drawing) either 1.5 mtrs. below the predicted scour profile expected during the life time of the pipeline or 2.5 mtrs. below the available lowest firm bed (if scour profile/ depth not available) of the water crossing by ascertaining bed level upto 50 mtrs. both the side from crossing location or the actual depth as per code/ specification or as decided by concerned Authority/ Engineer-in-charge whichever is more.				

=====

	Strings preparation of pipes, welding, testing, 100 % radiography by AUT/ X-ray, welding repair and retest, coating of field joints with Heat Shrink Sleeve or equivalent (including supply of coating material) and repair of pipeline coating with repair patch or equivalent material (including supply of repair patch) as per specification, pre-hydrotest of complete strings made for crossing etc.				
	Final strings preparation of pipes as decided by Engineer-in-charge depending on site condition, repair of coating damages,coating of field joints, etc. as per respective technical specification.				
	Supply and application of Continuous concrete weight coating of minimum density 2245 kg/m ³ of minimum grade M-35 (design mix) on pipes and field joints thereof in all areas of work wherever required as per site condition and performing all works as per specification. Concrete Coating thickness for 18" - 80 mm/ 8"-40 mm				
	Laying of the pipeline by the approved crossing method across the water crossing in the approved trench.				
	Supply and installation of warning mesh as per EN:12613 standard (latest edition) & as per relevant clause mentioned in PJS enclosed in the bid document.				
	Backfilling of the trench including supply and padding by select backfill as required: re-storage of banks to original condition duly accepted by Competent Authority and getting NOC from concerned authority, restoration of disturbed area and clean-up etc.				
	Pigging, cleaning, Post installation hydrotest, dewatering, swabbing and tie-in with pipeline at either banks etc.as per specification, codes, approved drawings, calculations, methods and as directed by Engineer-in-charge.				
	River/ Water Crossings wherever required at minimum cover mentioned as above.				
1.10	Crossing of river/ waterbody for carrier pipeline of size 8", 6", 4" OD along with CS conduit of size 150 mm X 6.4 mm thick. of IS 3589 or equivalent ERW Pipe for HDPE duct and OFC	25	M	9,700.00	2,42,500.00
	<u>Note:</u> (i) The width indicated is not for any single crossing. This shall be as per requirement at site for crossing at different locations.				
	(ii) Final length of string & cover from top of pipe for each crossing shall be decided and approved by concerned Authority/ Engineer-in-charge.				
	(iii) Payment for the length of final tied-in carrier pipeline string with mainline and CS conduit made for crossing laid by open cut conventional method are inclusive in the above item rate and no separate payment shall be made under other clause mentioned elsewhere.				
	(iv) Payment for concrete coated portion (limited to bank to bank) shall be made by separate SOR item and payment for rest of the portion shall be made by other relevant SOR item.				

=====

	(v) If need for bank and bed stabilization arises as per instructions of Engineer-in -charge, the scheme for Bed & Bank Stabilisation as per drawing produced by the contractor shall be executed and the same shall be paid separately as per rates provided elsewhere in the SOR.				
1.11	<u>CROSSING (by HDD Method)</u>				
	Complete work of any crossing (between the limits as defined in approved drawing - detailed construction drawings shall be prepared by the contractor duly approved by OWNER/PMC) by HDD method including "Receiving and taking over" owner supplied three layer PE coated line pipes from Owner's designated place to issue/ dump site(s) and transportation (transportation cost shall be paid extra) to Contractor's stock yard/ work shop/ work site including all handling, loading, unloading, aligning etc. supply of all Contractor supplied material including consumables, deployment of manpower, equipment, other resources to work site(s) and acquiring the required land for storage., Execution of, but not limited to, following works in accordance with specifications and instruction of Engineer-in-charge and as per all provision of Contract Document.				
	For waterbody, In-situ pre-construction survey including auger bore(s) of minimum 6.0 M depth [in the middle third of waterway; at least 1 in each waterbody and at interval of 50M centres] to establish bed strata,its bore log by soil testing; obtaining historical data/ scour depth (in case of river) from concerned authority ascertaining under neath soil & strata, necessary cover required over the carrier pipeline from lowest bed level of the stipulated water crossing including design & calculation and detail engineering and making of crossing drawing for getting the approval from concerned Authority/ Engineer-in-charge, getting work permit/ NOC for water crossings as well as utility crossings (if any) encountered during water crossing prior to start of execution of work. For road and railway crossings, pre-construction survey based on site visit, collection of data (if required) from concerned Authority including design and detail engineering and making of crossing drawings for getting their approval from concerned Authority / Engineer-in-charge, getting work permit/ NOC for the crossing as well as utility crossings (if any) encountered during crossing prior to start of execution of work.				
	<u>In case of water body crossings</u> Drilling to the required depth on the banks and bed including maintenance of drill hole in all types of strata including hard rock, all depth to accommodate the pipeline and CS conduit for OFC laying at all conditions of the waterbody crossings by HDD methods for providing with minimum cover either (i) Minimum 1.5m below the scour level / profile or as duly approved/ accepted by concerned				

=====

	authority (under whose jurisdictions the crossing lies) whichever is more---- For rivers with rocky bed or (ii) Minimum 2.5m below the scour level / profile or as duly approved/ accepted by concerned authority (under whose jurisdictions the crossing lies) whichever is more---- For major rivers. or (iii) Minimum 1.5 m below the bed level / profile or as duly approved/ accepted by concerned authority (under whose jurisdictions the crossing lies) whichever is more---- For minor waterbody crossings. and (iv) In addition to point (i) & (ii), In case of multiple combined X-ing i.e. river alongwith road/ drain, minimum cover requirement as per specification/ concerned authority for each type of x-ing has also to be fulfilled.				
	In case of road crossing, drilling to required depth from top of road including maintenance of drill hole in all types of strata including hard rock, all depth to accommodate the pipeline and CS conduit for OFC laying at all conditions encountered during road crossing by approved HDD methods for providing minimum cover specified in code/ specification or the actual depth as decided by concerned authority, whichever is more. In case of railway crossing, drilling to required depth from top of rail including maintenance of drill hole in all types of strata including hard rock, all depth to accommodate the pipeline and CS conduit for OFC laying at all conditions encountered during railway crossing by approved HDD methods for providing minimum cover of 7 m below ground level throughout railway land width and also at least 7 meters below formation level in cutting throughout the railway land width or as specified in RDSO guidelines / code / specification or the actual depth as decided by concerned authority, whichever is more. For railway crossings, class 4 pipe shall be used within railway land and up to a distance of risk radius outside the railway boundary (ROU/ROW) on either side.				
	Laying of the pipeline (for water body, road and Railways crossing) by the approved HDD method across the crossing including, strings preparation of pipes, welding, testing, 100% NDT by AUT/ radiography by x-ray, welding repair and retest, coating of field joints with special type Dirax Heat Shrink Sleeve or equivalent (including supply of coating material) and repair of pipeline coating with special PERP-60E repair patch or equivalent material (including supply of repair patch) as per specification, pre-hydrotest of complete strings made for crossing etc.				
	String preparation and laying of 6 inch CS conduit for OFC by HDD method, welding etc.				
	Backfilling of the ditch/ trench including restoration and clean-up of area, disposal of drilling fluid & waste etc. to the satisfaction of Engineer-in-charge and /or as directed by Concerned				

=====

	Authority.				
	Gauging, Pigging, Cleaning, Post installation hydrotest, dewatering, swabbing and tie-in with pipeline at either banks etc. as per specifications, codes, approved drawings, calculations, methods and as directed by Engineer-in-charge and provision of contract document; getting NOC from all concerned authority of the facilities crossed.				
	Details of Crossing				
1.12	Any type of crossings for carrier pipeline of size 8", 6", 4" and CS conduit of size 150 NB X 6.4 mm thick of IS 3589 or equivalent ERW Pipe for HDPE duct and OFC.	100	M	16,000.00	16,00,000.00
1.13	Any type of crossings for carrier pipeline of size 8", 6", 4" and HDPE duct and OFC.	100	M	9,500.00	9,50,000.00
	<u>Notes</u> : (i) The width indicated are not for any single crossings. This shall be as per requirement at site for crossing at different locations.				
	(ii) Width of the crossings are indicated in respective Crossing drawing enclosed with the tender document. Crossing width may vary as per site condition. String length for HDD shall vary as per design calculations so that pipe is not under stress as permitted by codes/ specifications. However final length of string & cover from top of pipe shall be decided and approved by concerned Authority / Engineer-in-charge.				
	(iii) It is sole discretion of the Contractor to do HDD crossing of mainline pipe as well as CS conduit pipe either by suitably strapping together both the carrier pipe & CS conduit and pulled through the same drill hole or making separate HDD for 6" CS conduit for OFC laying at minimum 4m distance apart from centreline of HDD of mainline either side. However, authority requirement shall be binding on Contractor. No separate payment for HDD for 6" CS conduit shall be paid.				
	(iv) Payment for the length of final tied-in carrier pipeline string with mainline and CS conduit laid by HDD method are inclusive in the above item rate and no separate payment shall be made under other clause mentioned elsewhere.				
	(v) This item is applicable for Railway crossings, specific road crossings (in case of requirement as per concerned authority permission or as decided by EIC) and waterbody crossings duly approved by EIC. The above rate is also applicable in case of change in crossing methodology of any particular crossing by EIC.				
	(vi) Payment for supply of CS conduit shall be made as per rates available elsewhere in the SOR.				

=====

1.14	PERMANENT MARKERS				
	Supply, fabrication and installation of following types of permanent markers along the route including all associated civil works such as excavation in all types of soil, construction of pedestals and grouting with concrete, cleaning, supply and application of approved colour and quality of primer and paint, stencil letter cutting for numbers, direction, chainage, etc., restoration of area to original condition and performing all works as per drawings, specifications and instructions of Engineer-in-charge.				
1.15	Pipeline Warning Signs	10	Nos.	8,013.62	80,136.16
1.16	Right-of-way boundary markers	100	Nos.	1,560.45	1,56,045.10
1.17	Kilometer Posts	12	Nos.	8,740.88	1,04,890.53
1.18	Direction Markers	10	Nos.	6,745.25	67,452.52
	Note : Final quantities of Marker may vary. This shall be confirmed by EIC before fabrication.				
1.19	MAGNETIC CLEANING AND ELECTRONIC GEOMETRY PIGGING				
1.20	Mobilisation/demobilisation of pigging tools, tackles, consumables, accessories and personnel by contractor at work site including but not limited to magnet pig, electronic geometry pigs and pig tracking device, temporary launcher and receiver as per specification and other provision of the bid document including supply of material, equipment, manpower, etc. as required for geometry inspection and magnet cleaning including calibration of magnetic and caliper tools at works site, running of adequate no. of magnet pigs and electronic geometry pigs (caliper) including pig tracking at 5 to 10 Km interval, preparation of site report on pipeline, data analysis at Contractors facility as per specification and provisions of the Bid Document.	11.5	Km	40,000.00	4,60,000.00

1.21	PRE-COMMISSIONING OF ENTIRE UNDERGROUND PIPELINE AND TERMINALS / STATIONS.				
	Pre-commissioning activities and pre-commissioning checks to the specified acceptance criteria, making the entire pipeline system ready for commissioning, providing assistance during the complete duration of commissioning operations, supply of all equipment, manpower, consumables (including pigs and required quantity of nitrogen for valve operations) materials for all temporary works and performing all associated works, complete as per the relevant specifications, other provisions of Contract document and instructions of Engineer-in-Charge.				
	Pre-commissioning Checks				
1.22	Pre-commissioning of pipeline including terminals/stations for 8" pipeline	11.5	Km	20,000.00	2,30,000.00
1.23	Dewatering and swabbing				
1.24	Dewatering and swabbing of pipeline including terminals / stations for 8" Shillong CGD line	11.5	Km	12,300.00	1,41,450.00
1.25	DRYING				
	Complete work of carrying out drying by vacuum drying method of pipeline section including supply of manpower, equipments & consumables, materials for all temporary works and performing all associated works, complete as per the relevant specifications, other provisions of Contract document and instructions of Engineer-in-Charge.				
1.26	Drying by vacuum drying method for 8", 6", 4" pipeline	11.5	Km	20,000.00	2,30,000.00
1.27	COMMISSIONING ASSISTANCE AND COMMISSIONING				
1.28	Providing commissioning assistance to other sections (if applicable) and commissioning of the section (8" Shillong CGD line) including all stations and including supply of all consumables, nitrogen, all equipment, manpower, etc., complete as per requirement of specifications, other provisions of contract document and instruction of Engineer In-charge.	11.5	Km	11,866.92	1,36,469.60

1.29	TRANSPORTATION OF LINE PIPES, FITTINGS, FLANGES, VALVES ETC.				
1.30	"Receiving and taking over", handling, lifting, loading on truck, transportation and unloading of Company supplied line pipes, fittings, flanges and valves etc from any storage yard (other than the designated storage yard for the project) to worksite / contractor's storage yard/ any other storage yard or as decided by EIC. The above work also includes stacking the flanges, fittings and valves etc. properly. Above work shall be carried out as per standard drawing, specification, instruction of Owner and other provision of contract document.	135000	MT-Km	26.80	36,17,578.13
	Notes: i) The quantities given in above item no. are tentative only and shall not be considered to be binding. The quantities may be increased, decreased or deleted as per the actual site requirement and instructions / recommendations of Owner. The unit rate shall be operated to work out the final payment to the contractor.				
	ii) Above price shall be inclusive of all type of taxes & duties, transit insurance during transportation & other insurance etc. including all financial & commercial implication as per the tender document. No other payment except as per quoted unit rate & executed quantities will be payable by the Owner.				
1.31	<u>LONG RADIUS BENDS</u>				
1.32	Supply of Long Radius Bends (R = 6D) for 8" dia. pipe, X-56 (thk. 7.92 mm) as per Technical Specifications such as OISD Standard 226, ASME B 31.8, ANSI B 36.10, ANSI B 1.20.1 NPT, ASME B 16.11, ASME B 16.9 / MSS-SP-75, ANSI B 16.25/ API 5L, ASME B 31.8, MSS-SP-97, ASME B 16.9, MSS-SP-97, etc., enclosed in Tender Document (Bare pipe for LR Bends shall be free issue to the contractor).				
1.33	20° - 30°	1	Nos.	59,565.22	59,565.22
1.34	31° - 45°	1	Nos.	63,000.00	63,000.00
1.35	46° - 60°	2	Nos.	80,434.78	1,60,869.57

