



INDRADHANUSH GAS GRID LIMITED (IGGL)
(Joint Venture of IOCL, ONGC, GAIL, OIL and NRL)
GUWAHATI, ASSAM

NORTH -EAST GAS GRID PIPELINE PROJECT

BID DOCUMENT FOR

**LAST MILE CONNECTIVITY WORK INSIDE NUMALIGARH
REFINERY LIMITED (NRL) UNDER GUWAHATI-NUMALIGARH
PIPELINE (SECTION-1) UNDER NORTH EAST GAS GRID (NEGG)
PROJECT OF M/S INDRADHANUSH GAS GRID LIMITED (IGGL)**

OPEN DOMESTIC COMPETITIVE BIDDING

Tender ID: 2025_IGGL_253876_1

Bid Document No.: 05/51/23VC/IGGL/001(i)-NRL

VOLUME – I OF III



PREPARED AND ISSUED BY
MECON LIMITED
(A Govt. of India Undertaking)
Delhi, India

MASTER INDEX

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SECTION-I

INVITATION FOR BID

(IFB)

SECTION-I

"INVITATION FOR BID (IFB)"

Ref No: 05/51/23VC/IGGL/001(i)-NRL
To,

Date: 07.03.2026

[PROSPECTIVE BIDDERS]

SUB: TENDER DOCUMENT FOR LAST MILE CONNECTIVITY WORK INSIDE NUMALIGARH REFINERY LIMITED (NRL) UNDER GUWAHATI-NUMALIGARH PIPELINE (SECTION-1) UNDER NORTH EAST GAS GRID (NEGG) PROJECT OF M/S INDRADHANUSH GAS GRID LIMITED (IGGL) ON OPEN DOMESTIC COMPETITIVE BIDDING BASIS

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, has appointed MECON Limited (hereinafter referred to as "MECON") as EPMC for "**NORTH -EAST GAS GRID PIPELINE PROJECT**". MECON Ltd. on behalf of Indradhanush Gas Grid Limited invites bids from bidders for the subject supply/job, in complete accordance with the following details and enclosed Tender Documents.
Bids submitted online on e-tendering CPP portal of Government (<https://etenders.gov.in/eprocure/app>) shall only be considered for processing.

2.0 The brief details of the tender are as under:

(A)	NAME OF WORK / BRIEF SCOPE OF WORK / JOB	LAST MILE CONNECTIVITY WORK INSIDE NUMALIGARH REFINERY LIMITED (NRL) UNDER GUWAHATI-NUMALIGARH PIPELINE (SECTION-1)				
(B)	TENDER NO. & DATE	05/51/23VC/IGGL/001(NEGDCL)-R1 Tender ID: 2025_IGGL_253876_1 Date: 07.03.2026				
(C)	TYPE OF BIDDING SYSTEM	<table><tr><td>SINGLE BID SYSTEM</td><td> X </td></tr><tr><td>TWO BID SYSTEM</td><td> √ </td></tr></table> OPEN DOMESTIC COMPETITIVE BIDDING	SINGLE BID SYSTEM	X	TWO BID SYSTEM	√
SINGLE BID SYSTEM	X					
TWO BID SYSTEM	√					

(D)	TYPE OF TENDER	<table><tr><td>E-TENDER</td><td>☒</td></tr><tr><td>MANUAL</td><td>☒</td></tr></table> Tender ID: 2025_IGGL_253876_1	E-TENDER	☒	MANUAL	☒
E-TENDER	☒					
MANUAL	☒					
(E)	COMPLETION/CONTRACT PERIOD	Completion schedule shall be 3 1/2 (Three & half) months from the date of Fax of Acceptance (FOA) for Mechanical Completion & Commissioning including mobilization period of 15 (fifteen) days				
(F)	BID SECURITY / EARNEST MONEY DEPOSIT (EMD)	<table><tr><td>APPLICABLE</td><td>☒</td></tr><tr><td>NOT APPLICABLE</td><td>☒</td></tr></table> <u>Amount: INR 14.74 lakhs</u> Note: <u>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.</u> (Refer clause no.16 of ITB)	APPLICABLE	☒	NOT APPLICABLE	☒
APPLICABLE	☒					
NOT APPLICABLE	☒					
(F1)	DECLARATION FOR BID SECURITY	Start-Ups (to whom exemption is allowed 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 07.03.2026 to 30.03.2026 (1400 Hrs, IST) on following websites: (i) IGGL’s Tender Website – https://iggl.co.in (ii) Govt. CPP Portal - https://etenders.gov.in (iii) Govt. e-Procurement System of National Informatics Center (GePNIC) portal [e-tender portal] https://etenders.gov.in/eprocure/app (iv) MECON’s Tender Website:- www.meconlimited.co.in				

(H)	DATE, TIME & VENUE OF PRE-BID MEETING	Date : 13.03.2026 Time : 1500 Hrs (IST) Shall be conducted through Video Conferencing Details of VC via Google Meet - Google Meet joining info Video call link: https://meet.google.com/zyp-wmvz-ndy
(HA)	VOID	
(I)	DUE DATE & TIME OF BID-SUBMISSION (ON OR BEFORE)	Date : 30.03.2026 Time : Upto 1400 Hrs (IST)
(J)	DATE AND TIME OF UN-PRICED BID OPENING	Date : 31.03.2026 Time : At 1500 Hrs (IST) Shall be conducted through Video Conferencing Details of VC via Google Meet - Google Meet joining info Video call link: https://meet.google.com/qew-raqw-wfz
(K)	CONTACT DETAILS OF TENDER DEALING OFFICER	Vaidant Kumar Bairwa, DGM I/c (Contracts) MECON Limited 15 th Floor, Scope Minor, District Centre, Laxmi Nagar, Delhi – 110092, India Ph. No. +91-11-22401143/ 22401224 Email : cont-delhi@meconlimited.co.in
(L)	DEALING ADDRESS IGGL'S OFFICE	Indradhanush Gas Grid Limited 7 th Floor, NRL Centre, G S Road, Christian Basti, Guwahati , Assam – 781005

In case the days specified above happens to be a holiday in IGGL, the next working day shall be implied w.r.t. bid opening and pre bid meeting, etc.

- 3.0 Bids must be submitted strictly in accordance with Clause No. 11 of ITB (Section-III). The IFB is an integral and inseparable part of the Tender Document.
- 4.0 In case of E-Tender, bid must be submitted only on <https://etenders.gov.in/eprocure/app> . 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) [Annexure-IV to Section-III]:-
- EMD/Bid Security / Declaration for Bid Security (As applicable)
 - Line of Credit (If applicable)
 - Integrity Pact (if, applicable)
 - Power of Attorney

- 5.0 Bidder(s) are advised to submit their bid 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 Bid Due Date & Time.
- 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 Bid is found responsive subject to provisions contained in Clause No. 2 of ITB (Section-III).
- The Tender Document calls for offers on single point “Sole Bidder” responsibility basis (except where Consortium bid is allowed pursuant to clause no. 3.0 of ITB) and in total compliance of Scope of Supply /Specification(s) as specified in Tender Document.
- 8.0 Any revision, clarification, 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 the date of receipt of tender information.
- 10.0 SAP generated Request for Quotation (RFQ), if any shall also form an integral part of the Tender Document.

This is not an Order.

For & on behalf of

Indradhanush Gas Grid Limited

(Authorized Signatory)

Name : Vaidant Kumar Bairwa

Designation : DGM I/c (Contracts)

E-mail ID : cont-delhi@meconlimited.co.in

Contact No. : +91-11-22401224/ 22401143

CUT-OUT SLIP

DO NOT OPEN - THIS IS A QUOTATION

Tender Ref. No. : 05/51/23VC/IGGL/001(i)-NRL
(Tender ID no. 2025_IGGL_253876_1)

Description : LAST MILE CONNECTIVITY WORK INSIDE
NUMALIGARH REFINERY LIMITED (NRL)
UNDER GUWAHATI-NUMALIGARH PIPELINE
(SECTION-1) UNDER NORTH EAST GAS GRID
(NEGG) PROJECT OF M/S INDRADHANUSH GAS
GRID LIMITED (IGGL)

Bid Due Date& Time : On 30.03.2026 at 1400 Hrs

From: **To:**

.....	The Dy. General Manager I/c (Contracts)
.....	MECON LIMITED
	15TH FLOOR, NORTH TOWER,
	SCOPE MINAR, LAXMI NAGAR,
	DELHI – 110092
	Ph No.: 91-11-22401143/ 22401224
	Email : cont-delhi@meconlimited.co.in

(To be pasted on the envelope containing Physical documents)

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SECTION-II

BID EVALUATION

CRITERIA &

EVALUATION

METHODOLOGY

SECTION-II

BID EVALUATION CRITERIA & EVALUATION METHODOLOGY

BID EVALUATION CRITERIA (BEC)

A. Technical Criteria

A.1 The bidder should have successfully completed “similar work” of value not less than as indicated below in last 07 (Seven) years to be reckoned from the bid due date, as mentioned under

a) At least three “similar work” contract* each having minimum value **INR 294.80 Lakhs** in previous 7 (seven) years reckoned from the bid due date

OR

b) At least two “similar work” contract* each having minimum value **INR 368.50 lakhs** in previous 7 (seven) years reckoned from the bid due date

OR

c) At least one “similar work” contract* each having minimum value **INR 589.60 lakhs** in previous 7 (seven) years reckoned from the bid due date

Definition of “Similar Work”: shall mean

Piping work involving fabrication, installation and testing, either independently or along with steel pipeline laying work, in the hydrocarbon industry.

OR

Composite work consisting of station piping, civil work & structural and associated work in hydrocarbon industry.

(*) In case more than one contract are emanating against one tender, these contracts are to be considered as single contract for evaluation of credentials of a bidder for meeting their experience criteria.

Note to Clause A:

- i) 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.
- ii) In case the bidder has an experience as a Consortium member/JV member and such a member has executed earlier a job within its scope as a member of the consortium/JV, which is required as experience as per the qualification criteria in clause no. A.1, will be considered. Appropriate documentary evidence to establish this is to be submitted towards such experience.

- iii) 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 (for details please refer clause no. “H” below).
- iv) Consortium bids are not acceptable.

B. FINANCIAL

B.1 Annual turnover

The minimum Average Annual Financial Turnover (i.e., Revenue from Operations) of the bidder as per their audited annual financial statements during the three immediate preceding financial years shall be as **INR 368.50 lakhs**

B.2 Net Worth

Net worth of the bidder should be positive as per the immediate preceding audited financial statement of last financial year.

For the purpose of net worth for this tender, the same shall be defined in “Format for Chartered Accountant Certificate / Certified Public Accountant (CPA) for Financial Capability of the Bidder” enclosed in the tender document.

B.3 Working Capital

The minimum working capital of the bidder as per the audited annual financial statement of last financial year shall be **INR 73.70 lakhs**

Note to clause B:

- (i) 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, irrespective of overall position of the working capital, 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, 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.

The original document for ‘Line of Credit’ should be submitted along with other physical documents required as per tender conditions, or in response to commercial query, failing which bid shall be rejected.
- (ii) **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 September of the relevant financial year. In case the tenders having the due date for submission of bid up to 30th September (or as amended by Government time to time) 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.

- (iii) **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 Net worth / Working Capital.

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

(a) **BEC (Technical Criteria):** Bill Selling (foreign exchange) Rate of State Bank of India as prevailing on the date of award of order/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>

- D. Only documents (Purchase 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.

In absence of such documents, IGGL / MECON reserve right to reject the bid without making any reference to the bidder or assigning any reason whatsoever.

E. RELAXATION OF PRIOR TURNOVER AND PRIOR EXPERIENCE FOR STARTUPS (AS DEFINED IN GAZETTE NOTIFICATION NO. D.L-33004/99 DATED 18.02.2016 AND 23.05.2017 OF MINISTRY OF COMMERCE AND INDUSTRY), AS AMENDMED TIME TO TIME

Not Applicable

F. DOCUMENTS TO BE SUBMITTED FOR COMPLIANCE TO BEC

Documents / Documentary Evidence required to be provided (upload in e-portal) by participating bidder along with the un-priced bid to qualify/ meet the requirements of BEC:

BEC Cl. No.	Description	Documents required for qualification
Documents Required-Technical Criteria		
A.1	Experience as a single bidder	(a) Detailed Work Order along with Schedule of Rates. (b) Completion certificate issued by end user/ Owner (or their consultant who has been duly authorized by owner to issue such certificate). Note: The completion certificates shall have details like work order no., date, brief scope of work, completion date, executed order value. etc.
Note to A (i)	Jobs executed for Subsidiary / Fellow subsidiary / Holding company	Tax paid invoice(s) duly certified by statutory auditor of the bidder towards payments of statutory tax in support of the job executed for Subsidiary / Fellow subsidiary /Holding company.
Note to A (ii)	Experience as consortium member/JV member	(a) Same documents as mentioned in A.1 above. (b) Consortium Agreement / MOU clearly defining the scope and responsibility. Note: The completion certificates shall have details like work order no., date, brief scope of work, completion date, executed order value etc.
B	Documents Required-Financial Criteria	
B	BEC (Financial)	A certificate for financial capability of the bidder from Practicing Chartered Accountant in prescribed format [Format F-10] as provided in the Tender Document.
B.1	Average Annual Turn-over	Bidder(s) shall submit copy of Audited Annual Financial Statement [Balance Sheet and Profit & Loss Account Statement] along with Audit Report of three (3) preceding Financial Year(s) along with un-price bid.

BEC Cl. No.	Description	Documents required for qualification
B.2	Net Worth	Bidder(s) shall submit copy of Audited Annual Financial Statement [Balance Sheet and Profit & Loss Account Statement] along with Audit Report of last Financial Year along with un-price bid.
B.3	Working Capital	Bidder(s) shall submit copy of Audited Annual Financial Statement [Balance Sheet and Profit & Loss Account Statement] alongwith Audit Report for the last audited Financial Year along with un-price bid. Note: 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, irrespective of overall position of the working capital, 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 shortfall of working capital shall be from single bank only. Letters from multiple banks shall not be applicable. However, 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. The original document for "Line of Credit" should be submitted along with other physical documents required as per terms and conditions of tender.

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 (B).

G. AUTHENTICATION OF DOCUMENTS TO BE SUBMITTED IN SUPPORT OF BEC:

(i) Technical Criteria of 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 BEC:

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

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

In absence of requisite documents, IGGL/ MECON reserve the right to reject the bid without making any reference to the bidder.

H. 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 J as below shall be applicable to above supporting company also.
- (v) The Sub contractor / Back up agency / Supporting agency of 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.

I. 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.

J. 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 creditor 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 & III 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.
11. The successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority. The definition of "contractor from a country which shares a land border with India" shall be as in Para 4 herein above. A Certificate to this regard is to be submitted by bidder is placed at Form-II.

[Note: Procurement of raw material, components, etc. does not constitute sub contracting]

K. EVALUATION METHODOLOGY

- 1.1 The "Schedule of rates" quoted by eligible bidders shall be taken up for evaluation.
- 1.2 The total price quoted by the bidder inclusive of all taxes & duties and GST based on prices filled by the bidder in the 'Schedule of Rates' format shall be considered for evaluation and award on Lowest evaluated bid/L-1 basis.
- 1.3 The evaluation of all techno-commercially acceptable bids, to arrive at the lowest evaluated bid, shall be carried out by adding following:
- (i) Total quoted price/ Final Amount, inclusive of all taxes & duties except GST.
 - (ii) GST applicable on Sl. No. (i) above.
- Preferences: Purchase Preference for Make in India (MII) policy shall be applicable as per Government Guideline in vogue.
- 1.4 In case of a tie at the lowest bid (L1) position between two or more bidders, the order/LoA will be placed on the bidder who has higher/ highest turnover in last audited financial year.
In case there is a tie at the lowest bid (L1) position between only startup bidders and none of them has past turnover, the order/LoA will be placed on the startup who is registered earlier with Department for Promotion of Industry and Internal Trade.