=====

1.36	61° - 90°	2	Nos.	76,666.67	1,53,333.33
	Note : The quantities of LR Bends may vary. For final quantity, approval shall be taken from EIC before placement of order.				
1.37	SUPPLY AND COATING OF CS CONDUIT				
	Complete work of supply of carbon steel pipes required for crossing, including all taxes, duties, transportation and inspection charges but not limited to, the following items in accordance with relevant specifications indicated in scope of work indicated in SCC, drawings, specification and instructions of Engineer-in-charge and as per all provisions of the CONTRACT DOCUMENT. And also Handling including lifting, transportation from Contractor Stores to CONTRACTOR's workshop for fabrication and/ or to work site.				
1.38	All works related to supply of CS conduit of size 150 mm (6 inch), 6.4 mm thick IS 3589 (Fe 410) or equivalent ERW pipe for various crossings and coating with coal tar epoxy coating of minimum 600 microns (after proper cleaning) including supply of coating material, consumables etc.	100	M	2,732.44	2,73,244.33
1.39	PIPE LAYING BY THRUST BORING/ MACHINE MOLING TECHNIQUE (WITHOUT CASING) FOR CARRIER PIPE AND HDPE DUCT				
	Complete work of any type of crossing (between the ROW limits as defined in Crossing Drawings enclosed with Bid Document) using Thrust Boring/ Machine Moling technique for Carrier pipe along with HDPE duct for OFC including "Receiving and taking over" owner supplied three layer PE coated line pipes from Owner's designated place to issue/ dump site(s) and transportation to Contractor's stock yard/ work shop/ work site including all handling, loading, unloading, aligning etc. supply of all Contractor supplied material including consumables, manpower, equipment, other resources to work site(s), Pre-construction survey and making of crossing drawing based on site visit and getting their approval from concerned Authority/ Engineer-in-charge prior to starting the execution of work. Execution of works in accordance with specifications and instruction of Engineer-in-charge and as per all provision of Contract Document.				
1.40	Installation of 8", 6", 4" carrier pipe along with HDPE duct using Thrust Boring/Machine Moling technique (without Casing)	50	M	9,954.55	4,97,727.27

=====

	Notes: 1. This item rate is applicable for complete work of crossing using Thrust Boring/Machine Molding technique (without Casing) for Carrier pipe including stringing, welding, 100% radiography, joint coating, restoration of pit etc. 2. The length of pipeline are tentative and for multiple crossings at different locations wherever required. 3. This SOR item shall be applicable in case of soft soil and as per instruction and after due approval of Engineer-in-charge. 4. It is sole descretion of the Contractor to carryout the crossing of carrier pipe alongwith HDPE Duct through the same drill hole or making separate holes for carrier pipes and HDPE duct. No separate payment shall be made for HDPE duct for said crossing.				
1.41	ROU MANAGEMENT FOR MAINLINE WORKS				
1.42	ROU management of entire pipeline route (Shillong CGD Line) covered under SOR item no. 1 above, during preconstruction survey, opening of ROU and maintenance of ROU upto completion of entire Mainline works (including CP and Telecom works); all type of liasoning/coordination with local people/villagers, farmers, land owners or any other person/ institution etc. directly or indirectly linked with the pipeline/affected by the pipeline laying activities for ensuring hindrance-free construction works at site; obtaining NOC from respective land owner(s), farmers etc. as and when required; Liasoning/Coordination and obtaining work permits, NOC from various statutory authorities having jurisdiction for execution of the crossings by open cut method cover under mainline works (SOR item 1) and complying with all stipulations/ conditions/ recommendations of the said authorities.	11.5	Km	1,23,000.00	14,14,500.00
	Notes: 1. Statutory fees/ Payment as per govt. guidelines to farmers etc against ROU opening shall be paid by the owner. 2. Payment shall be made as below- a) 40% after completion of welding b) 50% after completion of lowering & back-filling c) 10% after obtaining NOC (after restoration) from respective land owner / farmers and statutory authorities as required .				
1.43	Unloading of Free Issue Materials	20.00	MT	5,858.82	1,17,176.40

=====

1.44	Temporary cathodic protection consisting of TLP, Mg Anodes (10 KG), connecting cables, jumpers, thermit welding, etc	11.50	KM	50,000.00	5,75,000.00
2.0	PIPING & MECHNAICAL WORKS				
2.1	<u>PLANT PIPING (ABOVEGROUND/ UNDERGROUND) FABRICATION, ERECTION, INSTALLATION AND TESTING OF PIPING :</u>				
	Transportation including loading, unloading, handling of all piping items from Owner's and/ or Contractor's storage point to work site/ workshop as applicable, complete work of fabrication, erection, painting, testing of pipes, flanges and fittings and making ready for further Commissioning / Start-up of carbon steel piping of all sizes and ratings including supply of all consumables, equipment, manpower and other resources and execution of, but not limited to, the following works in accordance with relevant specifications indicated in SCC & scope of work indicated in SCC, specification and drawings as accepted by the EIC and instructions of Engineer-in-charge and as per all provisions of the CONTRACT DOCUMENT.				
	Fabrication including cutting, edge preparation, inclusive of grinding the edges of pipes, fittings, flanges etc. to match with the matching edges of uneven/different thickness wherever required, welding, attachment of all pipe fittings like elbows, tees, reducers. Supply of nipples, coupling etc. as required for completion of job.				
	Weldolets, sockolets, flanges, vent and drain point connection etc., including providing stub-in connections, fabricated fittings and reinforcement pads etc., as required.				
	Erection including prior cleaning, lifting, placing on pipe sleepers and supports, overhead on racks, skids and at all elevations including installation and carrying out connected activities for all types of valves including supply and fixing of gaskets, studs/ bolts, nuts wherever required for all sizes, levelling, aligning, joining of flanges, blind flanges, connecting with equipment, nozzles, strainers, tie-in with existing piping/facilities, etc. tapping for inline instruments like pressure gauges, thermowells, sample connection, etc.				
	Preparation of final bill of material based on piping GADs.				
	Preparation of isometric and fabrication drawings.				
	Carrying out 100% Non-destructive testing.				

=====

	Surface preparation before application of primer by means of sand blasting including supply of approved quality of sand, manpower, machineries, tools & tackles to achieve required roughness as per specification and as per instruction of Engineer-in-charge.				
	Painting of entire system (including aboveground all pipes fittings, flanges and accessories) suitable for highly corrosive area environment including supply of approved paints and primers, application of primer and paints, identification lettering/ numbering, colour coding, etc. as specified including rub down & touch up of shop primer or scrapping of shop primer wherever required by COMPANY and providing scaffolding for all heights etc.				
	Underground portion of piping system shall be protected from external corrosion by providing 3LPE coated heat shrink sleeve or equivalent and application of the same shall be extended upto 500 mm above FGL/ plant area NGL, whichever is higher.				
	Cleaning and flushing by water/ compressed air, testing of the systems including hydrostatic, pneumatic and any other type of testing as specified, draining, drying by compressed air/other methods approved by COMPANY.				
	Precommissioning & making operational all piping system and equipments and provide all necessary assistance in terms of supply of man-power, equipment, tools and tackles required amount of nitrogen for purging of entire terminal piping system including equipments etc.				
	Clean-up and restoration of site, preparation of as built drawings, documents and project records; transportation of surplus free issue material to Owner's designated place(s); completing all works in all respects as per the AFC drawing, specifications, standards and other provisions of Contract and instruction of Engineer-in-charge.				
	Completion of all such work in all respects as per scope of work and as per drawings, specifications and instructions of the COMPANY and keeping the system ready in all respects for commissioning and start up.				
	Hook-up works (with client/ consumer piping at battery limits) wherever required.				
	Complete Carbon Steel Piping Work (seamless pipes) with painting including all fittings, flanges and supply of all required gaskets, studs/bolts & nuts etc. as described below				
2.2	12", API 5L, Gr. X-52	192.00	M	6,949.86	13,34,373.70

=====

2.3	8", API 5L, Gr. X-52	800.00	M	4,152.84	33,22,269.77
2.4	8", ASTM A333	192.00	M	3,773.80	7,24,569.60
2.5	6" ASTM A 106	192.00	M	4,825.37	9,26,470.24
2.6	6" ASTM A333	192.00	M	3,875.38	7,44,073.85
2.7	4" ASTM A 106	192.00	M	2,317.88	4,45,032.33
2.8	4" ASTM A333	192.00	M	2,717.09	5,21,682.19
2.9	2" ASTM A 106	192.00	M	1,643.08	3,15,471.74
2.10	2" ASTM A333	192.00	M	1,438.09	2,76,112.94
2.11	1 1/2" ASTM A 106	192.00	M	1,453.33	2,79,040.00
2.12	1" ASTM A 106	192.00	M	1,034.29	1,98,584.20
2.13	1" ASTM A333	192.00	M	1,303.53	2,50,278.40
2.14	3/4" ASTM A 106	192.00	M	760.74	1,46,062.70
2.15	3/4" ASTM A333	192.00	M	745.81	1,43,195.43
	1) Pipe Specification and thickness may vary depending upon availability of pipe. No extra payment shall be made for this. 2) All butt welded fittings end shall generally match with connecting pipe wall thickness. However, in case of misalignment, Contractor shall have to do end preparation without any extra cost. 3) All coupling, nipples etc. as required shall be supplied by contractor but no separate payments shall be made as it is covered under erection rate.				

=====

	4) NDT of Joints below 2" is to be included in above rate. However, payment of radiography of joints (2" and above) shall be paid separately under SOR item for RADIOGRAPHY mentioned elsewhere in this SOR. 5) Surplus free issue material shall be transported to Owner's designated place(s)				
2.16	<u>SUPPLY OF ASSORTED PIPE, FLANGES AND FITTINGS</u>				
	Complete work of supply of assorted pipes, flanges and fittings including all taxes, duties, transportation and inspection charges but not limited to, the following items in accordance with relevant specifications indicated in scope of work indicated in SCC, specification and instructions of Engineer-in-charge and as per all provisions of the CONTRACT DOCUMENT.				
	Handling including lifting, transportation from Contractor Stores to CONTRACTOR's workshop for fabrication and/ or to work site for field fabrication and erection for all piping items supplied by Contractor.				
2.17	CARBON STEEL PIPES (SEAMLESS)				
2.18	12", API 5L, Gr. X-52	192.00	M	16,217.18	31,13,698.30
2.19	8", API 5L, Gr. X-52	800.00	M	8,621.15	68,96,922.94
2.20	8", ASTM A333	192.00	M	6,648.00	12,76,416.00
2.21	6" ASTM A 106	192.00	M	4,728.25	9,07,824.09
2.22	6" ASTM A333	192.00	M	5,185.19	9,95,556.32
2.23	4" ASTM A 106	192.00	M	3,111.03	5,97,317.96
2.24	4" ASTM A333	192.00	M	3,558.26	6,83,186.38

=====

2.25	2" ASTM A 106	192.00	M	1,275.14	2,44,827.06
2.26	2" ASTM A333	192.00	M	1,240.00	2,38,080.00
2.27	1 1/2" ASTM A 106	192.00	M	1,065.83	2,04,638.61
2.28	1" ASTM A 106	192.00	M	805.11	1,54,581.33
2.29	1" ASTM A333	192.00	M	1,121.67	2,15,360.00
2.30	3/4" ASTM A 106	192.00	M	876.00	1,68,192.00
2.31	3/4" ASTM A333	192.00	M	1,183.37	2,27,206.74
2.32	FLANGES				
2.33	Weld Neck [B-16.5, ASTM A694 Gr.F-52 (Charpy), 125 AARH, RF] (End Thickness to match pipe thickness) 12"600#	32	EA	24,410.46	7,81,134.80
2.34	Weld Neck [B-16.5, ASTM A105, (Charpy), 125 AARH, RF] (End Thickness to match pipe thickness) 8" 600#	160	EA	12,401.23	19,84,196.57
2.35	Weld Neck [B-16.5, ASTM A105, (Charpy), 125 AARH, RF](End Thickness to match pipe thickness) 6" 600#	32	EA	7,851.00	2,51,232.00
2.36	Weld Neck [B-16.5, ASTM A105, (Charpy), 125 AARH, RF] (End Thickness to match pipe thickness) 4" 600#	32	EA	4,477.07	1,43,266.27
2.37	Weld Neck [B-16.5, ASTM A105, (Charpy), 125 AARH, RF] (End Thickness to match pipe thickness) 2" 600#	32	EA	1,290.99	41,311.75
2.38	Socket Welded (B-16.5, ASTM A105, 125 AARH, RF) 1½" 600#	32	EA	1,107.50	35,440.00
2.39	Socket Welded (B-16.5, ASTM A 350 GR LF2, CL-I, 125 AARH, RF) 1" 600#	32	EA	775.32	24,810.18

=====

2.40	Socket Welded (B-16.5, ASTM A 350 GR LF2, CL-I, 125 AARH, RF) ¾" 600#	32	EA	588.77	18,840.73
2.41	Blind Flanges [B-16.5, ASTM 105 (Charpy), 125 AARH, RF] 12"600#	32	EA	23,222.19	7,43,110.12
2.42	Blind Flanges [B-16.5, ASTM 105 (Charpy), 125 AARH, RF] 8"600#	32	EA	11,270.31	3,60,649.93
2.43	Blind Flanges [B-16.5, ASTM 105 (Charpy), 125 AARH, RF] 4"600#	32	EA	5,635.16	1,80,324.97
2.44	Blind Flanges [B-16.5, ASTM 105 (Charpy), 125 AARH, RF] 2"600#	32	EA	2,817.58	90,162.48
2.45	Blind Flanges (B-16.5, ASTM A350 Gr. LF2 CL-I, 125 AARH, RF) ¾" 600#	32	EA	482.85	15,451.08
2.46	Spectacle Blind [B-16.48, ASTM A105 (Charpy), 125 AARH, FF] 12"600#	32	EA	13,471.88	4,31,100.16
2.47	Spectacle Blind [B-16.48, ASTM A105 (Charpy), 125 AARH, FF] 8"600#	32	EA	9,200.00	2,94,400.00
2.48	Spectacle Blind [B-16.48, ASTM A105 (Charpy), 125 AARH, FF] 6"600#	32	EA	8,963.08	2,86,818.46
2.49	Spectacle Blind [B-16.48, ASTM A105 (Charpy), 125 AARH, FF] 4"600#	32	EA	3,488.61	1,11,635.44
2.50	Spectacle Blind [B-16.48, ASTM A350 Gr. LF2 CL-I, 125 AARH, FF] 2"600#	32	EA	1,318.14	42,180.47
2.51	Spectacle Blind [B-16.48, ASTM A350 Gr. LF2 CL-I, 125 AARH, FF] 1"600#	32	EA	755.15	24,164.80
2.52	ELBOW				
2.53	90° Elbow [MSS- SP -75 GR.WPHY52, MSS-SP-75, 1.5D, BW] 12" S60	32	EA	21,870.12	6,99,843.78
2.54	90° Elbow [ASTM A234, Gr. WPB (Charpy), B-16.9, 1.5D, BW] 8" 14.3	32	EA	11,449.47	3,66,382.99

=====

2.55	90° Elbow [ASTM A234, Gr. WPB (Charpy), B-16.9, 1.5D, BW] 6" XS	32	EA	4,662.93	1,49,213.67
2.56	90° Elbow [ASTM A234, Gr. WPB (Charpy), B-16.9, 1.5D, BW] 4" XS	32	EA	1,442.55	46,161.61
2.57	90° Elbow [ASTM A420 GR. WPL6, B-16.9, 1.5D, BW] 2" XS	32	EA	1,650.18	52,805.64
2.58	90° Elbow [ASTM A350 Gr. LF2, B-16.11, SW] 1" XS	32	EA	338.67	10,837.33
2.59	90° Elbow [ASTM A350 Gr. LF2, B-16.11, SW] ¾" S160	32	EA	283.48	9,071.41
2.60	45° Elbow [ASTM A234, Gr. WPB (Charpy), B-16.9, 1.5D, BW] 12"14.3	32	EA	12,247.37	3,91,915.79
2.61	45° Elbow [ASTM A234, Gr. WPB (Charpy), B-16.9, 1.5D, BW] 8"14.3	32	EA	9,674.40	3,09,580.80
2.62	45° Elbow [ASTM A234, Gr. WPB (Charpy), B-16.9, 1.5D, BW] 6"14.3	32	EA	7,255.80	2,32,185.60
2.63	45° Elbow [ASTM A234, Gr. WPB (Charpy), B-16.9, 1.5D, BW] 4"14.3	32	EA	4,837.20	1,54,790.40
2.64	45° Elbow [ASTM A234, Gr. WPB (Charpy), B-16.9, 1.5D, BW] 2"14.3	32	EA	2,418.60	77,395.20
2.65	EQUAL TEE				
2.66	MSS-SP-75 Gr. W PHY-52, BW 12"S60	32	EA	20,155.26	6,44,968.42
2.67	ASTM A234, Gr. WPB (Charpy), BW 8"14.3	32	EA	17,468.00	5,58,976.00
2.68	ASTM A234, Gr. WPB (Charpy), BW 6"XS	32	EA	4,595.00	1,47,040.00
2.69	ASTM A234, Gr. WPB (Charpy), BW 4"XS	32	EA	2,530.44	80,974.05

=====

2.70	ASTM A234, Gr. WPB (Charpy), BW 2"S80	32	EA	1,150.85	36,827.08
2.71	ASTM A105, SW ¾"S160	32	EA	310.19	9,925.97
2.72	UNEQUAL TEES				
2.73	MSS-SP-75 Gr. W PHY-52, BW 12"x12"x8"S60 x 14.3	32	EA	30,640.19	9,80,486.15
2.74	MSS-SP-75 Gr. W PHY-52, BW 12"x12"x6"S60 x XS	32	EA	23,000.00	7,36,000.00
2.75	MSS-SP-75 Gr. W PHY-52, BW 12"x12"x4"S60 x XS	32	EA	22,108.00	7,07,456.00
2.76	ASTM A234, Gr. WPB (Charpy), BW 8"x8"x4"14.3x14.3x XS	32	EA	18,321.00	5,86,272.00
2.77	ASTM A234, Gr. WPB (Charpy), BW 6"x6"x4"S60xS60x XS	32	EA	4,856.80	1,55,417.60
2.78	ASTM A234, Gr. WPB (Charpy), BW 4"x4"x2"XSxXSxS80	32	EA	2,416.00	77,312.00
2.79	ASTM A420 Gr. WPL6, SW 2"x2"x¾"XSxXSx S160	32	EA	1,008.20	32,262.40
2.80	ASTM A105, SW 1½"x1½"x¾"S80xS80x S160	32	EA	923.67	29,557.33
2.81	ASTM A105, SW 1"x1"x¾"S80xS80x S160	32	EA	543.36	17,387.43
2.82	ASTM A420 Gr. WPL6, SW 2"x2"x¾"XS x XS x S160	32	EA	1,000.00	32,000.00
2.83	ASTM A350 GR. LF2, SW 1"x1"x¾"XS x XS x S160	32	EA	468.67	14,997.33

=====

2.84	WELDOLET				
2.85	ASTM A694 GR.F-52(Charpy), BW 12" x 4" S60 x XS	16	EA	4,742.79	75,884.65
2.86	ASTM A694 GR.F-52(Charpy), BW 12" x 2" S60 x S80	16	EA	1,701.72	27,227.53
2.87	ASTM A350 GR. LF2, BW(Charpy), BW 8" x 2" XS x XS	16	EA	1,577.50	25,240.00
2.88	ASTM A350 GR. LF2, BW 6" x 2"XS x XS	16	EA	1,616.11	25,857.78
2.89	SOCKOLET				
2.90	ASTM A694 Gr. F52 (Charpy), SW 12" x ¾" 3000#	16	EA	625.13	10,002.04
2.91	ASTM A105 (Charpy) , SW 8" x 1½" 3000#	16	EA	407.00	6,512.00
2.92	ASTM A105 (Charpy) , SW 8" x ¾" 6000#	16	EA	550.31	8,804.96
2.93	ASTM A350 GR. LF2, SW 6"x¾" 6000#	16	EA	598.18	9,570.82
2.94	ASTM A350 GR. LF2, SW 4"x1" 3000#	16	EA	1,051.41	16,822.56
2.95	ASTM A350 GR. LF2, SW 4"x¾" 6000#	16	EA	919.30	14,708.85
2.96	ASTM A105 (Charpy) , SW 2"x¾" 6000#	16	EA	641.75	10,268.00
2.97	REDUCER				
2.98	ASTM A234, Gr. WPB (Charpy) 8" x 6"XS x XS	32	EA	5,327.41	1,70,477.04

=====

2.99	ASTM A234, Gr. WPB (Charpy) 8" x 4"XS x XS	32	EA	2,663.70	85,238.52
2.100	ASTM A234, Gr. WPB (Charpy) 6" x 4"XS x XS	32	EA	1,997.78	63,928.89
2.101	ASTM A234, Gr. WPB (Charpy) 2" x 1½"S80 x S160	32	EA	400.00	12,800.00
2.102	ASTM A234, Gr. WPB (Charpy) 2" x 1"S80 x S160	32	EA	400.00	12,800.00
2.103	ASTM A234, Gr. WPB (Charpy) 2"x ¾"S80 x S160	32	EA	820.86	26,267.39
2.104	Supply of Valves				
	Complete work of supply of valves including all taxes, duties, transportation and inspection charges but not limited to, the following items in accordance with relevant Specifications & relevant Data Sheets indicated in scope of work indicated in SCC, specification and instructions of EIC and as per all provisions of the CONTRACT DOCUMENT.				
2.105	Plug Valves				
2.106	BW 2"600#, D1A	64	EA	42,000.00	26,88,000.00
2.107	RF 2"600#, D1A	64	EA	41,142.86	26,33,142.86
2.108	SW ¾"800#, D1A	64	EA	10,240.00	6,55,360.00
2.109	BW 2"600#, D4A	64	EA	42,000.00	26,88,000.00
2.110	RF 2"600#, D4A	64	EA	43,000.00	27,52,000.00
2.111	SW ¾"800#, D4A	64	EA	16,125.00	10,32,000.00

=====

2.112	Ball Valves				
2.113	2", BW, FB, D1A	64	EA	25,000.00	16,00,000.00
2.114	2", BW, RB, D1A	64	EA	25,000.00	16,00,000.00
2.115	2", RF, FB, D1A	64	EA	25,000.00	16,00,000.00
2.116	2", RF, RB, D1A	64	EA	25,000.00	16,00,000.00
2.117	3/4", SW, FB, D1A	64	EA	4,599.88	2,94,392.56
2.118	2", BW, FB, D4A	64	EA	64,619.45	41,35,644.86
2.119	1", BW, FB, D4A	64	EA	32,309.73	20,67,822.43
2.120	3/4", BW, FB, D4A	64	EA	24,232.29	15,50,866.82
2.121	<u>ERECTION OF VALVES</u>				
	Handling including lifting and transportation from COMPANY's warehouse to CONTRACTOR'S Stores and/or work site and installation of all types of valves, including assembly of valve accessories, (if any) by bolting, threading or welding, supply and insertion of gaskets, nuts & bolts, nipples, etc. at all elevations of pipe sleepers, supports or overhead on racks, equipments nozzle, skid & painting etc. supply of all consumables, manpower, equipment, etc. for completion of all works as per scope of work and as per drawings, specifications and instructions of Engineer-in-charge including servicing/ cleaning of valve wherever required.				
2.122	All types of Ball & Plug Valves including Stud Bolts and Gaskets				
2.123	8"	64	EA	12,086.67	7,73,546.67

=====

2.124	6"	64	EA	7,733.33	4,94,933.33
2.125	4"	64	EA	5,110.72	3,27,086.38
2.126	2"	80	EA	2,377.38	1,90,190.65
2.127	1"	80	EA	1,271.11	1,01,688.89
2.128	3/4"	80	EA	1,019.65	81,572.30
2.129	<u>PIPE SUPPORTS & OTHER STRUCTURES</u>				
	Supply, fabrication and erection of all types of pipe supports like clamps, saddle, guide stops, cradles, turn buckles, anchors, T-posts; stockade/ trestle and pipe bridge for overhead piping; frames for canopy, approach ladders and platforms, crossover, cable tray supports, etc. including painting suitable for highly corrosive area as per specification, labour and supervision & complete work as per drawings, specifications and instruction of Engineer-in-charge. (Bolts, nuts, washers, U-clamps etc. for supporting shall be supplied by the Contractor within the rates quoted. These items will not be measured and will not be paid seperately). The work is to be completed in all respect as per scope of work and specification.	10.00	MT	1,21,457.55	12,14,575.47
2.130	<u>RADIOGRAPHY</u>				
	Performance of radiographic inspection by gamma radiation as per scope of work and as per specifications in piping of all types and thickness including providing/hiring of all necessary equipments, supply of all consumables, and whatever else even though not expressly mentioned but required to perform the work as per specifications and instructions of Engineer-in-Charge (full circle re-radiography of the repaired joint and additional radiography necessitated due to poor performance of contractor's welder shall be carried out by the Contractor at his own cost and shall not be paid extra by Company). Radiographs shall be submitted to the Engineer-in-Charge for acceptance, whose decision shall be final and binding.				
2.131	8"	240	EA	1,068.12	2,56,349.09

=====

2.132	6"	240	EA	981.03	2,35,446.15
2.133	4"	240	EA	711.45	1,70,747.43
2.134	2"	240	EA	439.77	1,05,544.32
2.135	1"	240	EA	219.88	52,772.16
2.136	3/4"	240	EA	164.91	39,579.12
2.137	<u>ERECTION OF VESSELS, SKIDS & EQUIPMENTS</u>				
	Handling, including lifting, transportation from Company's stores to Contractor's work-shop for fabrication or/ and to worksite for field fabrication, assembly of parts/ sub-assemblies, erection for all vessels, equipments supplied by company above ground/ underground at all elevation/ depth, fixing of foundation bolts, welding wherever required, aligning, grouting, hooking-up, cleaning and flushing by water draining, drying by compressed air, providing all mountings, ancilliary, enabling works as required and completing in all respect as per drawings, specification and instruction of Engineer-in-charge. Contractor's scope shall include supply of all material and accessories including but not limited to any fixtures, clamps, gasket, nut bolts, finish coat of painting including rub down & touch up of shop primer/ paint scrapping of shop primer/ paint and further their painting after application of primer as per specification, wherever required by Company.				
2.138	Metering Skids, Flow Meters, Panles	100	MT	30,735.92	30,73,591.55
3.0	CIVIL WORKS				
3.1	TOPOGRAPHICAL SURVEY				
	To carry out detailed Topographic Survey covering specified plots/area of Despatch/Recieving Station, Tap-Off's and SV Stations and any other locations from approved agency and as directed by Engineer in Charge using survey instruments and giving complete details in the form of drawings (in the scale of 1:100) and reports in 4 copies on white paper sheets and CAD output on CD/DVD all complete as per specifications, drawings and direction of the Engineer-	12,000	M2	8.22	98,603.39

=====

	in-Charge.				
	Note :- 1. Tentative Number of Plots for Topographical Survey is 9 Nos. 2. Area of plot shall be surveyed up to 5m beyond plot boundary and up to approach road on front side of the plot. 3. Number of trees along with type and girth area of plot shall be given. 4. HFL of plot shall be reported. 5. To be read along with relevant survey TS.				
3.2	GEOTECHNICAL INVESTIGATION IN PLOTS				
	Carrying out complete Geotechnical Investigation for 10m depth or as specified by Engineer-In-Charge for plots of Receiving Terminal/SV Station /IP Station/Despatch Station or any other plot as per direction of Engineer-In-Charge as enlisted in the tender in scope of work including providing borehole location coordinates, manpower, tools, tackles, materials, survey equipments, drilling rigs, soil testing equipment, other equipments, other support facilities necessary for the survey and associated work and submitting Final Geotechnical Report (along with the soft copy) incorporating all field and laboratory data and recommending the type of foundation and the safe bearing pressure for the proposed sites, Drawings, Data etc. (One Lot) in an approved format drawings, approved QAP, implementation schedule and other provisions of the Tender Document and instructions of the Engineer-in-charge.				
	Conducting Geo-technical survey as above and providing recommendations for cast-in- situ skin friction end bearing 500 mm dia pile along with calculation of capacity of piles. Target compressive strength shall be considered as 30 T and bore log shall be extended to further depth if so needed.				
3.3	By Boring of minimum 150 mm dia boreholes upto a max. depth as specified or refusal strata (REFUSAL means when N> 100 for 30 cms of penetration) in all type of soil.	480	RM	1,953.15	9,37,512.00
3.4	Field Investigations				
3.5	Conducting Standard Penetration Tests in Boreholes as specified as decided by EIC	240	EACH	617.05	1,48,092.63
3.6	Collecting 100 mm dia undisturbed sample from boreholes as specified as decided by EIC.	16	EACH	402.14	6,434.29