Note:

- a) In case the bidder is covered under Composition Scheme under GST laws, then bidder should quote the price inclusive of the GST (CGST&SGST/UTGST or IGST). Further, such bidder should mention “Cover under composition system” in column for GST (CGST&SGST/UTGST or IGST) of price schedule.
- b) In case any unregistered bidder is submitting their bid, Bids will be evaluated as per quoted prices without loading of GST (CGST & SGST/UTGST or IGST), if not quoted.
- c) In case any cess on GST is applicable, same shall also be considered in evaluation.

L. 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/PMC 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/PMC.
- iv. IGGL/PMC reserve the right to cancel / terminate the contract without any liability on the part of IGGL/PMC 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 **Annexure-I to Section-II**.

M. PROVISION REGARDING POLICY TO PROVIDE PREFERENCE TO DOMESTICALLY MANUFACTURED IRON & STEEL PRODUCTS (DMI&SP)

The bidder shall submit self-certification on their company's letter head **as per Annexure-II to Section-II** that bidder shall comply all the provisions of the above referred policy including obtaining an Affidavit of Self Certification of Domestic value addition in Iron & Steel Products from manufacturer before supply of iron and steel products required under the tender/bidding document.

UNDERTAKING ON LETTERHEAD

To,
M/s Indradhanush Gas Grid Limited
7th Floor, NRL Centre, G S Road, Christian Basti, Guwahati, Assam – 781005

**SUB: TENDER DOCUMENT FOR LAST MILE CONNECTIVITY WORK INSIDE
NUMALIGARH REFINERY LIMITED (NRL) UNDER GUWAHATI-
NUMALIGARH PIPELINE (SECTION-1) UNDER NORTH EAST GAS GRID
(NEGG) PROJECT OF M/S INDRADHANUSH GAS GRID LIMITED (IGGL)
TENDER NO: 05/51/23VC/IGGL/001(i)-NRL (Tender ID No. 2025_IGGL_253876_1)**

REF: OM No. 7/10/2021-PPD(l) dated 23.02.2023 of Dept of Expenditure, Ministry of Finance,
Government of India (https://doe.gov.in/procurement-policy-divisions_)

Dear Sir

We, M/s _____ (*Name of Bidder*), have read the clause regarding restrictions
on Procurement from a Bidder of a country which shares a land border with India as
mentioned in the tender document in line with the above referred guidelines dated
23.02.2023 for Procurement from a bidder which shares a land border with India and We
certify that

- (i) Bidder is not from such a country []
- (ii) If the Bidder is from such a country []
which shares a land border with India, has been registered
with the Competent Authority.
(Evidence of valid registration by the
Competent Authority to be attached by the bidder)

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

We hereby certify that we fulfill all requirements in this regard and is eligible to be considered
against the subject tender.

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

Form-I-B to Section-II

UNDERTAKING ON LETTERHEAD
(Applicable in case of Transfer of Technology cases only)

To,
M/s Indradhanush Gas Grid Limited
7th Floor, NRL Centre, G S Road, Christian Basti, Guwahati, Assam – 781005

**SUB: TENDER DOCUMENT FOR LAST MILE CONNECTIVITY WORK INSIDE
NUMALIGARH REFINERY LIMITED (NRL) UNDER GUWAHATI-
NUMALIGARH PIPELINE (SECTION-1) UNDER NORTH EAST GAS GRID
(NEGG) PROJECT OF M/S INDRADHANUSH GAS GRID LIMITED (IGGL)
TENDER NO: 05/51/23VC/IGGL/001(i)-NRL (Tender ID No. 2025_IGGL_253876_1)**

REF: OM No. 7/10/2021-PPD(1) dated 23.02.2023 of Dept of Expenditure, Ministry of
Finance, Government of India (<https://doe.gov.in/procurement-policy-divisions>)

Dear Sir

We, M/s _____ (*Name of Bidder*), have read the clause regarding restrictions on
Procurement from a Bidder of a Country having Transfer of Technology (ToT)
arrangement as mentioned in the tender document in line with the above referred guidelines
dated 23.02.2023 for Procurement from a bidder which shares a land border with India and
We certify that

(i) The Bidder does not have ToT with such a country []

(i) If the Bidder is having ToT from such a country []
which share a land border with India, has been registered

with the Competent Authority.
(Evidence of valid registration by the
Competent Authority to be attached by the bidder)

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

We hereby certify that we fulfill all requirements in this regard and is eligible to be
considered against the subject tender.

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

Form-II to Section-II

CERTIFICATE FOR TENDERS FOR WORKS INVOLVING POSSIBILITY OF SUB-CONTRACTING

To,
M/s Indradhanush Gas Grid Limited
7th Floor, NRL Centre, G S Road, Christian Basti, Guwahati, Assam – 781005

**SUB: TENDER DOCUMENT FOR LAST MILE CONNECTIVITY WORK INSIDE
NUMALIGARH REFINERY LIMITED (NRL) UNDER GUWAHATI-
NUMALIGARH PIPELINE (SECTION-1) UNDER NORTH EAST GAS GRID
(NEGG) PROJECT OF M/S INDRADHANUSH GAS GRID LIMITED (IGGL)
TENDER NO: 05/51/23VC/IGGL/001(i)-NRL (Tender ID No. 2025_IGGL_253876_1)**

REF: OM No. 7/10/2021-PPD(1) dated 23.02.2023 of Dept of Expenditure, Ministry of Finance, Government of India (<https://doe.gov.in/procurement-policy-divisions>)

Dear Sir

We, M/s _____ (*Name of Bidder*), have read the clause regarding restrictions on Procurement from a Bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries as mentioned in the tender document in line with the above referred guidelines dated 23.02.2023 for Procurement from a bidder which shares a land border with India and We certify that

- (i) Bidder is not from such a country []
- (ii) If the Bidder is from such a country []
which share a land border with India, has been registered

with the Competent Authority.
(Evidence of valid registration by the
Competent Authority to be attached by the bidder)

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

We further certify that we will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority.

We hereby certify that we fulfill all requirements in this regard and is eligible to be considered.

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)	Brocasting/ Print and Digital Media
(iii)	Defense
(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 III

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

Annexure-I to Section-II

DECLARATION ON PROCEEDINGS UNDER INSOLVENCY AND BANKRUPTCY
CODE 2016

To,
M/s Indradhanush Gas Grid Limited
7th Floor, NRL Centre, G S Road, Christian Basti, Guwahati, Assam – 781005

**SUB: TENDER DOCUMENT FOR LAST MILE CONNECTIVITY WORK INSIDE
NUMALIGARH REFINERY LIMITED (NRL) UNDER GUWAHATI-NUMALIGARH
PIPELINE (SECTION-1) UNDER NORTH EAST GAS GRID (NEGG) PROJECT OF M/S
INDRADHANUSH GAS GRID LIMITED (IGGL)**

TENDER NO: 05/51/23VC/IGGL/001(i)-NRL (Tender ID No. 2025_IGGL_253876_1)

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:

Annexure-II to Section-II

***POLICY FOR PROVIDING PREFERENCE TO DOMESTICALLY MANUFACTURED
IRON & STEEL PRODUCTS IN GOVERNMENT PROCUREMENT
(TO BE SUBMITTED ON BIDDER'S LETTERHEAD)***

SELF-CERTIFICATE

This has reference to “Policy for providing Preference to Domestically Manufactured Iron & Steel Products in Government Procurement” issued by Ministry of Steel, Govt. of India, vide their notification **“G.S.R. 385 (E) dated 29.05.2019 & Amendment/Addition to policy dated 31.12.2020”**.

We confirm that we shall comply all the provisions of the above referred policy including obtaining an Affidavit of Self Certification of Domestic value addition in Iron & Steel Products from manufacturer before supply of iron and steel products required under the tender/bidding document no.: _____

[Signature of Authorized Signatory of Bidder]

Name:

Designation:

Seal:

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, NRL Centre , G.S. Road, Christian Basti ,Guwahati , Assam – 781005, 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 its 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.

3. 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

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 alongwith the Guarantee.

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.

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

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 Assam, India .
2. A letter from the issuing bank of the requisite Bank Guarantee confirming that said Bank Guarantee and all future communication relating to the Bank Guarantee shall be forwarded to Purchaser as per format appended below.
3. The Bank Guarantee shall be from any Indian scheduled bank (excluding Co-operative banks and Regional Rural bank) or a branch of an International bank situated in India and registered with Reserve bank of India as scheduled foreign bank. However, in case of bank guarantees from banks other than the Nationalised Indian banks, the bank must be a commercial bank having net worth in excess of Rs 100 crores and a declaration to this effect shall be made by such commercial bank either in the Bank Guarantee itself or separately on its letterhead.
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	LOA / PO 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)

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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 Invitation For Bid (the “**Tender Document /Bid 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 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 Tender Documents, the terms 'Bid', 'Tender' & 'Offer' and their derivatives [Bidder/Tenderer, Bid/Tender/Offer etc.] are synonymous. Further, 'Day' means 'Calendar Day' and 'Singular' also means 'Plural'.

2 ELIGIBLE BIDDERS

- 2.1 The Bidder shall not be under a declaration of ineligibility by Employer for Corrupt/ Fraudulent/ Collusive/ Coercive practices, as defined in "Instructions to Bidders [ITB], Clause No. 39” (Action in case Corrupt/ Fraudulent/ Collusive/ Coercive Practices).
- 2.2 The Bidder is not put on ‘Holiday’ by 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 about their status regarding para 1 of clause 2.2 herein above 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 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 there status on above 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 (POA) 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).
- (I) In case of a Single Bidder, 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.
- (II) In case of a Consortium, Power of Attorney shall be issued both by Leader as well as Consortium Member(s) of the Consortium as per procedure defined herein above in favour of employee of Leader of Consortium.

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 "CONSORTIUM" Not Applicable

- 3.1 Bids from consortium of two or more members (maximum three including leader) are acceptable provided that they fulfill the qualification criteria and requirements stated in the Bidding Documents. Participating Consortium shall submit the Agreement as per the format F-11 clearly defining the scope and responsibility of each member. Members of consortium shall assume responsibility jointly & severally. The EMD shall be submitted by the Bidder (Consortium).
- 3.2 The Consortium Agreement must clearly define the leader/ lead partner, who shall be responsible for timely completion of work/ services and shall receive/ send instructions for and on behalf of the consortium during the period the bid is under evaluation as well as during the execution of contract.
- 3.3 All the members shall authorize the representative from the lead partner by submitting a Power of attorney (on a non judicial stamp paper of appropriate value) signed by legally authorized signatories of all the member(s). Such authorization must be accompanied with the bid. The authorized signatory shall sign all the documents relating to the tender/ contract. However, in case of award, payment shall be made to the consortium.
- 3.4 A consortium once established at the time of submitting the Bid shall not be allowed to be altered with respect to constituting members of the Consortium or their respective roles/ scope of work, except if and when required in writing by owner. If during the evaluation

of bids, a consortium proposes any alteration/ changes in the orientation of consortium or replacements or inclusions or exclusions of any partner(s)/ member(s) which had originally submitted the bid, bid from such a consortium shall be liable for rejection.

- 3.5 Any member of the consortium/ shall not be eligible either in an individual capacity or be a part of any other consortium to participate in this tender. Further, no member of the consortium/ JV shall be 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. Offer submitted by such consortium shall not be considered for opening/ evaluation/Award.

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 and Clarification(s)' 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], Annexure, Forms & Format**
 - Section-IV : General Conditions of Contract [GCC]***
 - Section-V : Special Conditions of Contract [SCC]
 - Section-VI : Schedule of Rates

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

**The subject tender is based on standard formats and applicability of some specific clauses may be seen in Annexure-IV to Section-III i.e. BDS (Bidding Data Sheet).

For participation in e-tender, instructions are mentioned at Annexure-III 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 TENDER DOCUMENTS

- 8.1 A prospective Bidder requiring any clarification(s) of the Bidding Documents may notify IGGL in writing by 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 scheduled. 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 e-tender portal/ 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', Employer 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 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. Bidders have to take into account all such 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 LANGUAGE 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 a language other than English, the same should be accompanied by an English translation duly authenticated by the Indian Chamber of Commerce, 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 with index.
 - (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), as per Clause 16 of ITB. Declaration for Bid Security as per provision of ITB.
- (k) Void
- (l) Undertaking as per *Form-2 to Annexure-V to Section-III* and Certification from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of other than companies) as per *Form-3 to Annexure-V to Section-III (Applicable for all bidders irrespective of seeking purchase preference or not)*.
- (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 'Form F-14'
- (p) 'Indemnity Bond' as per 'Form F-15'
- (q) 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.
- (r) Additional document specified in BDS, SCC, Scope of Supply or mentioned elsewhere in the Tender Document, its Corrigendum/Amendment/Clarification(s).
- (s) 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), Bidders manual kit and FAQs available in e-portal and 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 e-tender portal (<https://etenders.gov.in/eprocure/app>) 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 Security/Declaration for Bid Security, copy of Power of Attorney, copy of integrity pact and copy of line of credit (if applicable) should be uploaded in the technical bid in e-tender portal.

Further, Bidders must submit the original " EMD, Power of Attorney, Integrity Pact (wherever applicable), Line of Credit (if applicable) and any other documents specified in the Tender Document to the address mentioned in IFB, in a sealed envelope, superscribing the details of Tender Document (i.e. tender number & tender for) within 7 days from the date of un-priced bid opening.

Bidders are required to submit the EMD 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 7 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 hereinabove and to upload in Financial bid in the e-tender portal.

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

12 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.
- Bidder shall indicate applicable rate of GST (CGST & SGST/ UTGST or IGST) in SOR.
- 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 the designated place in SOR.

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 Contractor 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 Contactor 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, if not registered yet.

However, in case any unregistered bidder is submitting their bid, Bids will be evaluated as per quoted prices without loading of **GST (CGST & SGST/UTGST or IGST)**, if not quoted. 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 Contractor 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 Contractor 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 / black listed, then the bids may be rejected by IGGL. Further, in case rating of bidder is negative / black listed after award of work, then IGGL shall not be obligated or liable to pay or reimburse GST to such and shall also be entitled to deduct / recover such GST along with all penalties / interest, if any, incurred by IGGL.

- 13.12 GST (CGST & SGST/UTGST or IGST) is implemented w.e.f. 01.07.2017 which subsumed various indirect taxes and duties applicable before 01.07.2017. Accordingly, the provisions of General Condition of Contract relating to taxes and duties which are subsumed in GST are modified to aforesaid provisions mentioned in clause no. 12 and 13 of ITB.

- 13.13 GST, as quoted by the bidder in Schedule of Rates, shall be deemed as final and binding for the purpose of bid evaluation (applicable for tenders where bidder quotes 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 “Zero” or quoted GST rate, as the case may be. No request for change in GST will be entertained after submission of bids.

In cases where the 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.

- 13.14 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).

13.15 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-17 along with documents for release of payment.

- 13.16 **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.

- 13.17 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 / Bid Security.

A Bidder agreeing to the request will not be required or permitted to modify his Bid, but will be required to extend the validity of its EMD 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 (i.e **Earnest Money Deposit (EMD)** also known as **Bid Security**) in the form of **'Demand Draft' / 'Banker's Cheque' / 'Insurance Surety Bond** as per the format given in form F 2B' / **'Fixed Deposit Receipt' / e-bank guarantee / letter of credit** [in favour of **Indradhanush Gas Grid Limited** payable at place mentioned in **BDS**] or **'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 The bidder can also submit the EMD through online banking transaction i.e. IMPS/NEFT/RTGS etc. For this purpose, the details of IGGL's Bank Account are mentioned under BDS. 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 bid is likely to be considered as bid not accompanied with EMD. Further, in case of the online transaction, submission of EMD in original is not applicable.
- 16.3 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', the same 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 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.
- 16.4 Any Bid not secured in accordance with "ITB: Clause-16.1 & Clause-16.3" may be rejected by IGGL as non-responsive.
- 16.5 Unsuccessful Bidder's EMD will be discharged/ returned as promptly as possible, but not later than 'thirty [30] days' after finalization of tendering process.
- 16.6 The successful Bidder's EMD will be discharged upon the Bidder's acknowledging the 'Award' and signing the 'Agreement' (if applicable) and furnishing the 'Contract Performance Security (CPS)/ Security Deposit' pursuant to clause no. 38 of ITB.
- 16.7 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

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- 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.
- 16.8 In case EMD is in the form of ‘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.
- 16.9 **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.** Further, Startups are also exempted from the payment of EMD.
- 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**

Start-Ups (to whom exemption is allowed 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)**

- 17.1 The Bidder(s) or his designated representative are invited to attend a "Pre-Bid Meeting" which will be held at address specified in IFB. It is expected that a bidder shall not depute more than 02 representatives for the meeting.
- 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 e-tender portal against the Tenders specified in "ITB: Clause-8. 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 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 unamendable printed literature where entry(s) or amendment(s) have been made shall be initialed by the person or persons signing the Bid.
- 18.2 The Bid shall contain no alterations, omissions, or additions, unless such corrections are initialed 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-III 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.