3.7	Collecting Disturbed samples from Bore Holes	240	EACH	217.71	52,250.32
3.8	Ground Water level	240	EACH	240.31	57,673.47
3.9	Conducting the following laboratory tests in NABL or equivalent accredited laboratory as per ISO/IEC 17025				
3.10	Atterberg's Limit (Liquid Limit & Plastic Limit)	240	EACH	401.94	96,464.52
3.11	Natural Moisture Content	240	EACH	325.81	78,193.55
3.12	Bulk and Dry Density	240	EACH	338.71	81,290.32
3.13	Specific gravity and Void ratio	240	EACH	338.71	81,290.32
3.14	Grain Size Analysis and IS Classification	240	EACH	643.04	1,54,328.57
3.15	Direct Shear Test	240	EACH	1,500.00	3,60,000.00
3.16	Tri Axial Shear Test	240	EACH	1,759.49	4,22,278.48
3.17	PLATE LOAD TEST				
	Cyclic Plate Load Test at a depth of 1.5m in accordance with IS:1888 & IS:5249 including all equipment & accessories, digging of test pit and filling the pit with proper compaction after completion of the test.	5	EACH	18,285.71	91,428.57
3.18	SITE CLEARANCE				
3.19	DEMOLITION OF R.C.C./BRICKS/STONE MASONRY				
	Site clearance by demolition of R.C.C./PCC/Brickwork/Stone Masonry/Stone Soling, Flexible pavements etc. along with removing the debris and disposal of unserviceable material to any lead and staking of serviceable materials, handing over serviceable material to concerned	5	CUM	2,114.37	10,571.84

=====

	department if required as per technical specifications and direction of Engineer-in-charge.				
	Note:				
	1. Rate includes cost of all labour, tools, tackles, hire charges, royalties, levies, leads, loading/unloading, transportation, water, electric power, illumination etc. complete in all respects as per scope of work, detailed construction drawings, technical specifications and direction of Engineer-in-charge.				
	2. Demolition of RCC/PCC/Brick Masonry/Road will be paid in NET CUM after deductions for air voids as demolished.				
3.20	CLEANING VEGETATION				
	Cleaning bushes including uprooting of rank vegetation, green bush wood, trees and saplings of girth upto 30cms (measured at a height of 1m above ground), stacking the serviceable materials and disposal of the same including rubbish etc. upto any lead and all lift as per specification and direction of the Engineer-in-charge. (payment will be made for actual site clearance area only).	12,000	SQM	27.85	3,34,177.68
3.21	ANTI TERMITE TREATMENT				
	Material and labour for treating the top surface of filled earth using emulsion of Chlorpyrifos/Lindane E.C. 20% with 1% concentration at the rate of 05 litres of emulsion per square meter of surface. For treating the backfill in contact with foundation using chemical emulsion at the rate of 7.50 litres of emulsion per Sq M of vertical surface (area of surface in contact with backfill to be measured).	50	SQM	463.85	23,192.26
	NOTE: Contractor shall give at least 10 years performance guarantee for anti termite treatment works				
3.22	EARTH WORK IN EXCAVATION AND BACKFILLING				
	Earthwork in excavation for foundations in ordinary soils including soft rock / disintegrated rock in both dry and wet conditions including pumping and bailing out surface and subsoil water, shoring, strutting, slush removal including backfilling in all positions in layers of 300mm at all heights and depths as per drawings and specifications wherever required, in Foundation pits and other places with excavated suitable surplus earth including reclaiming from spoil heaps kept within the plot including dressing and levelling, watering and mechanical compaction etc.,transporting surplus unserviceable soil upto any lead and spreading in layers and as per				

=====

	specifications and direction of Engineer in charge. The Measurement for payment shall be for the theoretical volume only and it shall be the volume of the block of the excavation having maximum bottom dimension of the levelling course/PCC as per drawing and to actual depth.				
	For depth till 3.0 m	600	CUM	390.57	2,34,342.86
	Note:				
	1. The Contractor shall take into account in his rate, the provision for excess excavation required for necessary working space, cutting in slopes etc., which may be required for excavation and other allied works and refilling the side slopes and working space in layers as per requirement.				
3.23	SAND FILLING				
	Supplying and filling approved quality coarse sand/M sand (Zone II or Zone III) in foundation or under floor, trenches, pits and other places, at all locations in layers of 150 mm thickness including watering and ramming, all lead, lift and depth complete as per drawing and specification and direction of the Engineer.	10	CUM	1,332.38	13,323.78
	Note:				
	1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, cost of sand, right of way, cess, and backfilling using sand in all conditions, etc.				
3.24	PLAIN CEMENT CONCRETE				
3.25	Supplying and laying plain cement concrete of grade 1:2:4 (M 15) with stone aggregate 20mm down grade (including shuttering if required) in foundations, floors, roof screed, aprons, pits, drains and other mass concrete works, steps, coping of wall, sill etc., at all depths and heights/levels as per drawings, specifications and directions of the Engineer-in-charge.	236	CUM	7,836.21	18,49,344.91
	Note:				
	1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials, OPC/PPC cement, shuttering in all conditions etc. with all bye works and sundry works.				

=====

	2. In case of non availability of OPC Cement, PPC Cement can be used in place of OPC after approval from Engineer-in-charge. Suitable rate for rebate using PPC shall be submitted by the Contractor.				
3.26	Supplying and laying plain cement concrete of grade 1:3:6 (M 10) with stone aggregate 40mm down grade (including shuttering if required) in all levelling courses under foundations, mass concrete works, road works, chambers, trenches, floors and any other locations at all depths complete in all respects as per drawings, specifications and directions of the Engineer-in-charge.	60	CUM	7,360.11	4,41,606.86
	Note:				
	1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials, OPC/PPC cement, shuttering in all conditions etc. with all bye works and sundry works.				
	2. In case of non availability of OPC Cement, PPC Cement can be used in place of OPC after approval from Engineer-in-charge. Suitable rate for rebate using PPC shall be submitted by the Contractor.				
3.27	REINFORCED CEMENT CONCRETE				
	Providing and Laying in position Machine batched and machine mixed Design mix/ Ready mixed for Reinforced Cement Concrete work of grade M-25 using 20mm down size graded aggregate at all depths and heights using cement content as per approved design mix manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of RMC as applicable, including cost of centering, shuttering and admixtures in recommended proportions as per IS: 9103 to accelerate/retard setting of concrete (improve workability without impairing strength and durability) but excluding cost of reinforcement as per direction of Engineer-in-charge. Mechanical mixers with Hopper along with Weigh Batchers shall also be permitted for use at site with the approval of Engineer-In-charge to produce Design Mix Concrete of specified grade.	920	CUM	11,615.60	1,06,86,350.57
	Note:				
	1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as, minimum 43 grade OPC cement/PPC cement including sulphate resistant cement if required, coarse and fine aggregates, admixtures, other minor construction materials, testing of concrete, curing etc. with all bye works complete.				

=====

	2. The reinforcement shall be paid separately vide respective item.				
	3. In case of non availability of OPC Cement, PPC Cement can be used in place of OPC after approval from Engineer-in-charge. Suitable rate analysis for rebate along with mix design using PPC shall be submitted by the Contractor.				
3.28	REINFORCEMENT STEEL				
	Supplying, Fabricating and Fixing in position TMT Grade Fe 500D reinforcement conforming to IS1786 at all levels and positions including the cost of transport, straightening, cutting, bending, cranking, welding, provision of necessary chairs and spacers, preparation of bar bending schedule and getting the same approved by EIC etc., complete as per drawings and specifications and including cost of binding wire, labour, testing etc., all complete in all respects as per detailed construction drawings, technical specifications and direction of Engineer-in-charge. The chairs and spacer bars provided will not be measured for payment.	92	MT	85,868.62	78,99,912.94
	Note:				
	1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as reinforcement steel, binding wire etc. with all bye works and sundry works complete.				
	2. Chairs, Unauthorised Laps, Spacers, Binding wire, Wastage etc. shall be to contractor's account.				
3.29	DAMP PROOF COURSE				
	Providing 40 mm thick Damp proof course over plinth with cement concrete grade 1:1.5:3 using aggregate of 10 mm and down graded and mixing approved water proof admixture with cement as per manufacturer's specification including necessary formwork/ shuttering, one coat of hot bitumen of grade VG-10 over the top surface of Damp proof coarse and all necessary byeworks complete as per specification, drawing and as directed by the Engineer.	50	SQM	742.22	37,111.11

3.30	BRICK WORK				
	Providing and laying BRICK WORK straight or curved on plan to any radius using best quality bricks with frog/indent, conforming to sub-class A as per IS:1077 having crushing strength of not less than 50 kg/cm ² in cement mortar 1 :6 (1 Cement : 6 Coarse Sand) in all types of foundation and superstructure at all depths/heights including projections, pillars, parapets, ornamentals of any shape, cornices, all complete including cut work, curing, scaffolding, including filling of joints with Cement Mortar 1:6 and racking of joints, etc. as per specifications, drawings and directions of the Engineer.	200	CUM	8,844.32	17,68,864.97
	Note:				
	Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 43 grade cement (OPC/PPC), bricks, finishes, bitumen, other minor construction materials, shuttering, staging, masonry work, painting with bitumen on faces in contact with soil etc. as per requirement with all bye-works and sundry works complete as per drawings.				
3.31	AUTOCLAVED AERATED CEMENT BLOCKS				
	Providing and laying autoclaved aerated cement blocks masonry with 150mm/230mmmm thick AAC blocks in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for seperately).	20	CUM	8,142.13	1,62,842.67
3.32	INSERTS				
	Supplying, Fabricating, Fixing at all levels and positions Steel embedments/ Inserts like Plates, Angle, Channels, Anchor boxes, MS pipe Sleeves including threading etc., including two coats of approved quality Synthetic enamel paint over a primer coat on the exposed Surfaces wherever necessary, complete as per Drawings, Specifications and directions of the Engineer-in-charge. (Jigs, Templates and Fixtures will not be paid seperately).	5	KG	113.93	569.65
3.33	PLINTH PROTECTION				
	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	50	SQM	2,576.50	1,28,824.79

3.34	G.I.PIPES				
	Providing and fixing of following size of G.I. pipes (medium duty) as per IS 1239 complete with G.I. fittings and clamps including cutting by hack saw, bending by hydraulic machine, trenching and refilling etc. including all labour and material complete as per approved drawing and direction of EIC.				
3.35	100 mm nominal bore	10	RM	1,321.10	13,211.05
3.36	150 mm nominal bore	10	RM	1,777.44	17,774.42
3.37	PRE CAST COVERS				
	Providing, hoisting and fixing up precast reinforced cement concrete of M-25 grade (20mm nominal size) in trenches, pits, tanks and the like including the cost of required centering, shuttering (with smooth surface) complete but excluding cost of reinforcement.	2	CUM	11,935.64	23,871.28
	Note :-				
	1. The reinforcement shall be paid separately vide respective item.				
3.38	KHURRAS				
	Making Khurras 45cm x 45cm with average thickness of 50mm in PCC (1:2:4) using 20mm and down stone chips over PVC sheet 1m x 1m x 400micron, finished with 12mm cement plaster (1:3) and a coat of neat cement rounding the edges and making, finishing the outlet.	4	NOS.	527.46	2,109.82
3.39	GOLA				
	Providing gola 75 x75mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10mm and down gauge) including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :	100	RM	121.00	12,100.00
	In 75x75mm deep chase				
3.40	CONCRETE PIPES (NP3 TYPE)				
	Providing and laying non-pressure NP3 class (medium duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including trenching and filling complete as per direction of Engineer in charge.				
3.41	150 mm dia	5	RM	1,012.97	5,064.85

3.42	300 mm dia	5	RM	1,692.49	8,462.45
3.43	CONCERTINA COIL				
	Providing and fixing Concertina Coil fencing including Y-angles with Punched tape concertina coil 600mm dia 10 metre openable length (total length 90 m), having 50 nos. rounds per 6 m length, upto 3 m height of wall with existing angle iron Y- shaped placed 3 m apart and with 9 horizontal RBT reinforced barbed wire, stud tied with GI staples and GI clips to retain horizontal, including necessary bolts or GI barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(RBT)/spring core(2.5mm thick) wire of high tensile strength of 165 kg/sq.mm with tape(0.52mm thick) and weight 43.478gm/metre(cost of MS angle, CC blocks shall be paid separately)	150	RM	360.00	54,000.00
3.44	BOULDER SOLING				
	Providing and laying stone boulder soling with stone boulders of different sizes including packing filling interstices with smaller size stones dry and wet consolidation with moorum as coarse aggregate in foundation, trenches,pavements including ramming, consolidating with mechanical means and tamping etc. completed as directed at the site (Compacted thickness shall be measured for payment)				
	150mm thick of size 90-120mm	5	CUM	2,625.42	13,127.11
3.45	STONE AGGREGATE				
	Supplying, stacking and spreading of stone aggregate of size 53 mm to 22.4 mm at desired locations inside the plot over well compacted earth complete as per construction drawing and as directed by Engineer-in-charge.	5	CUM	2,815.34	14,076.71
3.46	PLASTERING IN DRAINS				
	Providing and applying 15mm thick cement plaster 1 : 4 (1 cement : 4 medium coarse sand) smooth finish (1 neat coat of cement) with waterproofing compound at all depths & heights on faces of walls, pillars, projection, bands, etc., including raking out joints if any left out, necessary dabbing, curing, scaffolding complete at all heights as per specification and drawings.	200	SQM	332.99	66,598.97

=====

	Note:				
	Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 43 grade cement (OPC), coarse sand and other minor construction materials as per requirement with all bye-works and sundry works complete as per drawings.				
3.47	JOINT FILLER				
	Providing and filling expansion joints in boundary wall with 25mm thick bitumen impregnated fibre board conforming to IS 1838 including cost of primer all complete.	50	RM	190.00	9,500.00
3.48	CONCRETE PAVEMENT				
	Providing and laying reinforced cement concrete pavement 150 mm thick in M-25 grade with 20 mm and down grade crushed stone aggregate in pavement, including earthwork in excavation, preparation of base (i.e. compacted subgrade, 200 thk sand and 100 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 sand mix filler material 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.				
	150mm thick in Pavements of Process Area (Type - I)	30	SQM	2,571.43	77,143.02
	Note :-				
	1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials, providing and fixing reinforcement steel, shuttering, earthwork in excavation and backfilling using serviceable earth in all conditions, preparation of base, etc. with all bye works and sundry works. Cost of works towards pipe supports & sleepers being raised from pavement is covered under respective RCC items.				