Bidder is requested not to take any deviation(s)/exception(s) to the terms & conditions of Tender Document, and submit all requisite documents as mentioned in this Tender Document, failing which their Bid 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

Indradhanush Gas Grid Limited has initiated payments to Contractors electronically, and to facilitate the payments electronically through 'e-banking'.

ID1 – 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/ 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 along with bid must be submitted within the due date & time, as specified in Clause no. 2.0 (I) of IFB and place mentioned in BDS.
- 22.3 IGGL may, in exceptional circumstances and at its discretion, extend the deadline for submission of Bids (8.0 and/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 e-tender portal/ 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 GePNIC shall close immediately after the due date for submission of bid and no bids can be submitted thereafter
- 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 in 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 superscribing 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 pursuant to clause 16 of ITB invocation of action as per Bid Security declaration and rejection of Bid.
- 24.4 The latest Bid submitted by the Bidder before Bid Due Date & Time 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 upto 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 bid is determined to be technically and commercially responsive. Techno-commercial bid evaluation status will be are to be informed to all bidders (including informing the 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. The bidder's name, bid price, discount (if any) and any such details considered appropriate shall be read out during the price bid opening. Offers should not, repeat not, be circulated amongst the bidder's representative. Bidders selected for opening of their price bid shall be informed about the date & time of price bid opening. Bidders may depute their authorized representative to witness the price bid opening. The Bidders' representatives, who are present shall sign a Price Bid Opening Register evidencing their attendance and may be required to be present even on a short notice.

26.2.2 The price bids of those Bidders who were not found to be techno-commercially responsive shall not be opened in both manual tendering and e-tendering.

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 bidders or any other person not officially concerned with such a 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 IGGL in bid evaluation, bid comparison or contract award decisions will vitiate the process and will result in the rejection of the bidder's bid and action shall be initiated as per the IGGL's 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 for evaluation of bid.
- 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 incase 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 there quired 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 (i.e. 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 bidder shall be taken as correct and not the amount. 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 E-tendering.

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.

In case of a tie at the lowest bid (L1) position between two or more bidders, the order/LoA will be placed on the bidder who has higher/ highest turnover in last audited financial year. In case there is a tie at the lowest bid (L1) position between only startup bidders and none of them has past turnover, the order/LoA will be placed on the startup who is registered earlier with Department for Promotion of Industry and Internal Trade.

33 COMPENSATION FOR EXTENDED STAY (Not Applicable for this tender)

- 33.1 In the event of the time of completions of work getting delayed beyond the time schedule indicated in the bidding document plus a grace period equivalent to 1/5th of the time schedule or 2 months whichever is more, due to reasons solely attributable to Employer, the Contractor shall be paid compensation for extended stay (ESC) to maintain necessary organizational set up and construction tools, tackles, equipment etc. at site of work.
- 33.2 The bidder is required to specify the rate for ESC on per month basis in the “PRICE PART” of his bid, which shall be considered for loading on total quoted price during price bid evaluation. The loading shall be done of a period of 1/5th of the time schedule or 1 month whichever is less. In case bidder does not indicate the rate for ESC in price part of his bid, it will be presumed that no ESC is required by the bidder and evaluation shall be carried out accordingly.

34 PURCHASE PREFERENCE

Purchase Preference as per Policy to Provide Purchase Preference as per Public Procurement (Preference to Make in India), Order 2017 shall be allowed as per Government instructions in vogue, as applicable from time to time.

The Policy to Provide Purchase Preference as per Public Procurement (Preference to Make in India), Order 2017 is enclosed as Annexure V to ITB herewith.

[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 address on which order 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 without issuing FOA and in such case the Contract shall enter into force on the date of detailed Letter of Acceptance 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 Agreement 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 Deposit / Bid Security', 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 03 days' of receipt of the same, shall sign and return the acknowledged copy to IGGL.

37 SIGNING OF AGREEMENT

- 37.1 The successful Bidder/Contractor shall be required to execute an 'Agreement' (in case the individual contract value as specified in Notification of Award is more than INR 10 Lakhs exclusive of GST) in the proforma given in this Bidding Document on a 'non-judicial stamp paper' of appropriate value [cost of the 'stamp-paper' shall be borne by the successful Bidder/Contractor] and of 'State of India' specified in Bidding Data Sheet (BDS) only, within 'fifteen [15] days' of receipt of the "Fax of Acceptance [FOA]" 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/Security Deposit / Action as per Bid Security declaration.
- 37.3 Bidders can request Bilingual (Hindi & English) Contract Agreement. The format for signing Contract Agreement in English is attached with this Bidding Document.

38 CONTRACT PERFORMANCE SECURITY / SECURITY DEPOSIT [CPS/SD]

- 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 wherein the individual contract value as specified in Notification of Award is less than INR 5 Lakh (exclusive of GST).
- 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 within 30 days of FOA / notification of award.

OR

Initial security deposit (ISD) @ 5% of Total Contract value within 30 days of FOA / notification of award and deduction @ 10% of the RA bill subsequently from the RA bills till the total amount of security deposit (including ISD and deducted amount) reaches 10% of Total Contract value.

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.

- 38.3 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.
- 38.4 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.
- 38.5 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.
- 38.6 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.
- While remitting such online transaction, the bidder must indicate **"Security Deposit/ Contract Performance Security against FOA/DLOA no. _____ (contractor to specify the FOA/DLOA 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.
- 38.7 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.
- 38.8 The Contractor will also submit covering letter along with CPS as per format at F-4.
- 38.9 CPBG/Security Deposit will not be accepted in case the same has reference of 'remitter'/'financer' other than bidder on the aforementioned financial instrument of CPBG/ Security Deposit submitted by the Contractor.
- 38.10 The first payment to vendor is to be released only after submission of CPS / Security Deposit (SD).
- 38.11 Before the CPS / Security Deposit (SD) is released a "No Claim Certificate" is to be submitted by the supplier/vendor.
- 38.12 ***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.***

38.13 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

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-I.

39.2 The Fraud Prevision Policy document is available on IGGL’s website (<https://iggl.co.in>).

39.3 Name and contact details of nodal officer- Refer BDS for details

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

Notwithstanding anything contained contrary in GCC and other "CONTRACT DOCUMENTS", in case it is found that the 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” (Annexure-I to Section-III), the contractor/bidder shall be banned (in terms of aforesaid procedure) from the date of issuance of such order by Indradhanush Gas Grid Limited, 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 Indradhanush Gas Grid Limited, such decision of Indradhanush Gas Grid Limited 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

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.
- 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 Annexure II to ITB herewith.

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.

43.3 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 filed 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, contractor 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 contractor 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 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 related issues /disputes will be monitored and addressed on quarterly basis for resolution. Vendor (hereinafter referred 'Vendor') should first refer any issues/disputes to Engineer-in-Charge(EIC) for LOA/contracts/ Dealing C&P Executive for Purchase Orders and co-operate them for smooth execution of the contract and to timely address the issues, if any. 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 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 from the Panel of Arbitrators maintained by 'Delhi International Arbitration Centre (DIAC) 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 Supplier/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 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 its administrative Ministry/Department, whose decision will be final and binding on all concerned.

The above provisions mentioned at clause no. 44.2 to 44.3 & 45 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

46.0 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 STARTUPS (AS DEFINED IN GAZETTE NOTIFICATION NO. D.L-33004/99 DATED 18.02.2016 AND 23.05.2017 OF MINISTRY OF COMMERCE AND INDUSTRY AND AS AMENDED FROM TIME TO TIME)**

Not Applicable

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 is in process of implementing Vendor Invoice Management (VIM). After implementation of same (to be communicated separately), Contractor/ Vendor to forward the invoice on VIM Collection Center or upload digital invoice on Portal (details of same will be provided separately). The copy of invoice and all other document mentioned above or in order/ contract is to be forwarded to address provided in order/contract.

53. PRICE REDUCTION SCHEDULE

Price Reduction will be applicable @ ½ % of the total executed value per week of delay or part thereof in supply/completion of work subject to a maximum (ceiling) of 5% of total executed value for orders of materials, works, and service contracts.

54. 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.

However, subletting of WHOLE WORKS is prohibited. An undertaking to this effect will be given by Vendor / Contractor along with each invoice / bill.

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:
- a) Whether the management is common;
 - b) Majority interest in the management is held by the partners or directors of banned/ suspended agency;
 - c) Substantial or majority shares are owned by the banned/ suspended agency and by virtue of this it has a controlling voice.
 - d) Directly or indirectly controls, or is controlled by or is under common control with another bidder.
 - e) 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:

S. 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 sl. no. 1 above) /Collusive/Coercive Practices	01 year
2.1	If an agency again commits Corrupt/Fraudulent (except mentioned 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.

**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/ Non stock Non valued items (PO with material code ending with 9).

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 OneYear**
 - (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. 32 (C) of GCC-Works)

(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 twoyears 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 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. 32 (C) of GCC-Works)
- (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) /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 party shall be returned; the offer of the party 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.

Indradhanush Gas Grid Limited
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

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

Indradhanush Gas Grid Limited
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

Annexure-III 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-IV to Section-III

BIDDING DATA SHEET (BDS)

(TO BE FILLED BY THE CONCERNED DEALING OFFICER BEFORE ISSUANCE OF TENDER)

ITB TO BE READ IN CONJUNCTION WITH THE FOLLOWING:

A. GENERAL					
ITB clause	Description				
1.1	The Employer/Owner is: Indradhanush Gas Grid Limited				
2.1	The name of the Works/Services to be performed is: TENDER DOCUMENT FOR LAST MILE CONNECTIVITY WORK INSIDE NUMALIGARH REFINERY LIMITED (NRL) UNDER GUWAHATI-NUMALIGARH PIPELINE (SECTION-1) UNDER NORTH EAST GAS GRID (NEGG) PROJECT OF M/S INDRADHANUSH GAS GRID LIMITED (IGGL)				
3	BIDS FROM CONSORTIUM/ JOINT VENTURE <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>APPLICABLE</td> <td align="center">☒</td> </tr> <tr> <td>NOT APPLICABLE</td> <td align="center">☐</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: <u>Vaidant Bairwa, Dy. GM I/c (Contracts)</u> Street Address: <u>MECON LIMITED</u> Floor/Room number: <u>15th Floor, Scope Minor, District Centre , Laxmi Nagar</u> City: <u>Delhi</u> ZIP Code: <u>110092</u> Country: <u>India</u> Tel no.: <u>011-22401224/ 22401143</u> Email : <u>cont-delhi@meconlimited.co.in</u>				
C. PREPARATION OF BIDS					
ITB clause	Description				
11.1.1 (u)	Additional documents to be submitted by the Bidder with its Part-I (Techno-commercial/ Unpriced bid) : SCC/Scope of Work refers <u>NIL</u>				
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>X</td></tr> <tr> <td>NO</td><td>√</td></tr> </table> Details of Buyer: <table border="1"> <tr> <td>Services to be rendered at</td><td>Indradhanush Gas Grid Limited, Complete Address - Shall be intimated at the time of award.</td></tr> <tr> <td>PAN No.</td><td>AAECI9589F</td></tr> <tr> <td>GST no.</td><td> 18AAECI9589F1ZZ (Assam) 16AAECI9589F1Z3 (Tripura) 17AAECI9589F1Z1 (Meghalaya) 15AAECI9589F1Z5 (Mizoram) 14AAECI9589F1Z7 (Manipur) 13AAECI9589F1Z9 (Nagaland) 12AAECI9589F1ZB (Arunachal Pradesh) 19AAECI9589F1ZX (West Bengal) 11AAECI9589F1ZD (Sikkim) </td></tr> <tr> <td>IGGL Bank details</td><td> Account Holder's Name: INDRADHANUSH GAS GRID LIMITED (IGGL) Bank Name: State Bank of India Account No.: CURRENT A/C NO. 37967639273 IFSC Code: SBIN0003030 BRANCH: DISPUR </td></tr> </table>	YES	X	NO	√	Services to be rendered at	Indradhanush Gas Grid Limited, Complete Address - Shall be intimated at the time of award.	PAN No.	AAECI9589F	GST no.	18AAECI9589F1ZZ (Assam) 16AAECI9589F1Z3 (Tripura) 17AAECI9589F1Z1 (Meghalaya) 15AAECI9589F1Z5 (Mizoram) 14AAECI9589F1Z7 (Manipur) 13AAECI9589F1Z9 (Nagaland) 12AAECI9589F1ZB (Arunachal Pradesh) 19AAECI9589F1ZX (West Bengal) 11AAECI9589F1ZD (Sikkim)	IGGL Bank details	Account Holder's Name: INDRADHANUSH GAS GRID LIMITED (IGGL) Bank Name: State Bank of India Account No.: CURRENT A/C NO. 37967639273 IFSC Code: SBIN0003030 BRANCH: DISPUR
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NO	√												
Services to be rendered at	Indradhanush Gas Grid Limited, Complete Address - Shall be intimated at the time of award.												
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IGGL Bank details	Account Holder's Name: INDRADHANUSH GAS GRID LIMITED (IGGL) Bank Name: State Bank of India Account No.: CURRENT A/C NO. 37967639273 IFSC Code: SBIN0003030 BRANCH: DISPUR												
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' or "Contract Performance Security" is in the form of 'Demand Draft' or 'Banker's Cheque' or 'Insurance Surety Bond' / 'Fixed Deposit Receipt', the same should be favor of Indradhanush Gas Grid Limited, payable at Guwahati, Assam 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 (IGGL) Account Number: CURRENT A/C NO. 37967639273 IFSC Code: SBIN0003030 BRANCH: DISPUR Bank Name: State Bank of India 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.												

D. SUBMISSION AND OPENING OF BIDS					
ITB clause	Description				
18	In addition to the original of the Bid, the number of copies required is one. Not applicable in case of e-tendering.				
22	The E-Tender No. of this bidding process is: 2025 IGGL 253876_1				
22.3, 26 and 4.0 of IFB	For bid submission purposes only (Manual) or the submission of physical document as per clause no. 4.0 of IFB, and Bid Opening Purpose the Owner's address is : Attention: Vaidant Bairwa, Dy. GM I/c (Contracts) Street Address: MECON LIMITED Floor/Room number: 15th Floor, Scope Minor, District Centre , Laxmi Nagar City: Delhi ZIP Code: 110092 Country: India				
E. EVALUATION, AND COMPARISON OF BIDS					
ITB clause	Description				
32	Evaluation Methodology is mentioned in Section-II.				
33	Compensation for Extended Stay: <table border="1"> <tbody> <tr> <td>APPLICABLE</td> <td>☒</td> </tr> <tr> <td>NOT APPLICABLE</td> <td>☐</td> </tr> </tbody> </table>	APPLICABLE	☒	NOT APPLICABLE	☐
APPLICABLE	☒				
NOT APPLICABLE	☐				
34	The following Purchase Preference Policy will be applicable as per provisions mentioned in tender: i) Policy to Provide Purchase Preference as per Public Procurement (Preference to Make in India), Order 2017				
F. AWARD OF CONTRACT					
ITB clause	Description				
37	State of India of which stamp paper is required for Contract Agreement: Assam Guwahati				
38	Contract Performance Security/ Security Deposit <table border="1"> <tbody> <tr> <td>APPLICABLE</td> <td>☒</td> </tr> <tr> <td>NOT APPLICABLE</td> <td>☐</td> </tr> </tbody> </table> The value/ amount of Contract Performance Security/ Security Deposit: Procurement of Works (including LSTK/ EPC Contracts) except Rate Contracts:	APPLICABLE	☒	NOT APPLICABLE	☐
APPLICABLE	☒				
NOT APPLICABLE	☐				

	SD / CPBG @ 10% of Total Order / Contract value within 30 days of FOA / notification of award. OR Initial security deposit (ISD) @ 5% of Total Contract value within 30 days of FOA / notification of award and deduction @ 10% of the RA bill subsequently from the RA bills till the total amount of security deposit (including ISD and deducted amount) reaches 10% of Total Contract value. Order value as mentioned above will be exclusive of GST.				
39.2	Name and contact details of nodal officer are as under: Shri. Kulajit Talukdar Email: kulajit.talukdar@iggl.co.in				
Annexure-V to Section-III (PP-LC Policy)	Whether tendered item is non-split able 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	☒				
Clause no. 27.3 of GCC	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 Startups: <table border="1"> <tr> <td>APPLICABLE</td><td>x</td></tr> <tr> <td>NOT APPLICABLE</td><td>√</td></tr> </table>	APPLICABLE	x	NOT APPLICABLE	√
APPLICABLE	x				
NOT APPLICABLE	√				
SCC	Documents required for accepting the Works: Refer cl.no. 24 of SCC.				