3.49	EXPANSION JOINTS				
	Providing and laying 40 mm thick 200 mm deep expansion/separation joint along the periphery of pedestals, flooring with approved bituminous impregnated fibre board conforming to IS 1838 including sealing the top 20mm depth with bituminous mastic sealant at all heights and locations with all bye-works complete as per drawing, standard practice as directed by Engineer.	50	RM	408.92	20,446.07
3.50	PAVER BLOCK FLOORING				
	Supplying and placing in position as per approved pattern of Cement Concrete Inter locking/grass jointed paver block 60 mm thick of approved shape, rough finish, M-30 strength of approved brand laid over the sand bed of minimum 100 mm thick. The CC interlocking blocks to be of uniform Grey colour or as approved by EIC complete in all respects as per scope of work, detailed construction drawings, technical specifications and directions of the Engineer-in-charge.	600	SQM	1,504.79	9,02,872.99
	Note :-				
	1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such paver blocks, sand, earth work in excavation in cutting earth in all conditions, shuttering with all bye works and sundry works.				
	2.PCC below paver shall be paid separately vide respective item.				
3.51	KERB STONE FIXING				
	Providing and fixing precast concrete Kerb stones (125 wide X 300 deep approx.) of M-30 grade or equivalent of approved make and shape at or near ground level as per approved pattern and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand) including the cost of required centering, shuttering and finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) wherever required over 75 mm thick PCC M-10 levelling course, complete in all respects as per scope of work, detailed construction drawings, technical specifications and directions of the Engineer-In-Charge.	100	RM	769.77	76,977.27
	1. Rate to include all labour, tools, tackles, factory manufactured & steam cured Kerb Stones, shuttering, transportation, water charges, earth work if any, PCC etc complete.				

=====

3.52	CPVC PIPES - EXPOSED WORK				
	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes of approved make having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge - Exposed Work.				
3.53	25 mm nominal bore	25	RM	357.96	8,948.94
3.54	15 mm nominal bore	10	RM	270.85	2,708.49
3.55	CPVC PIPES - CONCEALED WORK				
	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes of approved make having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. - Concealed Work including cutting chases and making good the walls etc.				
3.56	25 mm nominal bore	10	RM	493.71	4,937.06
3.57	15 mm nominal bore	10	RM	385.73	3,857.32
3.58	SINTEX OR EQUIVALENT HDPE WATER TANK				
	Providing and fixing 1000 litres capacity SINTEX or equivalent approved HDPE water tank ISI : 12701 marked with PVC fittings for inlet, outlet, over flow, scour float valve, air lock release pipe, connections of required size and diameter including connections and fixing the tank on roof at all heights with all bye-works complete as per manufacturer's specification and direction of the Engineer. (Support of tank on Brick/RCC/PCC will be paid under relevent items)	1	EACH	10,717.72	10,717.72
3.59	PILING UNDER FOUNDATION				

=====

	Providing and fixing in position "Bored cast in situ RCC piles skin friction/end bearing type upto 500 mm diameter and 30 T capacity in M 25 Concrete " excluding the cost of reinforcement and getting the designs of same approved by IGGL / PMC including driving in ground at specified locations by using standard tools for constructing a rigid support base for supporting the pipe line, boundary wall, buildings etc including all bye works, complete as per drawings, specification and directions of the Engineer-in-charge.	50	RM	3,720.48	1,86,024.23
	Notes-1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials, shuttering, providing and fixing reinforcement steel testing etc. with all bye works and sundry works and consumables.				
	2. Reinforcement will be paid seperately in respective SOR item. For vertical load test an amount of Rs. 50,750.00 shall be paid extra for each case.				
3.60	EARTH WORK IN FILLING				
	Controlled earth filling with good quality imported earth from approved source under floors and other places with special compaction to achieve dry density of 95% standard proctor density as per instruction of the Engineer at all heights/depths upto any lead transporting, depositing, compacting and dressing, trimming complete as desired in layers not exceeding 30cm including watering, consolidating by mechanical means as per specifications and instructions of the Engineer.	100	CUM	427.92	42,792.00
3.61	Providing and fixing of chain link fencing				
	Supply, fabrication and erection of structures such as angle iron post , Channel post,Strainer and strut,etc.with necessary holes for fixing the chain link fencing,site assembly and finally erection of structures at appropriate location including surface preparation with painting as per specification, including 2.4m high G.I. Chain link fabric fencing mesh size 50x50x3.15 mm dia, with 0.6 m heigh barbed wire (type-A) as per IS:278-1978 shall be made from two strands of galvanized steel wire of nominal dia 2.5 mm twisted together fixed on angle iron posts with GI staples, turn buckles,all necessary fitting etc, including strengthening with 4 mm dia wire Nuts bolts and washer complete in all respects.All work as per direction of the Engineer-In-Charge.	600	RM	3,254.13	19,52,476.08
3.62	Providing and fixing of chain link fencing gates				
	Supply, fabrication and erection of structures such as angle iron post , Channel post,Strainer and strut,etc.with necessary holes for fixing the chain link fencing,site assembly and finally erection of structures at appropriate location including surface preparation with painting as per specification,including 2.4m high G.I. Chain link fabric fencing mesh size 50x50x3.15 mm dia, with 0.6 m heigh barbed wire (type-A) as per IS:278-1978 shall be made from two strands of				

=====

	galvanized steel wire of nominal dia 2.5 mm twisted together fixed on angle iron posts with GI staples, turn buckles, all necessary fitting etc, including strengthening with 4 mm dia wire Nuts bolts and washer complete in all respects. All work as per direction of the Engineer-In-Charge.				
	2.0 M Wide gate	10	Nos.	22,420.45	2,24,204.55
3.63	Providing and fixing of chequered plate covers				
3.64	Supply, fabrication & erection of Display / Information / Warning Sign Boards				
	Supply, fabrication and fixing in position of steel sign boards fabricated from pipes, angles, flats section including 3 mm thick plate with necessary cleat, clamps or necessary fixing arrangement including primer and painting of approved colour as per specification including Alphabets of approved size and font and Logo to be painted on Display, informatary, warning sign board with day glow paint shall be completed as per standard detail of IGGL/as per direction of E/C including fixing at appropriate location, true alignment and embedded in PCC block. The work is to be completed in all respect as per direction of the Engineer-in-Charge (excluding PCC Block).	200	KG	141.28	28,256.23
3.65	FLOORING				
3.66	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building, all complete, with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand), laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade, including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge	50	SQM	3,465.97	1,73,298.47
3.67	Providing and laying vitrified floor tiles 1st quality of approved make (thickness as per approved manufacture's detail but not less than 7 mm) matching / same as the size and colour of flooring in skirting, riser, dados and wall facing (lining) and pillars using cementitious modified quick set tile adhesive, water based conforming to IS:15477 using 5kg adhesive per m2 area in average thickness of 3 mm, of approved make, laid to proper level and joints pointed with tile jointing compound of approved make including finishing and cleaning etc. complete as directed by the EIC.	300	SQM	1,845.01	5,53,503.37
3.68	Providing & laying approved make and colour heavy duty vitrified tiles in floors and skirting over 20 mm cement mortar bed 1:4 including cutting of tiles wherever required, pointing the joints in neat white cement with matching pigment, cleaning, washing, curing, etc., complete as				

	per specification and direction of the engineer.				
3.69	Size of Tile 300x300 mm and minimum thickness 12 mm	50	SQM	1,708.82	85,441.23
3.70	Providing and laying glazed/ matte finish ceramic tiles for Dado with a recycle content of 35-55% of Group - I classification, conforming to IS:13754 of approved colour at all levels and locations with necessary specials etc. using approved first quality tiles laid over and including minimum 12 mm thk. CM 1:3 backing or tile fixing adhesive with volatile organic compounds not exceeding 65 g/l mixed to cement paste used for fixing the tiles, joints filled with white cement mixed with matching shade of pigment etc. at all leads and lifts, complete with all byeworks as per specification and direction of Engineer Incharge.				
	In dado/skirting on 12 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)	50	SQM	1,921.15	96,057.61
3.71	FINISHING				
3.72	Providing 6 mm thick cement plaster 1:4 (1 cement : 4 sand) to ceiling of slabs, chajjas including drip course, bands, beams, columns, loft slabs, staircases, and any other location at all heights wherever required with all bye works dabbing, curing, scaffolding, including providing chicken mesh at junction of columns, beams etc., complete at all heights and levels.	5,000	SQM	221.51	11,07,545.45
	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections				
3.73	Providing and applying two coats of Expa Cool Premium Exterior Emulsion from British paints (Certified Green building product) or Exterior emulsion paint (Eco friendly paint with low Volatile Organic Compounds) of Asian paints or equivalent make of approved brand over a coat of approved primer consisting of volatile organic compounds less than 50g/L, at all heights and levels, including surface preparation, scaffolding at all locations and heights with all byeworks complete as per manufacturer's specification and direction of the Engineer Incharge.	2,500	SQM	188.43	4,71,083.89
3.74	Providing and applying two coats of acrylic oil bound washable distemper- Eco friendly paint with low Volatile Organic Compounds (not exceeding 50 g/L) over ceiling, of approved shade & make over one coat of approved cement primer consisting of volatile organic compounds less than 50g/L as per specifications and as directed by Engineer Incharge etc. complete.	2,500	SQM	140.29	3,50,725.66
3.75	Providing and applying wallcare Putty on plastered surfaces on internal walls for smooth and dry surface essential for painting, after removing all loosely adhering material from the wall surface. The substrate should be clean, free from dust, grease and loose materials. Dry and absorbent surfaces should be moistened with sufficient quantity of clean water. Apply the first	2,500	SQM	115.86	2,89,657.08

=====

	coat on already moistened wall surface from bottom to upward direction uniformly. After drying of first coat of putty just rub the surface gently with wet sponge or rub the surface very gently with the putty blade in order to remove the loose particles. Allow the surface to dry for atleast 3 hours and then apply second coat of putty. Leave the surface to dry completely. After drying of second coat remove marks if any with the help of moist sponge or rub the surface very gently with the putty blade. Leave the surface to dry preferably for overnight. The total thickness of the coats should be limited to maximum 1.5mm.				
3.76	Painting with synthetic enamel paint - Eco friendly paint with low volatile organic compounds (limit not exceeding 50g/L) over a coat of primer consisting of volatile organic compounds less than 50g/L of approved brand as per approved manufacturer's spec. to give an even shade Two coats of synthetic enamel paint on new work over one coat of zinc chromate primer.	1,000	SQM	140.38	1,40,382.41
3.77	ALUMINIUM WORK				
	Providing & fixing in position aluminium doors, windows, ventilators, louvres , fixed glazing, sliding/composite windows, aluminium rough ground etc. with extruded & integral colour powder coating with minimum 60 microns , Aluminium sections, Powder coated Aluminium beadings, Powder coated Aluminium profile panel sheets, manufactured to relevant I.S. codes & using minimum 2mm thick (or as specified) heavy sections from environmentally compatible products containing minimum of 15 to 25 % of recycled content and shall be manufactured within 500 kms from project site and make including cost of providing required no. of heavy duty stainless steel butt hinges, pivots, approved door and windows handles, EPDM Gasket, PVC/Neoprene Gasket Lining, Stainless steel screws, mastic filling, weather strips, tower bolts, nuts, washers, rollers etc. as required etc. all complete at all heights and as directed by the Engineer-in-Charge. The rate shall also include giving a coat of bitumastic paint on the aluminium surfaces in contact with masonry / concrete and closing the gaps around the frame and the adjoining surface with approved silicone sealant with volatile organic compounds content less than 250 g/l on both faces to achieve watertightness. All fitting shall be of matching colour powder coated aluminium sections				
	All doors, windows & ventilators shall have float glass of the following specifications SHGC - 0.25 to 0.3, U Value 3.8W/sqm-k or less, of approved make or / double side prelaminated particle board flat pressed three layer or graded wood particle board bonded with BWP type synthetic resin adhesive as per IS : 848 and prelaminated conforming to IS: 12823 Grade I Type II, in panelling(for doors) as per design				
	Composite sliding windows with fixed and openable portion, fixed to frame size min. 101.6mm X 44.45mm x 2.01mm, weight 1.605 kg/m (approx.) and 63.5mm x 38.1mm x 1.5mm, weight 0.861 kg/m min. as per requirement. Sliding shutters fixed to frame size 92mm X 31.75mm x 1.5mm min. & weight 1.060 kg/m min and 61.85mm x 31.75mm x 1.5mm, wt. 0.784 kg/m min as per requirement. Shutter side, bottom and interlock shall be 40mm x 18mm x 1.55mm wt.	1,000	SQM	7,615.93	76,15,932.42