ANNEXURE-V TO SECTION-III

POLICY TO PROVIDE PURCHASE PREFERENCE AS PER PUBLIC PROCUREMENT (PREFERENCE TO MAKE IN INDIA), ORDER 2017

- 1.0 Ministry of Petroleum & Natural Gas vide Notification No. FP-20013/2/2017-FP-PNG-Part(4) (E-17013) dated 21.08.2024 has notified the Public Procurement (Preference to Make in India), Order 2017 (PPP-MII)-Revision issued by DPIIT on 19.07.2024.

The following modifications as per Notification No. FP-20013/2/2017-FP-PNG-Part(4) (E-41432) dated 26.04.2022 from MoP&NG and incorporated in Para 1.0 above shall continue:

- Limit for exemption of small purchase under para 4 of the PPP-MII Order, 2017 shall be Rs. 1 Crore.
- HP-HT operation in upstream oil and gas turbines activities shall be exempted from applicability of the Order.

Whereas, in respect of Local value addition through services, as per communication no. F.No. FP-20013/2/2017-FP-PNG-Part(4) (E-41432) dated 26.03.2024 of MoP&NG, the same is modified as under:

Local Value addition through services such as transportation, insurance, installation, commissioning, training and after sales services support like AMC/CMC etc. shall continue to be considered in local content calculation and the scope of this relaxation shall be limited to the items (as per list enclosed) to be installed/operated in flammable environment of Oil and Gas processing industry.

- 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.

3.0 **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.

Local Value addition through services such as transportation, insurance, installation, commissioning, training and after sales services support like AMC/CMC etc. shall continue to be considered in local content calculation and the scope of this relaxation shall be limited to the items (as per list enclosed) to be installed/operated in flammable environment of Oil and Gas processing industry.

Explanatory notes for calculation of local content given below:

- a) Imported items sourced locally from resellers/distributors shall be excluded from calculation of local content.

- b) The license fees/royalties paid/ technical charges paid out of India shall be excluded from local content calculation.
- c) Procurement/Supply of repackaged/refurbished/rebranded imported products as understood commonly shall be treated as reselling of imported products and shall be excluded from calculation of local content. The definition of repackaged/refurbished/rebranded imported products is as follows :

'Refurbishing' means repair or reconditioning of an imported product does not amount to manufacture because no new goods come into existence.

'Repackaging' means repacking of imported goods from bulk pack to smaller packs would not ordinarily amount to manufacture of a new item.

'Rebranding' means relabeling or renaming or change in symbol or logo/ makes or corporate image of a company/ organization/ firm for an imported product would amount to rebranding.

- d) To ensure that imported items sourced locally from resellers/distributors are excluded from calculation of local content, procuring entities to obtain from bidders, the cost of such locally-sourced imported items (Inclusive of taxes) along with break-up on license/royalties paid/technical expertise cost etc. sourced from outside India. For items sold by bidder as reseller, OEM certificate for country of origin to be submitted.
 - e) For contracts involving supply of multiple items, weighted average of all items to be taken while calculating the local content.
- (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)
- (vi) **Works** means all the works as per Rule 130 of GFR-2017 also include 'turnkey works'

3A Special treatment for items covered under PLI Scheme

The manufacturers manufacturing an item under PLI scheme shall be treated as deemed Class II local supplier for that item unless they have minimum local content equal to or higher than that notified for Class-I local supplier for that item, provided the manufacturer has received incentive from the concerned PLI Ministry for the Item. The above shall be applicable for the specific time period only, as notified by concerned PLI Ministry.

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 MANDATORY SOURCING OF ITEMS, WITH SUFFICIENT LOCAL CAPACITY AND COMPETITION, FROM CLASS-I LOCAL SUPPLIERS IN SI/EPC/TURNKEY CONTRACTS/SERVICE TENDERS

- (a) The items, notified as having sufficient local capacity and competition, shall mandatory be sourced from Class-I local suppliers in SI/EPC/Turnkey Contracts/ Services tenders. This provision will be applicable only for those items which have been notified by the Nodal Ministry as Class I i.e. having sufficient local capacity and competition, with specific HSN codes."
- (b) Notwithstanding above, if in any project, it is considered that it is not practically feasible to source such items from Class I local suppliers, it may take relaxation from such stipulation with the approval of Secretary of the administrative Ministry/ Department concerned or with the approval of the Competent Authority specified by the Administrative Ministry/Department, on case-specific basis.

7.0 PURCHASE PREFERENCE METHODOLOGY UNDER PPP-MII

- (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 cover 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.
 - iii. “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, 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.

8.0 EXEMPTION IN SOURCING OF SPARES AND CONSUMABLES OF CLOSED SYSTEMS FOR PURCHASE PREFERENCE

Procurement of spare parts/consumables and Maintenance/ Service contracts with Original Equipment Manufacturer/Original Equipment Supplier/Original Part Manufacturer shall be exempted from this Order.

9.0 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 per proforma at Form-1) 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. In cases of procurement for a value in excess of Rs. 10 crores, in addition to Form-1 'Class-I local supplier'/'Class-II local supplier' shall be required to provide a certificate 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 suppliers other than companies) giving the percentage of local content as per proforma at Form -2.

The bidder shall give self-certification for local content in the quoted item (goods/works/services) at the time of tendering. However, at the time of execution of the project, for all contracts above INR 10 Crore, the contractor/ supplier shall be required to give local content certification duly certified by cost/ chartered accountant in practice. For cases where it is not possible to provide certification by Cost/Chartered Accountant at the time of execution of project, the supplier shall be permitted to provide the certificate for local content from Cost/ Chartered Accountant after completion of the contract, within time limit acceptable to the procuring entity. In case the contractor/ supplier does not meet the stipulated local content requirement and the category of the supplier changes from Class-I to Class-II/ Non-local or from Class-II to Non-local, a penalty upto 10% of the contract value may be imposed. However, contract once awarded shall not be terminated on this account.

- 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.

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

VOID

**SELF CERTIFICATION BY BIDDER WHO CLASS-I LOCAL SUPPLIER/ CLASS-II
LOCAL SUPPLIER TOWARDS MANDATORY MINIMUM LOCAL CONTENT/
DOMESTIC VALUE ADDITION
(APPLICABLE FOR ALL BIDDERS INCLUDING MSEs)**

To,

M/s Indradhanush Gas Grid Limited
7th Floor , NRL Centre , G S Road, Christian Basti , Guwahati , Assam – 781005

**SUB: TENDER DOCUMENT FOR LAST MILE CONNECTIVITY WORK INSIDE
NUMALIGARH REFINERY LIMITED (NRL) UNDER GUWAHATI-NUMALIGARH
PIPELINE (SECTION-1) UNDER NORTH EAST GAS GRID (NEGG) PROJECT OF M/S
INDRADHANUSH GAS GRID LIMITED (IGGL)**

TENDER NO: 05/51/23VC/IGGL/001(i)-NRL (Tender ID No. 2025_IGGL_253876_1)

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

FORM-3

CERTIFICATE BY STATUTORY AUDITOR/COST AUDITOR/ CHARTERED
ACCOUNTANT OF BIDDER TOWARDS MANDATORY MINIMUM LOCAL
CONTENT/ DOMESTIC VALUE ADDITION
(APPLICABLE FOR ALL BIDDERS INCLUDING MSEs)

VOID

ANNEXURE-VI TO SECTION-III

PROVISION REGARDING POLICY TO PROVIDE PREFERENCE TO DOMESTICALLY MANUFACTURED IRON & STEEL PRODUCTS (DMI&SP)



भारत का राजपत्र The Gazette of India

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EXTRAORDINARY

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PART II—Section 3—Sub-section (i)

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इस्पात मंत्रालय

अधिसूचना

नई दिल्ली, 26 मई, 2025

सा.का.नि. 341(अ).— घरेलू स्तर पर विनिर्मित पूर्ववर्ती लौह एवं इस्पात उत्पाद नीति के अधिक्रमण में, सरकारी अधिप्राप्ति में घरेलू स्तर पर विनिर्मित लौह एवं इस्पात उत्पादों को वरीयता प्रदान करने के लिए संशोधित घरेलू स्तर पर विनिर्मित लौह एवं इस्पात उत्पाद नीति-2025 को आम सूचना के लिए एतद्वारा प्रकाशित किया जाता है।

सरकारी अधिप्राप्ति में घरेलू स्तर पर विनिर्मित लौह एवं इस्पात उत्पादों को वरीयता देने के लिए नीति -
संशोधित, 2025

1. पृष्ठभूमि

1.1 यह नीति सरकारी अधिप्राप्ति में घरेलू स्तर पर विनिर्मित लौह एवं इस्पात उत्पादों (डीएमआईएंडएसपी) को वरीयता देती है।

1.2 यह नीति परिशिष्ट क में अधिसूचित लौह एवं इस्पात उत्पादों की खरीद पर लागू होती है। परिशिष्ट ख में, लौह एवं इस्पात उत्पादों के विनिर्माण के लिए न्यूनतम घरेलू सामग्री और पूंजीगत वस्तुओं

की छूट प्राप्त सूची सूचीबद्ध की गई है, जिन्हें आयात किया जा सकता है। परिशिष्ट ग में स्वदेशी प्रौद्योगिकी आपूर्तिकर्ताओं से प्रौद्योगिकी की खरीद को बढ़ावा देने की नीति शामिल है।

2. परिभाषाएं

- 2.1 **बोलीदाता** लौह एवं इस्पात का कोई घरेलू/विदेशी विनिर्माता अथवा उनके बिक्री एजेंट/अधिकृत वितरक/अधिकृत डीलर/अधिकृत आपूर्ति गृह अथवा सरकारी एजेंसियों द्वारा वित्त पोषित परियोजनाओं में बोली लगाने में कार्यरत कोई अन्य कंपनी हो सकती है।
- 2.2 **घरेलू स्तर पर विनिर्मित लौह एवं इस्पात उत्पाद (डीएमआईएंडएसपी)** वे लौह एवं इस्पात उत्पाद हैं जिनका विनिर्माण उन प्रतिष्ठानों द्वारा किया जाता है जो भारत में पंजीकृत और स्थापित हैं, जिसमें विशेष आर्थिक क्षेत्र (एसईजैड) शामिल हैं।
- 2.3 **घरेलू विनिर्माता** खंड 7 में दिशा निर्देशों और केंद्रीय उत्पाद शुल्क अधिनियम के अनुसार 'विनिर्माता' की परिभाषा के अनुरूप लौह एवं इस्पात उत्पादों का एक विनिर्माता है।
- 2.4 **घरेलू मूल्य संवर्धन** का अर्थ है - भारत में जोड़े गए मूल्य की राशि जो अधिप्राप्त की जाने वाली वस्तु के कुल मूल्य (शुद्ध घरेलू अप्रत्यक्ष करों को छोड़कर) में से अधिप्राप्त की जाने वाली वस्तु के कुल मूल्य के अनुपात के रूप में वस्तु में आयातित सामग्री के मूल्य (सभी सीमा शुल्कों सहित) को घटाकर प्रतिशत में प्राप्त होगी। 'घरेलू मूल्य संवर्धन' की परिभाषा डीपीआईआईटी दिशा-निर्देशों के अनुरूप होगी और भविष्य में डीपीआईआईटी द्वारा किसी भी बदलाव के मामले में इसे उपयुक्त रूप से संशोधित किया जाएगा। इस नीति दस्तावेज के उद्देश्य के लिए, घरेलू मूल्य संवर्धन और स्थानीय सामग्री का परस्पर उपयोग किया गया है।

% घरेलू मूल्य संवर्धन =

{अधिप्राप्त की जाने वाली वस्तु का कुल मूल्य (शुद्ध घरेलू अप्रत्यक्ष करों को छोड़कर) - वस्तु में आयातित सामग्री का मूल्य (सभी सीमा शुल्कों सहित)}

----- X 100%

{अधिप्राप्त की जाने वाली वस्तु का कुल मूल्य}

- 2.5 **तैयार इस्पात** (फिनिश स्टील) का तात्पर्य सपाट और लंबे उत्पादों से होगा, जिन्हें बाद में प्रसाधित कर विनिर्मित वस्तु बनाया जा सकता है।
- 2.6 इस नीति के प्रयोजन से **सरकार** का तात्पर्य भारत सरकार से है।
- 2.7 **सरकारी एजेंसियों** में सरकार के सार्वजनिक क्षेत्र के उपक्रम, भारत सरकार द्वारा स्थापित सोसायटी, ट्रस्ट और सांविधिक निकाय शामिल हैं।
- 2.8 **स्वदेशी प्रौद्योगिकी**: किसी प्रौद्योगिकी को स्वदेशी प्रौद्योगिकी माना जाएगा यदि, इकाई की कम से कम 51% इक्विटी भारतीय निवासियों के पास हो और आईपीआर का स्वामित्व या सह-स्वामित्व

किसी भारतीय इकाई के पास हो या विशेष रूप से उन्हें लाइसेंस प्राप्त हो तथा मुख्य इंजीनियरिंग अनुसंधान एवं विकास और परियोजना निष्पादन क्षमताएं भारत में हों।

2.9 एल1 का तात्पर्य निविदा अथवा अन्य अधिप्राप्ति अनुरोध के अनुसार मूल्यांकन प्रक्रिया में यथाघोषित निविदा, बोली लगाने संबंधी प्रक्रिया अथवा अन्य अधिप्राप्ति अनुरोधों में प्राप्त न्यूनतम निविदा अथवा न्यूनतम बोली अथवा न्यूनतम भाव से होगा।

2.10 एमओएस का आशय इस्पात मंत्रालय, भारत सरकार से है।

2.11 खरीद वरीयता के मार्जिन का तात्पर्य उस अधिकतम सीमा से है जिस सीमा तक किसी घरेलू आपूर्तिकर्ता द्वारा लगाई गई कीमत खरीद वरीयता के प्रयोजन से एल1 से अधिक हो। डीएमआईएंडएसपी नीति के मामले में, खरीद वरीयता का मार्जिन परिशिष्ट ख में मदों के लिए 20% होगा।

2.12 मेल्ट एंड पोर को एक ऐसे इस्पात के रूप में परिभाषित किया गया है जिसे इस्पात बनाने वाले फर्नेस में उत्पादित किया जाता है और इसे अपने पहले ठोस आकार में डाला जाता है। जिस स्थान पर यह प्रक्रिया होती है उसे मेल्ट एंड पोर का उद्गम स्थल (सीओएम) कहा जाता है। सीओएम वह मूल स्थान है जहाँ कूड इस्पात को पहली बार तरल अवस्था में उत्पादित किया जाता है और इसे अपने पहले ठोस आकार में डाला जाता है। पहला ठोस आकार एक अर्ध-तैयार उत्पाद जैसे स्लेब, बिलेट, पिंड या एक तैयार इस्पात मिल उत्पाद हो सकता है।