	0547kg/m min., Frame for grill shall be 63.5mm x 38.1mm x 2mm & wt. 1.054kg/m. Windows shall have 5.5 mm thick float glass. The sliding fittings/ accessories shall be derailing wheels with Nylon brackets with SS pin – 2 Nos. per shutter. The lock handle, safety plates, nylon antilift and joinery shall be as per specification.				
3.78	FALSE CEILING				
3.79	Providing and fixing false ceiling at all heights with integral densified calcium silicate reinforced with fibre and natural filler false ceiling tiles of Size 595X595 mm of approved texture, design and patterns having NRC (Noise Reduction Coefficient) of 0.50 (minimum) as per IS 8225:1987, Light reflectance of 85% (minimum), non combustible as per BS:476 (part-4), fire performance as per BS:476 (part-6 & 7), humidity resistance of 100%, thermal conductivity <0.043 W/m K as per ASTM 518:1991, in true horizontal level suspended on interlocking metal powder coated T-Grid of hot dipped galvanised iron section of 0.40mm thick on Silhouette profile, rotary stitched double webbed white with 6mm reveal profile (white/black), comprising of main -T runners of size 15x42mm of length 3000mm, cross-T of size 15x42mm of length 1200mm and secondary intermediate cross-T of size 15x42mm of length 600mm to form grid module of size 600x600mm, suspended from ceiling using galvanised mild steel items (galvanised @ 80 grams per sqm) i.e. 50mm long, 8mm outer diameter M-6 dash fasteners, 6mm dia fully threaded hanger rod upto 1000mm length and L-shape level adjuster of size 85x25x2mm. Galvanised iron perimeter wall angle of size 22x19x0.40mm of length 3000mm to be fixed on periphery wall/ partition with the help of plastic rawl plugs at 450mm center to center and 40mm long dry wall S.S screws. The work shall be carried out as per directions of the Engineer-in-Charge. With 15mm thick integral densified micro edge light weight calcium silicate false ceiling tiles.	200	SQM	1,793.44	3,58,688.03
3.80	Providing and fixing in position 12.5 mm thick gypsum board false ceiling conforming to IS 2095 -1982 with approved G.I Frame work and hangers including openings for lights, air conditioning grills, fire detectors, nozzles, recess for hanging blinds,etc. as per specification and description complete. Rate shall include vertical as well as horizontal surfaces and actual 'seen' surface of horizontal and vertical will be measured and paid for. Layout and design of false ceiling with cutouts & decorative mouldings etc.to be approved by EIC	200	SQM	1,350.30	2,70,059.23
3.81	MISCELLANEOUS				
3.82	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion (Single socketed pipes). 110 mm diameter	50	M	429.81	21,490.64

3.83	Waterproofing System for Roof Slab Surface Preparation: remove all surface laitance and contamination free from loose aggregate or other sharp protrusions with fairly smooth finish by wire brush and grinding method and surface shall be DRY for application of single component pitch modified polyurethane cures by reaction with atmospheric moisture to give a tough elastomeric waterproof membrane. System : Providing and applying 1.2 mm thick roller applied single component Bitumen Modified Polyurathene coating, having elongation capability of 450% as per ASTM D412, having Tensile strength 1.5N/mm ² as per ASTM D 412, Tear Resistance of 15N as per ASTM D 624 and having shore A Hardness 50 as per ASTM D 2240. Waterproofing treatment to be provided after proper surface preparation as per manufacturer specification and making of coving at the junction of horizontal and vertical surface by Polymer Modified Mortar and treatment of crack if any on the surface by ow viscous epoxy resin injection. screed to slope : Providing and laying 50mm thick screed concrete of M20 grade mixed with approved water proofing compound like Integral waterproofing compound confirming to IS 2645) over the coated surface including application of 300 GSM geotextile layer over the waterproofing.	250	SQM	1,227.26	3,06,814.17
4.0	INSTRUMENTATION WORKS				
4.1	FIELD INSTRUMENTS				
4.2	Supply of Pressure Gauges (inclusive of supply of necessary piping materials/tubings, alongwith all necessary valves & fittings, impulse lines/manifolds as per installation standard)	32	Nos.	10,399.91	3,32,797.12
4.3	Installation, testing, calibration and commissioning of Pressure Gauges (inclusive of necessary piping materials/tubings, alongwith all necessary valves & fittings, impulse lines/manifolds as per installation standard)	32	Nos.	2,592.85	82,971.11
4.4	Supply of Pressure Transmitters (inclusive of supply of yoke, supports for impulse lines (wherever required), SS manifolds/ SS impulse lines & SS valves & fittings with supports, as per installation standard.	16	Nos.	63,214.22	10,11,427.59
4.5	Installation, testing, calibration and commissioning of Pressure Transmitters as per tender document (inclusive of yoke, supports for impulse lines (wherever required), SS manifolds/ SS impulse lines & SS valves & fittings with supports, as per installation standard.	16	Nos.	7,270.00	1,16,320.00
4.6	Supply of Temperature Transmitters (inclusive of supply of yoke, supports, etc)	16	Nos.	40,549.42	6,48,790.69
4.7	Installation, testing, calibration and commissioning of Temperature Transmitters (inclusive of yoke, supports, etc)	16	Nos.	3,858.75	61,740.00

4.8	Supply of RTD (Skin Type) (inclusive of supply of mounting pad, yoke, supports, etc as per installation standard)	16	Nos.	12,958.40	2,07,334.34
4.9	Installation, testing, calibration and commissioning of RTD (Skin Type) (inclusive of mounting pad, yoke, supports, etc as per installation standard)	16	Nos.	4,271.14	68,338.19
4.10	FULLY WIRED PANELS ALONGWITH ACCESSORIES				
4.11	Design, Engineering and Supply of Fully wired Control Panel cum TIC Panel (wall mounted type, 1200 (mm) H x 800 min.(mm) W x 450 min. (mm) D) alongwith all accessories including valve auto-closure as per tender Documents. All the signals of electrical, instrumentation, RTU/SCADA, CP, metering skid, etc. are to be interfaced through this Panel and necessary TBs alongwith accessories shall be provided for the same.	5	Nos.	4,89,450.68	24,47,253.38
4.12	Installation, testing and commissioning of Fully wired Control Panel cum TIC Panel (wall mounted type, 1200 (mm) H x 800 min.(mm) W x 450 min. (mm) D) alongwith all accessories including valve auto-closure as per tender Documents. All the signals of electrical, instrumentation, RTU/SCADA, CP, metering skid, etc. are to be interfaced through this Panel and necessary TBs alongwith accessories shall be provided for the same.	5	Nos.	33,379.85	1,66,899.23
4.13	Panel Mounted Items (rest of the items are to be included in above panels supply)				
4.14	Supply of Barriers cum Signal Distribution Card	96	Nos.	12,623.51	12,11,856.99
4.15	Installation, testing and commissioning of Barriers cum Signal Distribution Card	96	Nos.	1,441.75	1,38,408.19
4.16	FREE ISSUE ITEMS				
4.17	SS Tube Connection, Testing and Commissioning of Gas Actuated Ball Valves (AV) /HOV including Installation of SS tubes and fittings, manifold/ isolation valves, sockolets etc along with supports for impulse lines (wherever required), hydraulic testing, hydraulic oil (if required), functional test, painting of supports as per std, etc for each Gas Actuated Ball Valves (AV) /HOV as per the direction of Engineer-In Charge.	16	Nos.	19,585.60	3,13,369.57
4.18	Testing & Commissioning of Metering Skids (alongwith Metering Panels, free issued cables, etc.) including all manpower, tools & tackles, equipments, consumables, etc. required as per direction of Engineer-in-charge. Scope also includes installation of metering panel & laying of free issued cables.	16	Nos.	43,571.43	6,97,142.86
4.19	Installation of Junction Boxes including Supply of Junction Boxes with Glands, plugs for unused entries, supply, fabrication and installation of supports, plugging of unused entries and painting.				

4.20	Supply of Explosionproof electrical junction boxes along with supply of yoke, support , Stand, Glands, plugs, etc. for 6 pair/ 6 Triad/ 12 Core cable entry	16	Nos.	19,434.15	3,10,946.38
4.21	Installation, testing and commissioning of Explosionproof electrical junction boxes along with yoke, support , Stand, Glanding, Termination & loop checking for 6 pair/ 6 Triad/ 12 core cable entry	16	Nos.	6,584.72	1,05,355.59
4.22	Supply of Canopies fabricated out of powder coated MS for electronic transmitters including supply, fabrication of support and reflective painting.	32	Nos.	4,045.69	1,29,462.20
4.23	Installation, testing and commissioning of Canopies fabricated out of powder coated MS for electronic transmitters including installation of canopy with support and reflective painting.	32	Nos.	1,253.25	40,104.03
4.24	Supply, laying, testing of FRLS cables (control, signal, power, triad cables) including supply of all required cable glands (Explosion proof double compression type) and consumables like ferrules, clamps, PVC tubes, aluminium/SS tag plates etc., clamping , ferruling, glanding of the cables, termination at both ends, including shield/drain/ communication wire, providing/fixing of identifying tags and megger testing and loop testing . Supply and installation of GI pipes / Hume pipes (in road crossings, buildings, etc.) and PVC pipes (for crossing of electrical cables) is included in the scope of cable laying but exclusive of supply & erection of GI Perforated tray.				
4.25	Supply of 1 P x 1.5 mm ² (Type I), Signal Cable	3,200	M	110.27	3,52,879.90
4.26	Installation, testing and commissioning of 1 P x 1.5 mm ² (Type I), Signal Cable	3,200	M	41.38	1,32,406.08
4.27	Supply of 6 P x 0.5 mm ² (Type II) Signal Cable	320	M	301.59	96,508.17
4.28	Installation, testing and commissioning of 6 P x 0.5 mm ² (Type II) Signal Cable	320	M	45.81	14,660.17
4.29	Supply of 4C x 1.5 mm ² - Quad Cable (Type-I) , RTD Cables	320	M	235.75	75,438.45
4.30	Installation, testing and commissioning of 4C x 1.5 mm ² - Quad Cable (Type-I) , RTD Cables	320	M	46.75	14,959.79
4.31	Supply of 12C x 1.5 mm ² (Type - I) , Control Cable	3,200	M	373.22	11,94,315.24
4.32	Installation, testing and commissioning of 12C x 1.5 mm ² (Type - I) , Control Cable	3,200	M	64.61	2,06,755.12

=====

4.33	Supply of 3C x 1.5 mm ² , (Type - I)Control Cable	4,000	M	185.77	7,43,086.29
4.34	Installation, testing and commissioning of 3C x 1.5 mm ² , (Type - I)Control Cable	4,000	M	42.79	1,71,152.59
4.35	Supply of 1 TRIAD x 1.5 mm ² (Type I) , Signal Cables	320	M	146.06	46,738.42
4.36	Installation, testing and commissioning of 1 TRIAD x 1.5 mm ² (Type I) , Signal Cables	320	M	43.83	14,027.03
4.37	Supply of 6 TRIAD x 1.5 mm ² (Type IV) , Signal Cables	320	M	433.94	1,38,861.79
4.38	Installation, testing and commissioning of 6 TRIAD x 1.5 mm ² (Type IV) , Signal Cables	320	M	86.42	27,655.93
4.39	Supply of 3C x 6 mm ² Power Cable (Copper Conductor)	320	M	246.71	78,947.37
4.40	Installation, testing and commissioning of 3C x 6 mm ² Power Cable (Copper Conductor)	320	M	67.79	21,693.95
4.41	Supply of RS-485 serial communication cable (2P x 1.0 mm ² , Type-II)	320	M	125.58	40,184.89
4.42	Installation, testing and commissioning of RS-485 serial communication cable (2P x 1.0 mm ² , Type-II)	320	M	36.11	11,555.56
4.43	Supply of Multi cable Transit blocks for all the cables entering in control room for all the Terminals of PART-A (including 100% spares)	16	Set	1,67,680.00	26,82,880.00
4.44	Installation , testing and commisioning of Multi cable Transit blocks for all the cables entering in control room for all the Terminals of PART-A (including 100% spares)	16	Set	26,689.09	4,27,025.45
4.45	Supply and erection of prefabricated perforated GI trays of thickness 2 mm including tees, bends and elbows, supply, fabrication and erection of required supports and painting of supports with one coat of primer as per IS:2074 and 2 coats of finished paint including supply of paint as per std. and direction of Engineer In-Charge.				
4.46	Supply of 60 mm wide X 30 mm high	1,600	M	278.91	4,46,262.73
4.47	Installation, testing and commissioning of 60 mm wide X 30 mm high	1,600	M	81.94	1,31,111.60

4.48	Supply of 100 mm wide X 30 mm high	1,600	M	365.12	5,84,199.52
4.49	Installation, testing and commissioning of 100 mm wide X 30 mm high	1,600	M	84.62	1,35,385.66
4.50	Supply of 200 mm wide X 30 mm high	1,600	M	538.11	8,60,981.24
4.51	Installation, testing and commissioning of 200 mm wide X 30 mm high	1,600	M	140.04	2,24,060.03
4.52	Supply of 300 mm wide X 30 mm high	1,600	M	702.97	11,24,755.67
4.53	Installation, testing and commissioning of 300 mm wide X 30 mm high	1,600	M	124.34	1,98,937.35
4.54	Excavation of trenches for burying the cables, preparation of same for laying of cable, filling with river sand, laying of brick, back filling and compacting of the excavated earth, cable route markers, etc. as per specifications including supply of sand and bricks and removal of surplus earth as per instructions of Engineer-in-Charge. Size of Trench : 600 mm (Width) X 675 mm (Depth)	2,400	M	602.49	14,45,987.88
4.55	EARTHING				
4.56	Supply, Laying, testing and Termination of 6 sqmm Copper Wire for instrumentation earthing (in tray and conduits as required) as per site requirement as and where required for 16 Nos. of stations	1	Lumpsum	1,78,363.64	1,78,363.64
4.57	Telecommunication Work related to OFC Network has to be carried out by the Bidder as defined in Scope of Work of Job specification, other specifications, other provisions of Contract and instructions of Engineer-in-Charge including but not limited to followings works. For all supply, the scope covers design, manufacturing, factory testing, inspection, packaging, forwarding, transportation, insurance, handling and storage at site etc. .				
4.58	SUPPLY OF OFC & ACCESSORIES (as per Technical specifications such as IEC 60092-3, IEC 60502, ISO 9001, ISO 9003, ISO 9004, EIA TIA-455, EIA TIA-492AAA-A, EIA TIA-492AAA, ITU-T G650, ITU-T G651, ITU-T G652, ITU-T G655, Telecordia GR-20, etc).				
4.59	Supply of 24 fibre composite SM Optical fibre cable (6 Fibre G-655 & 18 Fibre G-652D) of 2000 Meter $\pm$ 2.5 % cable drums (Qty as per pipeline length with spare) as per the Technical Specifications as stated above (Shorter length drum (less 2 KM - 2.5 %). Any additional necessary requirements due to shorter length as per TS /Scope of work is in vendor scope.	2,000	Meter	98.11	1,96,214.95