2.13 निवल बिक्री मूल्य इन्वॉइस मूल्य होगा जिसमें निवल घरेलू कर और शुल्क शामिल नहीं होंगे।

2.14 अर्ध-तैयार इस्पात (सेमी-फिनिशड स्टील) का तात्पर्य इनगोट्स, बिलेट्स, ब्लूम्स और स्लेब्स से है, जिसे बाद में प्रसाधित कर तैयार इस्पात बनाया जा सकता है। पल

3. अपवर्जन

3.1 इस्पात मंत्रालय द्वारा इस प्रकार की सभी सरकारी अधिप्राप्ति के लिये निम्नलिखित शर्तों के अध्यधीन छूट प्रदान की जा सकती है।

3.1.1 जहां विशिष्ट ग्रेडों के इस्पात का निर्माण इस देश में नहीं किया जाता हो, अथवा

3.1.2 जहां परियोजना की मांग के अनुसार इन मात्राओं को घरेलू स्रोतों के माध्यम से पूरा नहीं किया जा सकता हो।

3.2 छूट संबंधी अनुरोध लौह एवं इस्पात उत्पादों की घरेलू स्तर पर अनुपलब्धता के पर्याप्त प्रमाण के साथ स्थायी समिति के समक्ष प्रस्तुत किए जाएंगे।

4. स्थायी समिति

4.1 सचिव (इस्पात) की अध्यक्षता में एक स्थायी समिति नीति के कार्यान्वयन को देखेगी।

4.2. इस समिति में उद्योग/उद्योग संघ/सरकारी संस्था अथवा निकाय/इस्पात मंत्रालय (एमओएस) से लिए गए विशेषज्ञ शामिल होंगे। इस्पात मंत्रालय में उक्त समिति के पास निम्नलिखित के लिए अधिदेश होगा:

- 4.2.1 नीति के कार्यान्वयन की निगरानी करना।
- 4.2.2 परिशिष्ट क, परिशिष्ट ख और परिशिष्ट ग में उल्लिखित लौह एवं इस्पात उत्पादों की सूची, घरेलू सामग्री आवश्यकता मानदंड और नीति निर्देशों की समीक्षा करना और उन्हें अधिसूचित करना।
- 4.2.3 पैरा 3 के अनुसार प्रापण एजेंसियों को अपवर्जन की स्वीकृति देने सहित इस नीति के कार्यान्वयन के लिए आवश्यक स्पष्टीकरण जारी करना।
- 4.2.4 इस नीति के कार्यान्वयन से संबंधित शिकायतों की प्रारंभिक जांच के लिए एक शिकायत निवारण समिति का गठन करना।
- 4.2.5 अधिप्राप्ति एजेंसी द्वारा इस नीति का अनुपालन न किए जाने की स्थिति में संबंधित मंत्रालयों/विभागों को उचित कार्रवाई के लिए निर्देश जारी करना और सलाह देना।
- 4.3 जहां भी प्रापण इकाई इस निष्कर्ष पर पहुंचती है कि उपलब्ध बोलीदाता/विनिर्माता द्वारा अनुचित रूप से उच्च मूल्य निर्धारित किया गया है, तो मामले को स्थायी समिति को भेजा जा सकता है। ऐसे मामलों में, प्रापण इकाई को अपने मामले को पूर्ण और विस्तृत दस्तावेजों के साथ प्रमाणित करना होगा।
- 4.4 बोली दस्तावेज में विदेशी प्रमाणन/अनुचित तकनीकी विनिर्देश निर्दिष्ट करना स्थानीय आपूर्तिकर्ताओं के विरुद्ध प्रतिबंधात्मक और भेदभावपूर्ण व्यवहार है। यदि भारतीय मानकों की अनुपलब्धता और/या किसी अन्य कारण से विदेशी प्रमाणन निर्धारित करना आवश्यक है, तो ऐसा समिति की लिखित स्वीकृति के बाद ही किया जाएगा।

5. प्रयोज्यता

- 5.1 यह नीति सरकार के प्रत्येक मंत्रालय अथवा विभाग और उनके प्रशासनिक नियंत्रणाधीन सभी एजेंसियों/इकाइयों तथा सरकारी परियोजनाओं के लिए लौह एवं इस्पात उत्पादों की खरीद हेतु इन एजेंसियों द्वारा वित्त पोषित परियोजनाओं पर लागू है। केन्द्रीय क्षेत्र की सभी योजनाएं (सीएस)/ केन्द्रीय प्रायोजित योजनाएं (सीएसएस) जिनके लिए राज्यों और स्थानीय निकायों द्वारा खरीद की जाती है, इस नीति की परिधि में आएंगी, यदि उस परियोजना/योजना को भारत सरकार द्वारा पूर्णतया/अंशतः वित्तपोषित किया जाता है।
- 5.2 यह नीति सार्वजनिक क्षेत्रों के इस्पात विनिर्माताओं और उनके प्रशासनिक नियंत्रणाधीन एजेंसियों/इकाइयों पर लौह एवं इस्पात उत्पादों के विनिर्माण के लिए पूंजीगत मालों (परिशिष्ट-ख) की अधिप्राप्ति के लिए लागू है।
- 5.3 परिशिष्ट-ख में लौह एवं इस्पात उत्पादों के निर्माण में उपयोग किए जाने वाले पूंजीगत माल की छूट संबंधी सूची दर्शाई गई है, जिन्हें आयात किया जा सकता है, तथा संबंधित पैकेजों के लिए न्यूनतम घरेलू मूल्य संवर्धन आवश्यकता बताई गई है। पूंजीगत माल के लिए घरेलू मूल्य संवर्धन, जैसा कि

दर्शाया गया है, परिवर्तन के अधीन है; उदाहरण के लिए, यदि देश में कुछ पूंजीगत माल घटकों का विनिर्माण किया जाता है, तो घरेलू मूल्य संवर्धन प्रतिशत बढ़ सकता है।

- 5.4 इस्पात विनिर्माण में उपयोग किए जाने वाले पूंजीगत माल के लिए 20% की खरीद वरीयता लागू है। उदाहरण के लिए, यदि आयात योग्य पूंजीगत माल के लिए न्यूनतम बोलीदाता (एल1) कोई विदेशी कंपनी है, जिसने उत्पाद पैकेज के लिए 100 करोड़ रुपये की कीमत बताई है, तो नीति के तहत, समान पूंजीगत माल के घरेलू आपूर्तिकर्ता के लिए 20% की खरीद वरीयता लागू होगी।
- 5.5 परिशिष्ट-ग में इस्पात बनाने वाले सीपीएसई के लिए स्वदेशी प्रौद्योगिकी आपूर्तिकर्ताओं से खरीद करने के निर्देश और कार्यप्रणाली दी गई है।
- 5.6 यह नीति उन परियोजनाओं और गैर-परियोजनाओं पर लागू होगी, जहाँ किसी संविदा में लौह एवं इस्पात उत्पादों (परिशिष्ट-क) का कुल अधिप्राप्ति मूल्य मदवार आधार पर 5 लाख रुपये से अधिक है।
- 5.7 लौह एवं इस्पात उत्पादों की अधिप्राप्ति से संबंधित निविदाओं के लिए कोई वैश्विक निविदा इन्क्वायरी (जीटीई) आमंत्रित नहीं की जाएगी (डीएमआईएंडएसपी नीति का परिशिष्ट-क)। लौह एवं इस्पात उत्पादों के विनिर्माण जिनका अनुमानित मूल्य 200 करोड़ रु. तक हो, (डीएमआईएंडएसपी नीति के परिशिष्ट-ख) के लिए पूंजीगत माल की अधिप्राप्ति से संबंधित निविदाओं के लिए कोई वैश्विक निविदा इन्क्वायरी (जीटीई) व्यय विभाग द्वारा यथा नाम-निर्दिष्ट सक्षम प्राधिकारी के अनुमोदन के अलावा आमंत्रित नहीं की जाएगी।
- 5.8 यह नीति सरकार के मंत्रालय अथवा विभाग अथवा उनके सार्वजनिक क्षेत्र के उपक्रमों की किसी ईपीसी संविदा और/ अथवा अन्य आवश्यकता को पूरा करने के लिए को पूरा करने के लिए निजी एजेंसियों द्वारा लौह एवं इस्पातों की अधिप्राप्ति पर लागू है।

6. अधिप्राप्ति के लिए निविदा प्रक्रिया

- 6.1 प्रापण एजेंसियां डीएमआईएंडएसपी नीति का पालन करते समय वित्त मंत्रालय और सीवीसी के अनुदेशों के अनुसार मानक अधिप्राप्ति संबंधी प्रक्रियाओं का पालन करेगी।
- 6.2 माल की अधिप्राप्ति के साथ-साथ ईपीसी संविदाओं के लिए निविदा दस्तावेज में परिशिष्ट क और परिशिष्ट ख में उल्लिखित आवश्यकताओं के अनुपालन के लिए योग्यता मानदंड को स्पष्ट रूप से रेखांकित किया जाना चाहिए।
- 6.3 परिशिष्ट-क और परिशिष्ट-ख के तहत आने वाले उत्पादों के घरेलू विनिर्माताओं को बोली लगाते समय नीति में निर्धारित फॉर्म-1 के अनुसार स्थानीय सामग्री का स्व-प्रमाणन करना होगा।
- 6.4 वे बोलीदाता जो परिशिष्ट-क के अंतर्गत आने वाले लौह एवं इस्पात उत्पादों के घरेलू विनिर्माताओं के विक्रय एजेंट/अधिकृत वितरक/अधिकृत डीलर/अधिकृत आपूर्ति घर हैं, वे नीति के अंतर्गत घरेलू विनिर्माताओं की ओर से स्व-प्रमाणन के साथ बोली लगाने के लिए पात्र हैं, बशर्ते कि बोलीदाता डिलीवरी के समय घरेलू विनिर्माता द्वारा जारी किया गया प्राधिकरण प्रमाणपत्र प्रस्तुत करें।

- 6.5 डीएमआईएंडएसपी नीति के परिशिष्ट ख के अंतर्गत आने वाले उत्पादों के लिए बोलीदाता को कंपनी के सांविधिक लेखापरीक्षक या लागत लेखापरीक्षक (कंपनियों के मामले में) या किसी व्यवसायिक लागत लेखाकार या व्यवसायिक चार्टर्ड अकाउंटेंट (कंपनियों के अलावा आपूर्तिकर्ताओं के संबंध में) द्वारा जारी प्रमाणीकरण प्रस्तुत करना होगा, जिसमें यह घोषित किया जाएगा कि लौह एवं इस्पात उद्योग में उपयोग किए जाने वाले पूंजीगत माल निर्धारित घरेलू मूल्य संवर्धन के अनुसार घरेलू स्तर पर विनिर्मित किए गए हैं।
- 6.6 यदि किसी वस्तु के भारतीय आपूर्तिकर्ताओं को किसी विदेशी सरकार द्वारा अधिप्राप्ति में भाग लेने और/या प्रतिस्पर्धा करने की अनुमति नहीं है, क्योंकि निविदा की कुछ प्रतिबंधात्मक शर्तें हैं, जिनका प्रत्यक्ष या अप्रत्यक्ष रूप से भारतीय कंपनियों पर प्रतिबंध है, जैसे अधिप्राप्ति करने वाले देश में पंजीकरण, अधिप्राप्ति करने वाले देश में विशिष्ट मूल्य की परियोजनाओं का निष्पादन आदि, तो वे उचित पारस्परिक प्रापण संस्थाओं को ऐसे विवरण उपलब्ध कराएंगे।
- 6.7 इस्पात मंत्रालय द्वारा उन देशों की संस्थाओं की पहचान की गई है जो भारतीय कंपनियों को इस्पात मंत्रालय से संबंधित किसी भी वस्तु के लिए अपनी सरकारी अधिप्राप्ति में भाग लेने की अनुमति नहीं देते हैं, उन्हें इस्पात मंत्रालय से संबंधित सभी वस्तुओं के लिए भारत में सरकारी अधिप्राप्ति में भाग लेने की अनुमति नहीं दी जाएगी, सिवाय इस्पात मंत्रालय द्वारा प्रकाशित उन वस्तुओं की सूची के जो उन्हें भाग लेने की अनुमति देती हैं।
- 6.8 उपरोक्त अनुबंध जैम पोर्टल सहित केन्द्र सरकार की प्रापण संस्थाओं द्वारा आमंत्रित सभी निविदाओं का हिस्सा होगी।
- 6.9 यदि बोली दस्तावेजों में घरेलू आपूर्तिकर्ताओं के खिलाफ प्रतिबंधात्मक या भेदभावपूर्ण शर्तें शामिल की जाती हैं, तो अधिप्राप्ति करने वाले प्रशासनिक विभाग (इसके प्रशासनिक नियंत्रण के तहत किसी भी इकाई द्वारा अधिप्राप्ति सहित) द्वारा इसकी जिम्मेदारी तय करने के लिए जांच की जाएगी। इसके बाद, संबंधित प्रावधानों के तहत प्रापण संस्थाओं के दोषी अधिकारियों के खिलाफ प्रशासनिक या अन्यथा उचित कार्रवाई की जाएगी। ऐसी सभी कार्रवाई की सूचना डीएमआईएंडएसपी नीति के तहत स्थायी समिति को भेजी जाएगी।
- 6.10 इस आदेश के उल्लंघन के लिए किसी प्रापण इकाई द्वारा प्रतिबंधित आपूर्तिकर्ता प्रतिबंध की अवधि के दौरान किसी अन्य अधिप्राप्ति करने वाली इकाई द्वारा अधिप्राप्ति के लिए इस आदेश के तहत वरीयता के लिए पात्र नहीं होगा। ऐसी अन्य प्रापण संस्थाओं के लिए प्रतिबंध उस तारीख से प्रभावी होगा जिस दिन यह अन्य अधिप्राप्ति करने वाली संस्थाओं के ध्यान में आता है।
- 6.11 यदि, इस मामले को इस्पात मंत्रालय के पास भेजा जाता है, तब इस्पात मंत्रालय के अधीन गठित शिकायत निवारण समिति सरकारी एजेंसी के दृष्टिकोण पर विचार करने के बाद बोलीदाता से सभी दस्तावेजों के प्राप्त होने और उसका संदर्भ भेजे जाने के 4 सप्ताह के भीतर शिकायत का निपटारा

करेगी। बोलीदाता से यह अपेक्षित होगा कि वे इस मामले के संदर्भ के 2 सप्ताह के भीतर इस्पात मंत्रालय के अंतर्गत शिकायत निवारण समिति को लौह एवं इस्पात उत्पादों में दावा किए गए घरेलू मूल्यवर्धन के समर्थन में आवश्यक दस्तावेज प्रस्तुत करें।

6.12 निविदा दस्तावेज में निर्धारित घरेलू मूल्यवर्धन का बोलीदाता के द्वारा गलत घोषणा किए जाने की स्थिति में प्रापण ऐजेंसी शास्ती को स्पष्ट रूप से परिभाषित करेगी। इस शास्ती में ऐसे विनिर्माता/सेवा प्रदाता आदि की ईएमडी को जब्त करना, अन्य वित्तीय शास्ती लगाना और उसे ब्लेकलिस्ट किया जाना शामिल हो सकता है।

7. इस्पात मंत्रालय द्वारा कार्यान्वयन की निगरानी

- 7.1 इस नीति के प्रावधान प्रकाशन की तिथि से 5 वर्षों की अवधि के लिए लागू रहेंगे और इस नीति की अवधि को इस्पात मंत्रालय के विवेक से और आगे बढ़ाया जा सकता है।
- 7.2 इस्पात मंत्रालय इस नीति के कार्यान्वयन की निगरानी करने के लिए नोडल मंत्रालय होगा।
- 7.3 डीएमआईएंडएसपी नीति के अंतर्गत सभी एजेंसियां तिमाही आधार पर घोषणा पत्र भेजेगी जिसमें पिछले वित्तीय वर्ष के दौरान इस नीति के अनुपालन की सीमा और उसके अनुपालन न किए जाने के कारणों को दर्शाया जायेगा।

अनुलग्नक-क

लौह एवं इस्पात उत्पादों की सूची जिनकी अधिप्राप्ति केवल घरेलू स्रोतों से की जा सकती है

क्र.सं.	लौह एवं इस्पात उत्पाद	एचएस कोड	स्थिति
1	600 मि.मी. अथवा उससे अधिक की चौड़ाई वाले लौह अथवा गैर-मिश्रधातु इस्पात के फ्लैट रोल्ड उत्पाद, हॉट रोल्ड, नॉट क्लेड, प्लेट लगाया हुआ अथवा कोट किया हुआ	7208	मेल्ट एंड पोर
2	600 मि.मी. अथवा उससे अधिक की चौड़ाई वाले लौह अथवा गैर-मिश्रधातु इस्पात के फ्लैट रोल उत्पाद, कोल्ड रोल्ड (रिड्यूज्ड किया हुआ), नॉट क्लेड, प्लेट लगाया हुआ अथवा कोट किया हुआ	7209	मेल्ट एंड पोर
3	600 मि.मी. अथवा उससे अधिक की चौड़ाई वाले लौह अथवा गैर-मिश्रधातु इस्पात का फ्लैट रोल उत्पाद, क्लेड, प्लेट लगाया हुआ अथवा कोट किया हुआ	7210	मेल्ट एंड पोर
4	600 मि.मी. से कम की चौड़ाई वाले लौह अथवा गैर-मिश्रधातु इस्पात का फ्लैट रोल उत्पाद, नॉट क्लेड, प्लेट लगाया हुआ अथवा कोट किया हुआ	7211	मेल्ट एंड पोर

5	600 मि.मी. कम की चौड़ाई का लौह अथवा गैर-मिश्रधातु इस्पात का फ्लैट रोल उत्पाद, क्लेड, प्लेट लगाया हुआ अथवा कोट किया हुआ	7212	मेल्ट एंड पोर
6	लौह एवं गैर-मिश्रधातु इस्पात का अनियमित रूप से वूंड क्वाइल में बार्स और रॉड, हॉट रोल्ड	7213	मेल्ट एंड पोर
7	लौह अथवा गैर-मिश्रधातु इस्पात के अन्य बार्स और रॉड्स जिसे फोर्ज किए जाने की तुलना में आगे अधिक वर्क नहीं किया हुआ, हॉट रोल्ड, हॉट ड्रॉन अथवा हॉट एक्सट्रूडेड परंतु रोलिंग के बाद उसे टिविस्ट किये जाने सहित	7214	मेल्ट एंड पोर
8	लौह अथवा गैर-मिश्रधातु इस्पात का अन्य बार्स एंड रॉड्स	7215	मेल्ट एंड पोर
9	लौह अथवा गैर-मिश्रधातु इस्पात का एंगल, शेप और सेक्शन्स	7216	मेल्ट एंड पोर
10	लौह अथवा गैर-मिश्रधातु इस्पात का वायर	7217	मेल्ट एंड पोर
11	600 मि.मी. अथवा उससे अधिक की चौड़ाई का स्टेनलैस इस्पात का फ्लैट रोल्ड इस्पात	7219	मेल्ट एंड पोर
12	600 मि.मी. से कम की चौड़ाई का स्टेनलैस इस्पात का फ्लैट रोल्ड इस्पात	7220	मेल्ट एंड पोर
13	स्टेनलैस स्टील के अन्य बार्स और रॉड्स; स्टेनलैस स्टील का एंगल शेप और सेक्शन्स	7222	मेल्ट एंड पोर
14	अन्य मिश्रधातु इस्पात के वायर	7229	मेल्ट एंड पोर
15	लौह अथवा इस्पात को रेल, रेलवे अथवा ट्रामवे ट्रेक निर्माण सामग्री	7302	मेल्ट एंड पोर
16	कास्ट लौह के ट्यूब, पाइप और हॉलो पाइप	7303	मेल्ट एंड पोर
17	लौह (कास्ट आयरन को छोड़कर) अथवा इस्पात के ट्यूब पाइप और हॉलो प्रोफाइल, सीमलैस	7304	मेल्ट एंड पोर
18	लौह अथवा इस्पात के सर्कुलर क्रॉस सेक्शन वाले अन्य ट्यूब और पाइप (उदाहरण के लिए, वेल्ड किया हुआ, रिबेट किया हुआ अथवा समान रूप से बंद किया हुआ), जिसकी बाहरी त्रिज्या 406.4 मि.मी. से अधिक हो	7305	मेल्ट एंड पोर
19	लौह अथवा इस्पात के अन्य ट्यूब, पाइप और हॉलो प्रोफाइल (उदाहरण के लिए ओपन सीन अथवा वेल्ड किया हुआ, रिबेट किया हुआ अथवा समान रूप से बंद किया गया हुआ)	7306	मेल्ट एंड पोर
20	लौह अथवा इस्पात के ट्यूब अथवा पाइप फिटिंग (उदाहरण के लिए, कनेक्टर/कप्लिंग, एल्बो स्लीव्स)	7307	मेल्ट एंड पोर
21	स्टेनलैस स्टील का अनियमित रूप से वूंड क्वाइल में बार्स और रॉड, हॉट रोल्ड	7221	मेल्ट एंड पोर
22	स्टेनलैस स्टील का वायर	7223	मेल्ट एंड पोर
23	इलेक्ट्रिकल स्टील सहित 600 मि.मी. अथवा उससे अधिक की चौड़ाई वाले अन्य मिश्र धातु इस्पात का फ्लैट-रोल्ड इस्पात	7225	मेल्ट एंड पोर

24	इलेक्ट्रिकल स्टील सहित 600 मि.मी. से कम की चौड़ाई वाले अन्य मिश्रधातु इस्पात का फ्लैट-रोल्ड इस्पात	7226	मेल्ट एंड पोर
25	अन्य मिश्रधातु इस्पात का अनियमित रूप से वूंड क्वाइल में बार्स और रोड, हॉट रोल्ड	7227	मेल्ट एंड पोर
26	अन्य मिश्रधातु इस्पात का अन्य बार्स और रॉड्स; अन्य मिश्रधातु इस्पात का एंगल, शेप्स और सेक्शन्स; एलॉय अथवा गैर- मिश्रधातु इस्पात का हॉलो ड्रिल बार्स और रॉड्स	7228	मेल्ट एंड पोर
27	लौह अथवा इस्पात की शीट पाइलिंग, चाहे ड्रिल किया हुआ हो अथवा नहीं, चाहे पंच किया हुआ हो अथवा नहीं, चाहे असेम्बल किये हुए तत्वों से बना हुआ हो अथवा नहीं; लौह अथवा इस्पात का वेल्ड किया हुआ एंगल, शेप और सेक्शन्स	7301	मेल्ट एंड पोर
28	स्ट्रक्चर्स (9406 के शीर्ष का प्रीफेब्रिकेटिड भवनों को छोड़कर) और स्ट्रक्चर्स का हिस्सा	7308	मेल्ट एंड पोर
29	300 से अधिक क्षमता का लौह अथवा इस्पात का किसी सामग्री (कम्प्रेस किए हुए अथवा तरलीकृत गैस को छोड़कर) के लिए भंडार, टैंक, वैट और समान कन्टेनर चाहे उसे लाइन किया गया हो अथवा नहीं या उसे हीट से इन्सुलेट किया गया हो अथवा नहीं लेकिन यांत्रिक अथवा तापीय उपक्रम से युक्त न हो	7309	मेल्ट एंड पोर
30	अधिकतम 300 लीटर की क्षमता का लौह अथवा इस्पात का किसी सामग्री (कम्प्रेस किए हुए अथवा तरलद्रवी गैस को छोड़कर) के लिए टैंक, कास्ट, ड्रम, केन, बॉक्स और समान कन्टेनर चाहे उसे लाइन किया गया हो अथवा नहीं या उसे हीट से इन्सुलेट किया गया हो अथवा नहीं लेकिन यांत्रिक अथवा तापीय उपक्रम से युक्त न हो	7310	मेल्ट एंड पोर
31	लौह अथवा इस्पात का कम्प्रेस किया हुआ अथवा तरलद्रवी गैस के लिए कन्टेनर	7311	मेल्ट एंड पोर
32	लौह अथवा इस्पात का स्टैंडिड वायर, रोप, केबल, प्लेटिड बैंड, स्प्रिंग और उसके समान वस्तु जिसे विद्युतीय रूप से इन्सुलेट न किया गया	7312	मेल्ट एंड पोर
33	लौह अथवा इस्पात का फेनसिंग के लिए उपयोग किये जाने वाला बार्ड वायर; ट्विस्ट किया हुआ हूप अथवा सिंगल फ्लेट वायर, बार्स किया हुआ अथवा नहीं और लूज तरीके से ट्विस्ट किया हुआ डबल वायर	7313	मेल्ट एंड पोर
34	लौह अथवा इस्पात वायर का ड्रिल, नेटिंग और फेनसिंग; लौह अथवा इस्पात संबंधित एक्सपैंडेड विस्तृत धातु	7314	मेल्ट एंड पोर
35	लौह अथवा इस्पात का चैन और उसका हिस्सा	7315	मेल्ट एंड पोर
36	लौह अथवा इस्पात का टैंकर, ग्रेपनेल्स और उसका हिस्सा	7316	मेल्ट एंड पोर

37	लौह एवं इस्पात की वस्तुएं	7317	मेल्ट एंड पोर
38	लौह एवं इस्पात की वस्तुएं	7318	मेल्ट एंड पोर
39	लौह एवं इस्पात की वस्तुएं	7319	मेल्ट एंड पोर
40	लौह अथवा इस्पात का स्प्रिंग और स्प्रिंग के लिए लीव्स	7320	मेल्ट एंड पोर
41	लौह अथवा इस्पात का स्टोव्स, रेंज, ग्रेड, कूकर (सेंट्रल हिटिंग के लिए सहायक बायलरों के साथ उन वस्तुओं सहित), बारबेक्यूज, ब्रेजियर्स, गैस रिंग, प्लेट वॉर्मर्स और समान गैर-विद्युतीय घरेलू उपकरण और उसका हिस्सा	7321	मेल्ट एंड पोर
42	लौह अथवा इस्पात का सेंट्रल हिटिंग के लिए रेडियेटर जिसे विद्युतीय रूप से हीट न किया गया हो और उसका हिस्सा; लौह अथवा इस्पात का हेयर हीटर और हॉट एयर वितरक जिसे विद्युतीय रूप से हीट न किया गया हो, फेन अथवा ब्लोअर जो मोटर से चलती हो और उसके हिस्से को शामिल करते हुए	7322	मेल्ट एंड पोर
43	लौह अथवा इस्पात का टेबल और समान घरेलू वस्तुएं और उसका हिस्सा	7323	मेल्ट एंड पोर
44	लौह अथवा इस्पात का सेनेटरी वेयर और उसके पार्ट्स	7324	मेल्ट एंड पोर
45	लौह अथवा इस्पात का अन्य कास्ट सामान	7325	मेल्ट एंड पोर
46	लौह अथवा इस्पात का विद्युतीय इस्पात और अन्य वस्तुएं	7326	मेल्ट एंड पोर
47	रेलवे अथवा ट्रामवे पैसेंजर कोच जो स्व-चालित नहीं है	8605	मेल्ट एंड पोर
48	रेलवे अथवा ट्रामवे माल वेन और वेगेन जो स्व-चालित नहीं है	8606	मेल्ट एंड पोर
49	रेलवे अथवा ट्रामवे लोकोमोटिव का हिस्सा अथवा रोलिंग स्टॉक जैसे बोगिज, बिसल बोगिज, एक्सेल और फोर्ज्ड किया हुआ पहिया और उसका हिस्सा	8607	मेल्ट एंड पोर

परिशिष्ट- ख

लौह एवं इस्पात उत्पादों तथा पैकेज के लिए लागू न्यूनतम घरेलू मूल्य संवर्धन के लिए आयात किए जा सकने वाले पूंजीगत माल (गैर-संपूर्ण) की सांकेतिक सूची

क्र.सं.	संयंत्र/यूनिट पैकेज	पूंजीगत माल के लिए न्यूनतम घरेलू मूल्य संवर्धन (%)	आयात योग्य वस्तुएँ
1	कच्चे माल की हैंडलिंग प्रणाली (बाउंड्री लिमिट - वैगन टिपलर से संबंधित उपयोगकर्ता इकाइयों तक)	95%	बैरल कप्लिंग, हेवी ड्यूटी बियेरिंग, क्रेन रेल लुब्रिकेशन प्रणाली, स्लू रिंग बियेरिंग्स, टॉग्स (विशेष), बियेरिंग आइसोलेशन प्रणाली (स्प्रिंग डैम्पर)।
2	मिनरल बेनिफिशिएशन (लिमिट लौह अयस्क और कोयला) उपस्कर (बाउंड्री लिमिट: क्रेशर हॉपर में आरओएम की प्राप्ति, विखंडन, पृथक्करण, अयस्क/कोयला प्रसंस्करण से लेकर अंतिम उत्पाद तैयार करना)	75%	• वेट हाई इंटेंसिटी मैग्नेटिक सैपरेटर / हाई ग्रेडीअन्ट मैग्नेटिक सैपरेटर • हेवी मीडिया साइक्लोन • जाइरेटरी क्रशर • स्पाइलर कंसट्रेटर • ऑनलाइन ऐश एनालाइजर
3	खनन मशीनरी (बाउंड्री लिमिट: ड्रिलिंग, रेजिंग, हॉलेज और खदान की तैयारी के लिए उपस्कर)	80%	डम्पर (220 टन से अधिक पे लोड क्षमता), हाइड्रोलिक एक्सकेवेटर (10.5 क्यूबिक मीटर बकेट क्षमता से अधिक)
4	कोक ओवन बैटरी (दोनों टॉप चार्ज और स्टैम्प चार्ज) (कोयला बंकर से कोक डिस्चार्ज बकेट तक)	90%	एंकरेज सिस्टम के स्प्रिंग्स, सीओजी बूस्टर, स्टैम्पिंग ट्रेन, बॉन्डिंग प्रेस
5	कोक ड्राई क्वेन्चिंग संयंत्र	90%	कूलिंग चैम्बर के ट्विन फ्लू के लिए मिल फैन और मोटर

	(हॉट कोक प्राप्त करने वाली बेकट से लेकर कूलिंग चैम्बर निर्वहन ढलान तक)		विशेष रिफैक्ट्री
6	उपोत्पाद संयंत्र (प्राथमिक गैस कूलर से स्वच्छ कोक ओवन गैस के नेटवर्क तक)	90%	एग्जॉस्टर और मोटर, कलॉज किलन कैटलिस्ट का बर्नर टेल गैस विश्लेषक, पैलेटाइजेशन इकाई
7	सिंटर संयंत्र उपस्कर (बाउंड्री लिमिट - उत्पाद सिंटर बिन के नीचे वाइब्रो-फीडर हेतु कच्चे माल के लिए प्राप्त बिन)	75%	हाई इन्टेन्सिव मिक्सर और ग्रैनुलेटर इकाई, पैलेट कार, ड्राइव स्प्रोकेट, सिंटर मशीन के गियर बॉक्स के साथ मुख्य ड्राइव, स्लाइड रेल और कर्व्ड रेल, हॉट सिंटर ब्रेकर और गिज़ली, एनुलर डिप रेल कूलर, सिंटर प्लांट एग्जॉस्टर अनुप्रयोग के लिए एलसीआई ड्राइव सिस्टम
8	पैलेट संयंत्र उपस्कर (बाउंड्री लिमिट - फ्लक्स और बाइंडर के लिए ग्राउंड हॉपर प्राप्त करना, बेल्ट कन्वेयर उत्पाद पैलेट बेल्ट कन्वेयर को आईओएफ फीडिंग)	85%	पैलेट कार, हाई इंटेंसिव मिक्सर, बॉलिंग डिस्क, वर्टिकल रोलर मिल, ड्राइव/डिस्चार्ज एंड स्प्रोकेट असेंबली, कर्व्ड रेल, स्लाइड रेल, सिंगल डेक रोलर स्क्रीन और डबल डेक रोलर स्क्रीन, इंड्यूशियल मशीन ड्राइव असेंबली, लेवल-2 ऑटोमेशन
9	ब्लास्ट फर्नेस उपस्कर बाउंड्री लिमिट: इनपुट: • कच्चा माल - संबंधित सामग्री के बंकरों का ऊपरी भाग	70%	बेल लेस टॉप गियर बॉक्स, ऊपरी सील डिवाइस जो ऊपरी सामग्री गेट और ऊपरी सील वाल्व को कवर करती है, निचली सील डिवाइस जो निचले सामग्री गेट और