4.60	Supply of Jointing Closures (suitable for 24 Fibre OFC), including all accessories	20	Nos.	6,959.82	1,39,196.33
4.61	Supply of Permanently Lubricated Telecom HDPE Duct & Accessories as per TECHNICAL SPECIFICATIONS such as IS 2530, IS 4984, IS 7328, IS 9938, IS 12235, IS 14151, ASTM D 1693, etc.				
4.62	Supply of 40 mm, permanently lubricated HDPE Telecom DUCT (1000 meter drum), Factory Acceptance Testing as per specification. (Qty with spares) Supply of spare HDPE accessories Plastic Couplers (PC), End Plugs (EP), Cable Sealing Plugs (CSP), End Caps (EC) etc suitable for supplied Duct (Qty as PC-10 nos, EP-10 nos,CSP-10 nos, EC-10 nos).	11,500	Meter	66.26	7,62,039.77
4.63	Erection of HDPE Duct as per specification				
	Installation of 40mm OD, permanently lubricated HDPE ducts, in same pipeline trench, direct buried or cased crossing through CS conduit (2 duct in cased crossing) in all type of soil & terrain, all work as define in mainline work, for terminal area or non pipeline area - excavation, padding, backfilling, Laying of common warning mat/ mesh (as supplied for main line), cleaning and sealing of ducts, for river crossing additional blowing pit at both end of the river bank, jointing of HDPE conduit, supply and installation of all erection accessories as required, Testing of laid permanently lubricated HDPE ducts, rectification if required, cleaning and sealing of ducts at the end after testing, preparation of report, joint location marking in CAS, GPS location marking of each coupler, final acceptance / Handing over of the same to client, Drawings and documentation all complete as per specifications provided in the bid document. (Scope also includes Supply of HDPE accessories required including Plastic Couplers (PC), End Plugs (EP), Cable Sealing Plugs (CSP), End Caps (EC) etc suitable & sufficient for supplied Duct, complete in all respect as per specification and as per direction of EIC). (This duct is for blowing of 24 F for total length of pipeline as per spec. and drawing)	11,500	Per Meter of Trench Length	21.96	2,52,493.00
4.64	Supply of OFC Blowing pits / Jointing pit (RCC pit as per instruction of EIC & at every 1 KM distance for BP and every 4 KM for JP, at 1 meter away from the main pipeline), including sand etc all complete as per spec for all planned BP/JP. Any unpanned BP/JP will not be paid.	20	Nos.	16,776.98	3,35,539.51
4.65	Blowing / Laying of Optical Fiber Cable				
4.66	All activities pertaining to Blowing / Laying of optical fiber cable in same pipeline trench inside 40 mm HDPE telecom duct (after testing of OFC drum at site), through CS conduits at crossing, testing of OFC before Blowing/laying, cable sealing etc. using all materials required complete as per specifications and drawing provided in the bid document & as per direction of EIC. (spare loop of 10 Meter at Blowing Pit, 20 Meter at Jointing Pit & 15 Meter at each station on wire-mesh (if applicable) shall be provided- No payments for laying shall be made for these spare loops).The optical fibre cable shall be as per Technical specification as mentioned above	11,500	Per Meter of Trench Length	45.86	5,27,413.26

=====

	in Clause A.0.				
4.67	Supply & installation of 300 dia OFC cable markers at all pipeline warning markers locations on same pipeline markers / KM marker / directional marker post as per specifications provided in the bid document and direction of Owner/Consultant.	20	Nos.	3,019.37	60,387.46
4.68	Splicing, Jointing of optical fiber cable , final Jointing / splicing, Testing of OFC after jointing all completed as per specifications & drawing provided in the bid document and as per instruction of EIC.	20	Nos.	7,252.66	1,45,053.16
4.69	Supply and installation of Joint Marker at all jointing locations all complete as per spec., drawing provided in the bid document and the direction of consultant.	20	Nos.	6,420.16	1,28,403.23
4.70	Supply, Installation & Commissioning of Electronic Marker System as per specification , test certificate and documents etc. consisting of :				
4.71	Supply of set of FTC (in & out) (approved Make) with zero dB connectors & wiremesh (structural size 1.5 Mtr x 1 mtr and mesh size 15 cm x 15 cm) and other accessories for termination of OFC - 24 fibre in the equipment room (at all control room locations) (tentative). At common locations such as SV, IP; contractor has to provide FTC for 48 F with Zero dB connector for both direction OFC termination as per channeling plan. The channeling plan will be provided to succesful bidder during detailed engineering.	5	Nos.	25,450.14	1,27,250.68
4.72	Installation of FTC for OFC termination (in and out)(approved Make) with zero dB connectors, installation of wiremesh (structural size 1.5 Mtr x 1 mtr and mesh size 15 cm x 15 cm) and other accessories for termination of OFC in FTC including all the items required for installation of FTC.	5	Nos.	19,441.56	97,207.79
5.0	ELECTRICAL WORKS				
5.1	Supply, installation, testing, commissioning of power distribution board (PDB) and Lighting Distribution Board (LDB) :				
5.2	415 V, 30 KA for 1 Sec single front type indoor PDB-1 to receive input power at DT & IP station consisting of bus bar chamber, cable alley, 250 Amp incomer TPN MCCB (with LSIG & Shunt trip) & 5 nos. 100 Amp TPN MCCB, 5 nos. 63 Amp TPN MCCB, 5 nos. 32 Amp TPN MCB, 8 Nos 20/16 Amp TPN MCB & 10 Nos 20/16 Amp DP MCB outgoing complete with wiring, indication lamp, ammeter, voltmeter, MFM (Multi Function Meter) etc including all labour and materials with operating mechanism, all accessories, mandatory spares as per specification, auxiliaries etc complete in all respects as specified in technical above. All MCCBs shall have LSIG protection.	5	Nos.	6,98,732.69	34,93,663.47
5.3	LIGHTING DISTRIBUTION BOARDS				

5.4	Supply, Installation, testing, and commissioning of 415V/240V lighting/power panels, Surface/Recess mounting type in weather/flame proof (with hinged cover) sheet steel enclosure of approved make having 4 Pole MCCB(LSIG)/RCBO as incoming and SP/DP/TP MCB (9KA type) for out going circuit complete with wiring, indication lamp, ammeter etc including all labour and materials as per specification and the direction of Engineer-in-charge.				
5.5	Surface/Recess mounted Lighting Panel (I/E-LDB) for Building Lighting consisting of 2 nos. 32 Amp (100mA sensitivity) 4 Pole RCBO as incomer(Grid+Inverter supply) along with two isolated Cu busbar and 10 Nos. 10A DP MCBs & 10 Nos. 16A DP MCBs as out goings complete with ammeter, indication lamp etc.	5	Nos.	82,813.52	4,14,067.59
5.6	Surface/Recess mounted Building Power Point Panel (PP-LDB) for Building Power Points, AC's etc for IP station consisting of 100 Amp (100mA sensitivity) 4 Pole RCBO as incomer and 10 nos. 20A DP MCB & 8 nos. 16A DP MCBs as out goings complete with indication lamp etc.	5	Nos.	52,110.00	2,60,550.00
5.7	Outdoor Lighting Panel (O-LDB) consisting of 80 Amp (100mA sensitivity) 4 Pole RCBO as incomer and 5 nos. 20/16A TPN MCBs & 5 nos. 20A DP MCBs as out goings complete with Contactor, timer, A/M switch, PB with timer and 5 Nos. 20/16 Amp DP MCB, 5 Nos. 20A TPN MCB without timer etc indication lamp.	5	Nos.	1,00,901.40	5,04,507.00
5.8	Flame Proof Feeder Pillar (Structure Mounted) for Outdoor Lighting 80 Amp (100mA sensitivity) 4 Pole RCBO as incomer and 12 nos. 20/16A TPN MCBs & 5 nos. 20A SPN MCBs as out goings.	5	Nos.	32,157.00	1,60,785.00
5.9	Supply, installation, testing & commissioning of 1600VA sine wave Inverter system with 2x150Ah Battery backup tubular type battery for critical lighting in control room building & outdoor area (Make Inverter: Su-Kam, Genius, Luminus, Microtek, Battery: Exide, Amaraja).	5	Nos.	67,275.44	3,36,377.21
5.10	Supply, installation, testing, commissioning of the complete earthing and lightning protection system, earth electrodes/ pit, earth main ring, earthing of electrical equipments, instrument panels, field instruments, process equipments and pipes/ flanges including all associated civil work with all material and labour as per specification and drawings approved by the Owner/Consultant.				
5.11	Earth Pits- GI PIPE Electrode with 6 mm thick chequered plate cover	20	Nos.	18,028.95	3,60,579.06
5.12	Earth Pits- Copper plate Electrode with 6 mm thick chequered plate cover	5	Nos.	25,738.86	1,28,694.29
5.13	GI Strip (50X6) mm	750	M	321.68	2,41,259.47
5.14	GI Strip (25X3) mm	1,000	M	166.06	1,66,059.03

5.15	Copper Strip (25X3) mm	250	M	882.05	2,20,513.74
5.16	GI Wire (8mm- solid), Cu- wire rope (Min 8 mm dia solid) and all balance earthing material including copper strip (50 mm x 2 mm thick) jumper for flanges etc. as per the specification for all stations.	5	Lot	36,765.00	1,83,825.00
5.17	GI lightning rod 16 mm dia. 3000 mm long air termination rod including supply of all mounting hardware (IEC 62305 approved) etc. complete as per approved drawings, specifications and directions of Engineer-In-Charge.	10	Set	11,920.00	1,19,200.00
5.18	Advance maintenance free earthing system with 3mtr earth electrode of low carbon steel with 250 micron copper coating with carbon based backfill compound (Resistivity of compound shall be less than 1 ohm-m) as per IS 3043/IEEE-80.	5	Nos.	24,530.53	1,22,652.67
5.19	Supply, laying, termination, testing and commissioning of 1.1kV grade XLPE insulated, PVC sheathed, FRLS power and control cables (conforming to IS:7098 and specification) of following sizes in trenches/ excavated under ground trench /trays, pulling through pipes and its proper sealing, cutting of paved area, roads etc.				
5.20	3.5x 240 mm ² A2XFY	750	M	1,283.80	9,62,850.00
5.21	3.5x 120 mm ² A2XFY	750	M	903.03	6,77,270.14
5.22	3.5x 95 mm ² A2XFY	750	M	703.19	5,27,390.80
5.23	3.5x 70 mm ² A2XFY	500	M	553.08	2,76,541.30
5.24	3.5x 35 mm ² A2XFY	500	M	358.58	1,79,288.86
5.25	3.5x 25 mm ² 2XFY	500	M	1,052.09	5,26,045.45
5.26	2x35 mm ² 2XFY	500	M	765.15	3,82,576.30
5.27	3.5x10 mm ² 2XWY	500	M	647.03	3,23,514.88
5.28	4x 6 mm ² 2XWY	500	M	431.89	2,15,944.87

5.29	4x 4 mm ² 2XWY	500	M	325.36	1,62,682.10
5.30	4x 2.5 mm ² 2XWY	750	M	224.59	1,68,443.62
5.31	2x 4 mm ² 2XWY	500	M	191.76	95,877.86
5.32	2.5 Sqmm Flame Retardant Low smoke(FRLSH) PVC Insulated Building wire (90mtr roll)	90	Nos.	50.12	4,510.59
5.33	4 Sqmm Flame Retardant Low smoke(FRLSH) PVC Insulated Building wire (90mtr roll)	90	Nos.	72.82	6,554.12
5.34	6 Sqmm Flame Retardant Low smoke(FRLSH) PVC Insulated Building wire (90mtr roll)	90	Nos.	94.65	8,518.24
5.35	Supply, installation, testing, commissioning of lighting fixtures complete with mounting bracket, flame proof/non flame proof, control gear box as per the type of fixture, lamps, 4 way junction boxes etc. including civil work with pipe inserts for cables and connecting work, with all material and labour as per specifications, drawings and instruction of Engineer-in-charge. Work to be completed in all respects.				
5.36	Street lighting, integral flame proof well glass fixture (CMIFR approved for Zone-1/2 gas group IIA & IIB) with 72 W LED luminaire with flame proof control gear Model no. FLPW-1095 of Baliga make or equivalent)	32	Nos.	15,469.50	4,95,024.12
5.37	Street lighting Non flame proof luminaire (lighting fixture : Type LSTP-45-CDL of M/s CG make or equivalent, with 45W LED).	32	Nos.	11,191.01	3,58,112.22
5.38	Non flame proof Integral flood lighting fixture (for 72W LED) on building/ structure/pole, lighting fixture type : LSFN-72-CDL of M/s CG make or equivalent	32	Nos.	13,944.69	4,46,230.00
5.39	Flame proof Integral flood lighting fixture (for 150W LED) on building/ structure/pole, lighting fixture type : FLPW-2595 of M/s Baliga make or equivalent	32	Nos.	19,655.21	6,28,966.76
5.40	Non flame proof bracket mounted integral LED lighting fixture on building/ structure, lighting fixture type : LSTP-45-CDL of M/s CG make or equivalent	32	Nos.	9,911.43	3,17,165.67
5.41	Electric Illuminated Station detail board (6ftx3ft) alongwith mounting structure (Station detail will be decided in detail engineering).	32	Nos.	66,243.90	21,19,804.93
5.42	Street lighting pole 6mtr high GI octagonal pole (Type BOP-6030 of Bajaj make or equivalent) complete with bracket, GI clamps, FLP Cable glands, flame proof & weather proof (IP-55) junction boxes (4 way) and standard specifications such as IS-418/IEC 60598, IS-1112, IS2418, IS-4012, IS-5571, IS-1944, IS-2147/IEC-60529, IS-2165/IEC-60664, IEC-60085, etc.	32	Nos.	23,074.97	7,38,398.88