	• कोल्ड ब्लास्ट - स्नॉर्ट वाल्व का इनलेट • औद्योगिक जल - बीएफ पंप हाउस आउटपुट • गरम धातु - टारपीडो लेडल में भरी जाती है • ग्रेनुलेटिड स्लैग - ग्रेनुलेटिड स्लैग यार्ड के लिए		निचले सील वाल्व को कवर करती है, ब्लीडर वाल्व • हार्थ रिफ्रैक्टरी (कार्बन ब्लॉक) • टॉप रिकवरी टर्बाइन सिस्टम (टीआरटी) • क्यू-स्टेव्स • एसजीआई स्टेव्स • कास्ट हाउस उपस्कर (मड गन, ड्रिलिंग मशीन और मुख्य ट्रॉफ मैनिपुलेटर) • प्रोब, प्रोफाइलोमीटर और स्टॉक स्तर सूचक (रडार टाईप) • गैस सफाई संयंत्र (एजीएस प्रणाली) • स्टोव सिस्टम - सिरेमिक बर्नर और तकनीकी वाल्व • अपशिष्ट ऊष्मा पुनर्प्राप्ति प्रणाली • टर्बो ब्लोअर • बॉल मिल • पीसीआई इंजेक्शन सिस्टम • लेवल-II ऑटोमेशन
10	गैस आधारित प्रत्यक्ष रीडक्शन संयंत्र उपस्कर (बाउंड्री लिमिट: डीआरआई रिएक्टर के शीर्ष पर कच्चे माल की प्राप्ति और ईएएफ में हॉट डीआरआई का डिस्चार्ज)	50%	• रिएक्टर चार्जिंग सिस्टम • रिएक्टर • रिएक्टर डिस्चार्जिंग प्रणाली

			• ईएएफ में नुमैटिक ट्रांसफर • ब्रिकेटिंग प्रणाली के लिए डिस्चार्ज रूट • ब्रिकेटिंग फीडिंग सिस्टम • ब्रिकेटिंग प्रणाली • रिडक्शन गैस सर्किट • CO₂ निष्कासन इकाई • प्रक्रिया गैस हीटर • सुधारक प्रणाली • हीट रिकवरी प्रणाली • प्रोसेस गैस कम्प्रेसर • ब्लोअर्स • सील गैस प्रणाली • फ्लू गैस फैन/हॉट फैन • प्रक्रिया वाल्व • क्रिटिकल बेलोज • क्रिटिकल रिफ्रैक्टरी • प्राकृतिक गैस शोधन पूर्व प्रणाली • लेवल-II ऑटोमेशन
11	ऑक्सीजन संयंत्र 700 टीपीडी और उससे अधिक (सीमा: ऑक्सीजन संयंत्र सीमा पर पानी, विद्युत)	30%	• मुख्य एयर कंप्रेसर • बूस्टर एयर कंप्रेसर • एक्सपेंशन टरबाइन • रिबायलर

			• क्रायोजेनिक पंप • एएसयू के हीट विनिमय तत्व
12	इस्पात निर्माण		
12.1	हॉट मेटल डी-डी-सल्फराइजेशन स्टेशन (एचएमडीएस) यूनिट के साथ को-इंजेक्शन प्रक्रिया (ब्लास्ट फर्नेस (बीएफ) से गर्म धातु को टारपीडो लेडल या ओपन-टॉप लेडल में प्राप्त किया जाता है, "सल्फर (एस)" सामग्री को कम करने के लिए डीसल्फराइजेशन शोधन से गुजारा जाता है, और फिर बीओएफ कनवर्टर में स्थानांतरित किया जाता है)	75%	• इंजेक्शन लांस और सहायक उपकरणों के साथ स्वचालित सैंपलिंग इकाई • सहायक उपकरणों के साथ डी-स्लैगिंग मशीनें (स्लैग रेकिंग मशीन) • सहायक उपकरणों के साथ तापमान मापने और नमूना लेने के साधन
12.2	हॉट मेटल डी-डी-सल्फराइजेशन स्टेशन (एचएमडीएस) यूनिट मैकेनिकल स्टिरर (केआर) प्रक्रिया के साथ (ब्लास्ट फर्नेस (बीएफ) से गर्म धातु को टारपीडो लेडल या ओपन-टॉप लेडल में प्राप्त किया जाता है, "सल्फर (एस)" सामग्री को कम करने के लिए डीसल्फराइजेशन शोधन से गुजारा जाता है, और फिर बीओएफ कनवर्टर में स्थानांतरित किया जाता है)	70%	• सहायक उपकरणों के साथ इम्पेलर, इम्पेलर लिफ्टिंग और स्टीरिंग उपस्कर, गाइड फ्रेम • सहायक सुविधाओं के साथ डी-स्लैगिंग मशीनें (स्लैग रेकिंग मशीन) • सहायक उपकरणों के साथ तापमान मापने और नमूना लेने का साधन
12.3	बेसिक ऑक्सीजन फर्नेस/एलडी ईकाई [शोधित गर्म धातु को बीओएफ कनवर्टर में डाला जाता है, जहां इसे इस्पात में परिवर्तित करने के लिए प्रसंस्कृत किया जाता है, जिसकी फिर लैडल फर्नेस (एलएफ) में आपूर्ति की जाती है]	65%	• क्लैम्पिंग के साथ लांस बॉडी, लांस कैरिज, लांस गाइड, लांस होइस्ट और ट्रॉली, सहायक उपकरणों के साथ लांस कॉपर टिप्स। • आपातकालीन टिल्टिंग ड्राइव के लिए न्यूमेटिक मोटर्स।

			• ज्वाइंट के साथ बॉटम स्टिरिंग प्रणाली, वाल्व स्टेशन और रोटरी • सहायक उपकरणों के साथ ऑक्सीजन/आर्गन/नाइट्रोजन के लिए वाल्व स्टेशन • सहायक उपकरणों के साथ उप-लांस प्रणाली • सभी सहायक उपकरणों सहित कंटेनर प्रयोगशाला। • सहायक उपकरणों के साथ स्वचालित गैस कपलिंग (ऑटो कपलर)। • कनवर्टर रेकिंग मशीन। • कनवर्टर टैप होल बदलने की मशीन • रिफ्रेक्टरी निगरानी (लेजर) मशीन।
12.4	इलेक्ट्रिक आर्क फर्नेस यूनिट (प्राथमिक सामग्री जैसे स्कैप, डी.आर.आई., पिग आयरन और गर्म धातु को विद्युत ऊर्जा का उपयोग करके तरल इस्पात में परिवर्तित किया जाता है, जिससे कच्चे माल को पिघलाया और परिष्कृत किया जाता है)	70%	• सहायक उपकरणों के साथ इलेक्ट्रोड रेगुलेशन प्रणाली • फर्नेस ट्रांसफार्मर सहित हाई करंट प्रणाली • सहायक उपकरणों के साथ ऑक्सीजन और कार्बन इंजेक्शन प्रणाली • सहायक उपकरणों के साथ मैनुअल तापमान मापन और नमूनाकरण लांस

12.5	लैडल फर्नेस यूनिट [तरल इस्पात को वांछित ग्रेड प्राप्त करने के लिए संसाधित/शोधित किया जाता है और निरंतर कास्टिंग मशीन (सीसीएम) को आपूर्ति किए जाने से पहले बफर स्टॉक के रूप में रखा जाता है]	70%	• सहायक उपकरणों के साथ इलेक्ट्रोड विनियमन प्रणाली • सहायक उपकरणों के साथ मैनुअल तापमान मापन और नमूनाकरण लांस
12.6	आरएच/आरएच-ओबी यूनिट [आवश्यक विघटित गैस स्तर प्राप्त करने के लिए तरल इस्पात को डीगैस किया जाता है और फिर निरंतर कास्टिंग मशीन (सीसीएम) को आपूर्ति की जाती है]	65%	• सहायक उपकरणों के साथ गैस स्टिरिंग सिस्टम/लिफ्ट गैस स्टिरिंग सिस्टम वॉल्व स्टैंड • सहायक उपकरणों के साथ ऑक्सीजन लांस प्रणाली • सहायक उपकरणों के साथ हाइड्रिस मापन प्रणाली
12.7	सतत कास्टिंग इकाई (स्लैब कास्टर/ बिलेट/ ब्लूम राउंड/ कॉम्बी/ बीम ब्लैक) [तरल इस्पात को निरंतर कास्टिंग मशीन (सीसीएम) में स्लैब, बिलेट या ब्लूम में ढाला जाता है]	65%	• सहायक उपकरणों सहित लैडल स्लैग डिटेक्शन प्रणाली • कॉपर ट्यूब और प्लेट, मोल्ड ऑसीलेशन सिलेंडर। • रोटरी यूनियन। • सहायक उपकरणों सहित सतत तापमान माप प्रणाली। • सहायक उपकरणों के साथ टॉर्च कटिंग मशीन/ आपातकालीन टॉर्च कटर • सहायक उपकरणों सहित विद्युत ड्राइव सिस्टम सहित डिबुरर मशीन • मार्किंग मशीन।

			• सहायक उपकरणों सहित रोल गैप चेकर • सहायक उपकरणों के साथ इलेक्ट्रोमैग्नेटिक स्टिरर (ईएमएस)/इलेक्ट्रोमैग्नेटिक ब्रेकिंग (ईएमबीआर) प्रणाली
13	प्लेट उत्पाद मिल्स		
13.1	हॉट स्ट्रिप मिल्स/ प्लेट मिल (बाउंड्री लिमिट: सहायक उपकरणों सहित) स्लैब यार्ड से डिस्पैच बे तक)	50%	• डी-स्केलर, मिल स्टैंड, बेड प्लेट, बैकअप रोल, वर्क रोल, मिल स्पिंडल, चॉक्स, एजीसी सिलेंडर, बेंडिंग ब्लॉक और सिलेंडर, शियर, डाउन कॉइलर, एंटी-फ्रिक्शन रोल नेक बेयरिंग, ऑयल फिल्म बेयरिंग, मिल रिड्यूसर, लोड सेल, थिकनेस गॉज, प्रोफाइल गॉज, लेवलर, रोल ग्राइंडिंग मशीन, कॉइल मार्किंग मशीन, प्लेट मार्किंग मशीन, मिल स्टैंड मोटर्स और मिल स्टैंड एमवी ड्राइव सिस्टम, ऑटोमेशन सिस्टम आदि।
13.2	सीआरएम (पीएलटीसीएम) (बाउंड्री लिमिट: पिकलिंग लाइन प्रवेश से मिल निकास तक)	50%	• वेल्डिंग मशीन, टेंशन लेवलर, मिल स्टैंड, बैकअप रोल, एंटीफ्रिक्शन बीयरिंग, ऑयल फिल्म बीयरिंग, रोल चॉक्स, रोल फोर्स सिलेंडर, रोल बेंडिंग और रोल शिफ्टिंग सिलेंडर, मिल स्पिंडल, लोड सेल, पोजिशन ट्रांसड्यूसर, इलेक्ट्रोस्टैटिक ऑइलर, साइड ट्रिमर, स्टीयरिंग सिस्टम, सरफेस इंस्पेक्शन सिस्टम, थिकनेस गेज, लेजर

			स्पीड गेज, टेंसियोमीटर, फ्लैटनेस गॉज, टेंशन रील, मिल रिड्यूसर, मिल स्टैंड मोटर्स और मिल स्टैंड एमवी ड्राइव सिस्टम, ऑटोमेशन सिस्टम आदि।
13.3	सीआरएम (एचडीजीएल) (बाउंड्री लिमिट: टेम्पर मिल और टेंशन लेवलर सहित एचडीजीएल में प्रवेश से निकास तक)	60%	वेल्डिंग मशीन, रेडिएंट ट्यूब फर्नेस, जेट कूलिंग सिस्टम, इंडक्शन हीटिंग के साथ कोटिंग पॉट, पॉट रोल, एयर नाइफ वाइपिंग सिस्टम, टेंशन लेवलर, विड्थ गॉज, थिकनेस गेज, कोटिंग मोटाई गॉज, लोड सेल, रोल फोर्स सिलेंडर, मिल स्टैंड मोटर्स और मिल स्टैंड ड्राइव सिस्टम, ऑटोमेशन सिस्टम, आदि।
13.4	सीआरएम (एसपीएम) (बाउंड्री लिमिट: एसपीएम में प्रवेश से निकास तक)	50%	मिल स्टैंड, बैकअप रोल, एंटीफ्रिक्शन बीयरिंग, ऑयल फिल्म बीयरिंग, रोल चॉक्स, रोल फोर्स सिलेंडर, मिल स्पिंडल, इलेक्ट्रोस्टेटिक ऑइलर, काँइल मार्किंग सिस्टम, लोड सेल, थिकनेस गॉज, मिल स्टैंड मोटर्स और मिल स्टैंड एमवी ड्राइव सिस्टम, ऑटोमेशन सिस्टम, आदि।
13.5	सीआरएम (बेल एनीलिंग फर्नेस) (बाउंड्री लिमिट: फर्नेस बेस से पोस्ट शीतलन उपस्कर तक)	55%	फर्नेस, स्वचालन प्रणाली, आदि।

13.6	सीआरएम (कलर कोटिंग लाइन) (बाउंड्री लिमिट: सीसीएल में प्रवेश से निकास तक)	80%	कोटर, कोटिंग थिक्नेस गेज, डिजिटल प्रिंटर, टेंशन लेवलर, स्वचालन आदि।
14	लॉन्ग उत्पाद मिल्स		
14.1	बारमिल/डब्लूआरएम/एमएम/एलएसएम (बाउंड्री लिमिट: फर्नेस प्रवेश से लेकर प्रेषण तक)	75%	फास्ट फिनिशिंग ब्लॉक, रोल टर्निंग लेथ, प्रोफाइल गेज, स्वचालन प्रणाली आदि।
14.2	रेल मिल/भारी संरचनात्मक मिल (बाउंड्री सीमा: सामग्री हैंडलिंग को छोड़कर फर्नेस प्रवेश से लेकर रेल वेल्डिंग संयंत्र के निकास तक)	45%	मिल स्टैंड, मिल मोटर एवं ड्राइव सिस्टम, हीट ट्रीटमेंट सुविधा, स्ट्रेटनिंग मशीन, एनडीटी सुविधाएं, वेल्डिंग मशीन, प्रोफाइल गेज, हॉट साँ, कोल्ड साँ, हॉट मार्किंग मशीन, रोल टर्निंग लेथ, साँ ग्राइंडिंग मशीन, स्वचालन प्रणाली सिस्टम आदि।
15	व्हील संयंत्र (तैयार पहिये के लिए राउंड/इनगोट की प्राप्ति)	30%	सर्कुलर साँ, फोर्जिंग प्रेस, व्हील रोलिंग मिल, व्हील डिशिंग प्रेस, व्हील स्टैम्पिंग मशीन, रिम स्पैडिंग मशीन, मोबाइल चार्जर, (हैंडलिंग रोबोट), मशीनिंग सुविधाएं, परीक्षण सुविधाएं, स्वचालन प्रणाली आदि।
16	रिफ़ैक्टरी ब्रिक (कच्चे माल की प्राप्ति से लेकर तैयार ब्रिक तक)	50%	हाइड्रोलिक प्रेस
17	इलेक्ट्रिकल (विद्युत गुणवत्ता प्रणाली)	30%	एमवी स्टेटकॉम (स्टेटिक सिंक्रोनस कम्पेन्सेटर) प्रणाली

परिशिष्ट-ग**लौह एवं इस्पात क्षेत्र में स्वदेशी प्रौद्योगिकियों को बढ़ावा देना****1) उद्देश्य:**