5.43	SUPPLY,ERECTION, TESTING AND COMMISSIONING				
5.44	Supply, installation, Inspection,Transportation to site, erection on pole, testing and commissioning of 11 kv/433 V outdoor type,3Ph,50Hz,copper wound, Dyn11, ONAN distribution transformer complete with all accessories as per REC specification 11/1976 and/or IS 2026/1180. and latest amendments there of and first oil filled. Termination arrangement for HV side : HT bushing & LV side Cable end box/Terminal box of following rating (Make of Transformer shall be approved from State Electricity Board)				
	63KVA	1	Nos.	3,96,254.10	3,96,254.10
5.45	Supply Erection, testing & commissioning of all the items listed at (Sl. No. 8.1 to 8.6 below) including transformer, all miscellaneous materials required, digging, trenching, backfilling, compaction, making of foundations/ pedestal, fixing the fencing and gate, spreading of blue granite material, etc as required to complete the HT & LT installation as per the tender. (All electrical equipments shall be approved from State Electricity Board)				
5.46	Double pole Structure with MS joist ISMB 200 x 100 mm, 9 m long complete with 100 x 50 mm MS channels of required length and size ; 11 kV 3 Ph. horizontal Gang operated Air Break switch, DO fuse, lightning arrestors of suitable ampere rating;pin insulators, disc insulators, operating rod, handle, locking arrangement, copper wire for jumper connection, stay set complete with all accessories etc as required inclusive of paint (two coats of primer & two coats of final aluminum paint) and concrete foundation.	1	Set	1,95,916.67	1,95,916.67
5.47	Supply, erection and commissioning of 11 kV, ACSR weasel conductor as required for stringing between State Electricity Board Double pole and consumer double pole structures.	20	M	408.05	8,160.90
5.48	Outdoor type dust & weather proof sheet steel (2 mm thick) enclosed MCCB of following rating for mounting on wall or pedestal. 250A, 415V, 3 Pole & Neutral AC-23 duty and suitable for termination of 3.5 x 120/95 sq.mm A2XFY cable on incomer terminals and outgoing terminals.	5	Nos.	47,994.79	2,39,973.96
5.49	3Cx 150 Sqmm, 11 KV (UE) HT Cable, XLPE insulated and PVC sheated, Screened, Armoured.	20	M	1,584.76	31,695.20
5.50	Supply, Installation, testing & commissioning of point wiring as per details in construction drawing & specification includes PVC conduits in ceiling, complete wiring including flexible wire (FRLSH PVC), switch boxes & switches (ANCHOR ROMA make or equivalent), Multi strand Flexible FRLSH PVC insulated copper conductor wires/cables for following items (Wiring from DB to Switchboard shall be included in the point wiring)-				
5.51	Light Point				

5.52	Surface/ recess mounted LED light fixrure with LED lamp (type LCTL-18 -CDL of CG make or equivalent).	16	Nos.	4,136.84	66,189.48
5.53	Industrial Flame proof fluorescent lamp fitting with LED lamp (type EXTN2LT8-20 of CG make or equivalent).	16	Nos.	13,835.14	2,21,362.22
5.54	Integral LED Post top lantern Non flame proof luminaire (lighting fixture : Type LPTO-40/CDL of M/s CG make or equivalent on post top at Main Enterance gate of station with all mounting aggements).	16	Nos.	9,435.76	1,50,972.22
5.55	Exhaust fan (Industrial type 300/450 mm) with louvers,950 rpm,55watt.	10	Nos.	6,277.63	62,776.25
5.56	Flame Proof (CMIFR approved) 12" Exhaust Fan.0.25HP motor,1440 rpm. (Preferred Make: Baliga, FCG, CGL, Prompt)	10	Nos.	15,347.05	1,53,470.49
5.57	Socket outlet (5/15 Amp combination) of ANCHOR ROMA make or equivalent	50	Nos.	853.32	42,666.00
5.58	20 Amp sheet steel enclosed industrial type socket with 20 Amp DP MCB for AC.	50	Nos.	2,368.95	1,18,447.42
5.59	Ceiling fan with electronic regulator (Energy efficent, 50W, 1200 mm sweep)	10	Nos.	3,641.67	36,416.73
5.60	Wall mounted fan with electronic regulator (Energy efficent, 50W, 400 mm sweep, 1300 rpm) etc complete in all respect for wall mounting	10	Nos.	3,223.48	32,234.78
5.61	Junction Boxes				
5.62	IP-55 weather proof, structure/surface mounted junction box with canopy with 4 Sqmm terminals, cable glands & all other accessories required for termination of cables (4Way).	10	Nos.	2,833.95	28,339.47
5.63	FLP, IP-55 weather proof, structure/surface mounted junction box with 4 Sqmm terminals with cable glands & all other accessories required for termination of cables (2Way).	10	Nos.	4,549.80	45,497.96
5.64	Air Conditioners				
5.65	Supply, Installation, testing and commissioning of latest model (5 stars BEE certified inverter AC) min 1.8 T industrial split AC complete with remote, 5 KVA stablizer, 12 Hr timer, MS Stand for outdoor unit etc.	10	Nos.	80,494.70	8,04,947.03
5.66	Supply of flame proof type portable type emergency light fed by a self- contained SMF battery and charger operating on input supply 240 V AC. (Preferred make: Sudhir or equivalent)	5	Nos.	8,600.00	43,000.00

5.67	Supply and laying of following sizes of class 'B' G.I.Pipe in required length fixed on steel, concrete or similar structure, laid in trenches, ready to be buried in concrete including cutting, threading, bending and similar works, supply of clamps, small iron structures, spacers and installation of seats, plugs, bushings etc. small civil works, including all labour and materials complete as per approved drawings and directions of Engineer-In-Charge.				
5.68	Supply, Installation, Erection of following Hot Dip Galvanized Ladder/Perforated Type cable trays (as per IS 2629) including bends, tee, crosses, horizontal and vertical splices etc. as required including supply of all G.I hardware, all labour and material as required as per standard drawings, specification and direction of Engineer-in-charge				
5.69	Ladder type, made from 50mm height and 2.5 mm thick sheet steel & galvanized (86 microns) of following sizes.				
5.70	150 mm wide	800	M	659.63	5,27,706.12
5.71	300 mm wide	800	M	930.73	7,44,583.33
5.72	Perforated type, made from 50mm height and 2.5 mm thick sheet steel & galvanized (86 microns) of following sizes.				
5.73	150mm wide	1,600	M	822.19	13,15,511.11
5.74	Supply and laying of Insulating Mats 11kV grade (as per IS:15652 - 2006) of 1000mm width, required for maintenance of electrical equipment in substation as required including cutting to required shape in running length and including all labour and materials etc. complete and as per directions of Engineer-In-Charge as per applicable Indian or International standards and Indian Electricity Rules.	200	M	2,045.14	4,09,027.78
5.75	Burried Trench				
5.76	Excavation to required width and depth (in all types of soil including rock cutting, jungle / debris clearing wherever required along the cable route) filling with 150 mm sand above and below cables and good quality approved bricks (75 mm thick) covering the cables through out the trench, back filling (after cable laying), and finally compacting as per tender specification and approved drawings, including one run of warning tape.				
5.77	300mm wide x 1000mm depth	1,280	M	492.27	6,30,103.58
5.78	600mm wide x 1000mm depth	480	M	635.29	3,04,938.08

5.79	1000mm wide x 1000mm depth	480	M	842.58	4,04,439.40
5.80	Automatic Voltage Regulator				
5.81	Supply, installation, testing, commissioning of 80KVA Automatic Voltage Regulator (AVR), Outdoor duty (IP-55 & IP-66 control gear) along with suitable rating of Incomer Voltage Range 320V to 490V with MCCB and outgoing Voltage 433V, $\pm 3\%$ with metallic enclosure(IP-55) & MCCB, including two nos Change Over switch(COS) of rating 250A ,AC23 duty complete in all respect. AVR shall be installed outside in structural cover shed over the plinth to protect the AVR from rain & dust. Successful Bidder shall submit all the drawing for AVR mounting along with shed. All cable terminations including supply og glands shall be in the scope of the Bidder.	1	Set	5,21,714.04	5,21,714.04
Total (excluding GST)					20,06,20,647.83
% above or below to be quoted by bidders			%		

NOTE TO BIDDERS:

- Quantities mentioned here are indicative only and are subject to change as per site conditions / Release Order.
- Rates shall remain firm. Bidders to quote % above or below the rates mentioned.
- IGGL can execute any quantity of any SOR item subject to overall limit of contract price. Bidders to quote accordingly.
- There is no liability on part of IGGL to execute any quantity against any SOR item. Requirement of the quantity against any SOR item shall be as per actual site conditions mentioned in Release Order.
- Work shall be executed at different locations located in any state of North Eastern part of India. Release Order shall be awarded in a staggered manner as per actual requirement of IGGL.
- There may be multiple mobilization and demobilization. Bidders to quote accordingly.
- Quoted percentage should be excluding of GST and as per the details mentioned in the item description of BoQ/Price bid. GST@18% is already considered in the item rates. Further, Bidder shall mention applicable GST rate in Form-F5.
- PERCENTAGE TO BE ENTERED ONLY IN THE PRICED BID FORMAT/BOQ AVAILABLE IN THE E-TENDERING PORTAL.
- THE AWARDED ITEM RATES WILL BE PROPORTIONATELY CHANGED DEPENDING ON THE QUOTED PERCENTAGE.**

=====

SECTION-VIII

ATTACHMENTS

PROFORMA FOR CONTRACT AGREEMENT

FOA No/SAP PO No.: IGGL/

Contract Agreement for the work of ----- of IGGL made on ----- between (Name and Address) -----, hereinafter called the "CONTRACTOR" (which term shall unless excluded by or repugnant to the subject or context include its successors and permitted assignees) of the one part and IGGL hereinafter called the "EMPLOYER" (which term shall, unless excluded by or repugnant to the subject or context include its successors and assignees) of the other part.

WHEREAS

- A. The EMPLOYER being desirous of having provided and executed certain work mentioned, enumerated or referred to in the Tender Documents including Letter Inviting Tender, General Tender Notice, General Conditions of Contract, Special Conditions of Contract, Specifications, Drawings, Plans, Time Schedule of completion of jobs, Schedule of Rates, Agreed Variations, other documents has called for Tender.
- B. The CONTRACTOR has inspected the SITE and surroundings of WORK specified in the Tender Documents and has satisfied himself by careful examination before submitting his tender as to the nature of the surface, strata, soil, sub-soil and ground, the form and nature of site and local conditions, the quantities, nature and magnitude of the work, the availability of labour and materials necessary for the execution of work, the means of access to SITE, the supply of power and water thereto and the accommodation he may require and has made local and independent enquiries and obtained complete information as to the matters and thing referred to, or implied in the tender documents or having any connection therewith and has considered the nature and extent of all probable and possible situations, delays, hindrances or interferences to or with the execution and completion of the work to be carried out under the CONTRACT, and has examined and considered all other matters, conditions and things and probable and possible contingencies, and generally all matters incidental thereto and ancillary thereof affecting the execution and completion of the WORK and which might have influenced him in making his tender.
- C. The Tender Documents including the Notice Letter Inviting Tender, General Conditions of Contract, Special Conditions of Contract, Schedule of Rates, General Obligations, SPECIFICATIONS, DRAWINGS, PLANS, Time Schedule for completion

=====

of Jobs, Letter of Acceptance of Tender and any statement of agreed variations with its enclosures copies of which are hereto annexed form part of this CONTRACT though separately set out herein and are included in the expression "CONTRACT" wherever herein used.

AND WHEREAS

The EMPLOYER accepted the Tender of the CONTRACTOR for the provision and the execution of the said WORK at the rates stated in the schedule of quantities of the work and finally approved by EMPLOYER (hereinafter called the "Schedule of Rates") upon the terms and subject to the conditions of CONTRACT.

NOW THIS AGREEMENT WITNESSETH AND IT IS HEREBY AGREED AND DECLARED AS FOLLOWS: -

1. In consideration of the payment to be made to the CONTRACTOR for the WORK to be executed by him, the CONTRACTOR hereby covenants with EMPLOYER that the CONTRACTOR shall and will duly provide, execute and complete the said work and shall do and perform all other acts and things in the CONTRACT mentioned or described or which are to be implied there from or may be reasonably necessary for the completion of the said WORK and at the said times and in the manner and subject to the terms and conditions or stipulations mentioned in the contract.
2. In consideration of the due provision execution and completion of the said WORK, EMPLOYER does hereby agree with the CONTRACTOR that the EMPLOYER will pay to the CONTRACTOR the respective amounts for the WORK actually done by him and approved by the EMPLOYER at the Schedule of Rates and such other sum payable to the CONTRACTOR under provision of CONTRACT, such payment to be made at such time in such manner as provided for in the CONTRACT.

AND

3. In consideration of the due provision, execution and completion of the said WORK the CONTRACTOR does hereby agree to pay such sums as may be due to the EMPLOYER for the services rendered by the EMPLOYER to the CONTRACTOR, such as power supply, water supply and others as set for in the said CONTRACT and such other sums as may become payable to the EMPLOYER towards the controlled items of consumable materials or towards loss, damage to the EMPLOYER'S equipment, materials construction plant and machinery, such payments to be made at such time and in such manner as is provided in the CONTRACT.

It is specifically and distinctly understood and agreed between the EMPLOYER and the CONTRACTOR that the CONTRACTOR shall have no right, title or interest in the SITE

=====

made available by the EMPLOYER for execution of the works or in the building, structures or work executed on the said SITE by the CONTRACTOR or in the goods, articles, materials etc., brought on the said SITE (unless the same specifically belongs to the CONTRACTOR) and the CONTRACTOR shall not have or deemed to have any lien whatsoever charge for unpaid bills will not be entitled to assume or retain possession or control of the SITE or structures and the EMPLOYER shall have an absolute and unfettered right to take full possession of SITE and to remove the CONTRACTOR, their servants, agents and materials belonging to the CONTRACTOR and lying on the SITE.

Contractor shall be allowed to enter upon the SITE for execution of the WORK only as a licensee simpliciter and shall not have any claim, right, title or interest in the SITE or the structures erected thereon and the EMPLOYER shall be entitled to terminate such license at any time without assigning any reason.

The materials including sand, gravel, stone, loose, earth, rock etc., dug up or excavated from the said SITE shall, unless otherwise expressly agreed under this CONTRACT, exclusively belong to the EMPLOYER and the CONTRACTOR shall have no right to claim over the same and such excavation and materials should be disposed off on account of the EMPLOYER according to the instruction in writing issued from time to time by the ENGINEER-IN-CHARGE.

In Witness whereof the parties have executed these presents in the day and the year first above written.

Signed and Delivered for and on
on behalf of **IGGL**

Signed and Delivered for and
behalf of **M/s**_____

Date: _____

Date: _____

Place: _____

Place: _____

IN PRESENCE OF TWO WITNESSES

1. _____

1. _____

2. _____

2. _____