इस्पात विनिर्माण के सभी चरणों में स्वदेशी प्रौद्योगिकियों को अपनाने, विकास और विस्तार को प्रोत्साहित करके भारतीय लौह एवं इस्पात क्षेत्र में आत्मनिर्भरता को बढ़ावा देना।

2) विषय क्षेत्र:

यह नीति इस्पात बनाने या इस्पात विनिर्माण संयंत्र स्थापित करने वाले केन्द्रीय सार्वजनिक क्षेत्र के उद्यमों पर लागू होती है।

3) नीति निदेश:

3.1 ऐसे मामले जहां पहले की इंजीनियरिंग और आपूर्ति के लिए प्रौद्योगिकी और प्रमाण उपलब्ध हैं, लेकिन वर्तमान क्षमता आवश्यकता से मेल नहीं खाते हैं, ऐसे मामलों में स्वदेशी प्रौद्योगिकी प्रदाताओं के लिए निम्नलिखित शर्तें लागू होंगी:

3.1.1 उत्पादन क्षमता प्रस्तावित संयंत्र की क्षमता का 30% होगी

3.1.2 विक्रेताओं के साथ स्पष्ट गठजोड़ की उपलब्धता

3.1.3 प्रस्तावित संयंत्र की क्षमता के कम से कम 75% के लिए परियोजनाओं की विस्तृत इंजीनियरिंग का अनुभव

3.2 ऐसे मामले जहां प्रौद्योगिकी उपलब्ध है, लेकिन पहले आपूर्ति के लिए कोई संदर्भ उपलब्ध नहीं है, ऐसे मामलों में स्वदेशी प्रौद्योगिकी प्रदाताओं के लिए निम्नलिखित शर्तें लागू होंगी:

3.2.1 स्वदेशी प्रौद्योगिकी आपूर्तिकर्ता ने प्रस्तावित परियोजना की कम से कम 75% विशेषताओं से मेल खाते हुए परियोजनाओं की विस्तृत इंजीनियरिंग की है

3.2.2 स्वदेशी प्रौद्योगिकी आपूर्तिकर्ता ने प्रस्तावित परियोजना की महत्वपूर्ण विशेषताओं से 100% मेल खाते हुए विस्तृत इंजीनियरिंग की है

3.2.3 विक्रेताओं के साथ स्पष्ट गठजोड़ की उपलब्धता

3.2.4 प्रौद्योगिकी उपलब्धता के प्रमाणिक साक्ष्य (अन्य पर्याप्त साक्ष्य पर आईपीआर)

4) कार्यान्वयन निरीक्षण:

इस्पात मंत्रालय द्वारा गठित स्थायी समिति कार्यान्वयन की निगरानी करेगी, विवादों का समाधान करेगी तथा पात्रता एवं प्रोत्साहन मानदंडों को समय-समय पर अद्यतन करेगी।

प्रपत्र- 1

लौह एवं इस्पात उत्पादों/ पूंजीगत माल में घरेलू मूल्यवर्धन के संबंध में 100/- रुपए मूल्य के स्टाम्प पेपर पर दिए जाने के लिए स्व-प्रमाणन शपथ-पत्र हेतु प्रारूप

तारीख:

मैं _____ सुपुत्र, सुपुत्री, पत्नी, _____, निवासी _____
 _____ एतद्वारा निष्ठापूर्वक निम्नानुसार वचन देता हूँ और घोषण करता हूँ:

कि मैं अधिसूचना सं. : _____ के माध्यम से जारी की गई भारत सरकार की नीति के नियम और शर्तों का पालन करने के लिए सहमत हूँ।

कि यहां नीचे दी गई सूचना मेरे सर्वोत्तम ज्ञान और विश्वास के अनुसार सही है और मैं घरेलू मूल्यवर्धन का आकलन करने के प्रयोजन से प्रापण एजेंसी(यों) के समक्ष संगत रिकार्ड प्रस्तुत करने का वचन देता हूँ।

कि सभी इनपुट्स के लिए घरेलू मूल्यवर्धन जिसमें उक्त लौह एवं इस्पात उत्पाद शामिल हैं का सत्यापन मेरे द्वारा कर लिया गया है और मैं उसमें किये गये दावों की सत्यता के लिए जिम्मेदार हूँ।

कि इसमें उल्लिखित उत्पाद घरेलू मूल्यवर्धन सही नहीं पाये जाने और मूल्यवर्धन के लिए निर्धारित मानदंडों को पूरा न किये जाने की स्थिति में, घरेलू मूल्यवर्धन का आकलन करने के प्रयोजन से प्रापण एजेंसी(यों) के आकलन के आधार पर मैं 36 महीनों की अवधि के लिए किसी सरकारी निविदा के लिए अयोग्य ठहराया जाऊंगा। इसके अतिरिक्त मैं इस प्रकार के आकलन की सभी लागतों का वहन करूंगा।

कि मैंने अधिसूचना संख्या _____ जिसमें सरकारी अधिप्राप्ति में घरेलू स्तर पर निर्मित लौह एवं इस्पात उत्पादों को वरीयता दी गई है, में संदर्भित सभी शर्तों का पालन किया है और यह कि प्रापण एजेंसी को एतद्वारा अधिकार दिया जाता है कि वह मेरे ईएमडी को जब्त करे। यह भी वचन देता हूँ कि मैं आकलन की लागत का भुगतान करूंगा और निविदा दस्तावेज में यथा उल्लिखित सभी शास्ति राशि का भुगतान करूंगा।

मैं 8 वर्षों की अवधि के लिए कम्पनी के रिकॉर्ड में निम्नलिखित सूचना रखने के लिए सहमत हूँ और किसी सांविधिक प्राधिकारी को सत्यापन के लिए इसे उपलब्ध कराऊंगा।

- i. बोलीदाता का नाम और ब्यौरा (पंजीकृत कार्यालय, विनिर्माण इकाई का स्थान, कानूनी प्रतिष्ठान की प्रकृति)
- ii. वह तारीख जब यह प्रमाण पत्र जारी किया गया है।
- iii. लौह एवं इस्पात उत्पाद जिसके लिए यह प्रमाण पत्र प्रस्तुत किया गया है।
- iv. प्रापण एजेंसी जिसे यह प्रमाण पत्र प्रस्तुत किया गया है।
- v. दावा की गई घरेलू मूल्यवर्धन की प्रतिशतता और क्या यह निर्धारित घरेलू मूल्यवर्धन के थ्रेशोल्ड वेल्यू को पूरा करता है।
- vi. विनिर्माता(ओं) इकाई का नाम और संपर्क विवरण
- vii. लौह एवं इस्पात उत्पादों की निवल बिक्री कीमत
- viii. संयंत्र तक भाड़ा, बीमा और रखरखाव
- ix. लौह एवं इस्पात उत्पादों का निर्माण करने के लिए उपयोग किए जाने वाले इनपुट इस्पात (आयातित) की सूची और कुल लागत मूल्य।
- x. घरेलू स्तर पर इनपुट इस्पात की सूची और कुल लागत
- xi. यदि इनपुट इन हाऊस नहीं हो, तो कृपया आपूर्तिकर्ताओं से प्राप्त घरेलू मूल्यवर्धन प्रमाणपत्र संलग्न करें।
- xii. आयातित इनपुट इस्पात के लिए, सीआईएफ मूल्य के ब्रेक-अप के साथ भारतीय पोर्ट पर लैंडिंग कोस्ट, शुल्क एवं कर, पोर्ट हैंडलिंग संबंधी शुल्क और अंतर्देशीय भाड़े की लागत का ब्यौरा।

(इकाई/फर्म का नाम) के लिए तथा की ओर से

अधिकृत हस्ताक्षरकर्ता (निदेशक बोर्ड द्वारा विधिवत अधिकृत किये जाने के लिए)

<नाम, पदनाम और संपर्क सं. की प्रविष्टि करें>

[फा. सं. 8(2)/2023-आई डी-1]

अभिजीत नरेंद्र, संयुक्त सचिव

MINISTRY OF STEEL

NOTIFICATION

New Delhi, the 26th May, 2025

G.S.R. 341(E).— In supersession of earlier Domestically Manufactured Iron & Steel Products Policy, the revised Domestically Manufactured Iron & Steel Products Policy-2025 for providing preference to Domestically Manufactured Iron & Steel Products in Government procurement is hereby published for general information.

POLICY FOR PROVIDING PREFERENCE TO DOMESTICALLY MANUFACTURED IRON & STEEL PRODUCTS IN GOVERNMENT PROCUREMENT- REVISED, 2025

1. Background

- 1.1. This policy provides preference for Domestically Manufactured Iron and Steel Products (DMI&SP) in Government procurement.
- 1.2. The policy applies to procurement of iron & steel products notified in Appendix A. In Appendix B, the minimum domestic content and an exempted list of capital goods for manufacturing iron & steel products which can be imported have been listed. Appendix C contains the policy for promoting the procurement of technology from the indigenous technology suppliers.

2. Definitions

- 2.1. **Bidder** may be a domestic/ foreign manufacturer of iron & steel or their selling agents/ authorized distributors/authorized dealers/ authorized supply houses or any other company engaged in the bidding of projects funded by Government agencies.
- 2.2. **Domestically Manufactured Iron & Steel Products** are those iron and steel products that are manufactured by entities that are registered and established in India, including in Special Economic Zones (SEZs).
- 2.3. **Domestic Manufacturer** is a manufacturer of iron & steel products conforming to guidelines in section 7 and the definition of ‘manufacturer’ as per the Central Excise Act.
- 2.4. **Domestic value addition** means the amount of value added in India which shall be the total value of the item to be 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 of the item to be procured, in percent. The ‘domestic value addition’ definition shall be in line with the DPIIT guidelines and shall be suitably amended in case of any changes by DPIIT in the future. For the purpose of this policy document, domestic value addition and local content have been used interchangeably.

% Domestic value addition =

{Total value of the item to be procured (excluding net domestic indirect taxes) – The value of imported content in the item (including all customs duties)}

X 100%

{Total value of the item to be procured}

- 2.5. **Finished Steel** shall mean flat and long products, which can be subsequently

processed into manufactured items.

- 2.6. **Government** for the purpose of the Policy means Government of India.
- 2.7. **Government agencies** include Government PSUs, Societies, Trusts, and Statutory bodies set up by the Government of India.
- 2.8. **Indigenous Technology:** A technology shall be deemed to be Indigenous technology if, at least 51 % of the entity's equity is held by Indian residents and the IPR is owned or co-owned by an Indian entity or licensed exclusively to them and the core engineering R&D, and project execution capabilities reside in India.
- 2.9. **L1** means the lowest tender or the lowest bid or the lowest quotation received in a tender, bidding process, or other procurement solicitation as adjudged in the evaluation process as per the tender or other procurement solicitation.
- 2.10. **MoS** shall mean Ministry of Steel, Government of India.
- 2.11. **Margin of purchase preference** means the maximum extent to which the price quoted by a domestic supplier may be above L1 for the purpose of purchase preference. In the case of DMI&SP policy, the margin of purchase preference shall be 20 % for items in Appendix B.
- 2.12. **Melt & Pour** is defined as the steel that has been produced in a steel-making furnace and poured into its first solid shape. The location where this process takes place is called the country of melt and pour (COM). The COM is the original location where crude steel is first produced in a liquid state and poured into its first solid shape. The first solid shape can be a semi-finished product, like a slab, billet, ingot, or a finished steel mill product.
- 2.13. **Net Selling Price** shall be the invoiced price excluding net domestic taxes and duties.
- 2.14. **Semi-Finished Steel** shall mean Ingots, billets, blooms, and slabs, which can be subsequently processed into finished steel.

3. Exclusions

- 3.1. Waivers may be granted by the Ministry of Steel to all such Government procurements subject to the below conditions:
 - 3.1.1. Where specific grades of steel are not manufactured in the country, or
 - 3.1.2. Where the quantities as per the demand of the project cannot be met through domestic sources.
- 3.2. Exemption requests shall be submitted to the Standing Committee along with sufficient proof of unavailability of iron & steel products domestically.

4. Standing Committee

- 4.1. A Standing Committee chaired by the Secretary (Steel), shall oversee the implementation of the policy.
- 4.2. The Committee shall comprise of experts drawn from Industry/Industry

Association/Government Institution or Body/Ministry of Steel. The said Committee in MoS shall have the mandate for the following:

- 4.2.1. Monitor the implementation of the policy.
- 4.2.2. Review and notify the list of Iron & Steel products, the domestic content requirement criteria and policy directives as mentioned in Appendix A, Appendix B and Appendix C.
- 4.2.3. Issue necessary clarifications for implementation of the policy including grant of exclusions to procuring agencies as per Para 3.
- 4.2.4. Constitute a grievance redressal committee for preliminary examination of complaints related to implementation of this policy.
- 4.2.5. Issue directions for suitable action to Ministries/Departments concerned in case of non-compliance with this policy by the procuring agency and advise.
- 4.3. Wherever a procuring entity concludes that an unreasonably high price has been quoted by the sole bidder/manufacturer, the matter may be referred to the Committee. In such cases, the procuring entity would be required to substantiate its case with complete and thorough documentation.
- 4.4. Specifying foreign certifications/unreasonable technical specifications in bid document is a restrictive and discriminatory practice against local suppliers. If foreign certification is required to be stipulated because of non-availability of Indian Standards and/or for any other reason, the same shall be done only after written approval of the Committee.

5. Applicability

- 5.1. The policy applies to every Ministry or Department of Government and all agencies/entities under their administrative control and to projects funded by these agencies for the purchase of iron & steel products for government projects. All Central Sector Schemes (CS)/Centrally Sponsored Schemes (CSS) for which procurement is made by States and Local Bodies, come within the purview of this Policy if that project/ scheme is fully/partly funded by the Government of India.
- 5.2. The policy applies to public sector steel manufacturers and agencies/entities under their administrative control for purchase of capital goods (Appendix-B) for manufacturing iron & steel products.
- 5.3. Appendix-B contains the exemption list of capital goods used in manufacturing iron & steel products which can be imported, and the minimum domestic content requirement for respective packages. The domestic value addition for Capital Goods, as indicated, is subject to change; for example, if some capital goods components can be manufactured in the country, the domestic value addition percentage may go up.
- 5.4. A purchase preference of 20% is applicable for capital goods used in steel manufacturing. For example, if the lowest bidder (L1) for an importable capital good is a foreign company with a quoted price of INR 100 crores for the product package, under the policy, procurement preference of 20% will be applicable to a domestic

supplier of the same capital good.

- 5.5. Appendix-C contains directives and methodology for steelmaking CPSEs to procure from indigenous technology suppliers.
- 5.6. The policy shall apply to projects and non-projects where the total procurement value of iron and steel products (Appendix-A) in a contract is greater than Rs. 5 lakhs, on itemised basis.
- 5.7. No Global Tender Enquiry (GTE) shall be invited for tenders related to the procurement of iron and steel products (Appendix-A of the DMI&SP Policy). No Global Tender Enquiry (GTE) shall be invited for tenders related to the procurement of Capital Goods for manufacturing iron & steel products (Appendix-B of the DMI&SP Policy) having estimated value up to Rs. 200 Crore except with the approval of competent authority as designated by Department of Expenditure.
- 5.8. The policy applies to the purchase of iron & steel products by private agencies for fulfilling an EPC contract and/or any other requirement of a Ministry or Department of Government or their PSUs.

6. Tender procedure for procurement

- 6.1. Procuring agencies shall follow standard procurement procedures, in accordance with instructions of the Ministry of Finance and CVC while adhering to DMI&SP policy.
- 6.2. The tender document, for procurement of both Goods as well as for EPC contracts, should explicitly outline the qualification criteria for adherence to the requirement as mentioned in Appendix A and Appendix B.
- 6.3. Domestic manufacturers of products under Appendix-A and Appendix-B shall self-certify the local content as per form-1 placed in the policy, at the time of bidding.
- 6.4. Bidders who are selling agents/authorized distributors/authorized dealers/authorized supply houses of the domestic manufacturers of iron & steel products, covered by Appendix-A, are eligible to bid with self- certification on behalf of the domestic manufacturers under the policy, subject to the bidder furnishing an authorisation certificate issued by the domestic manufacturer at the time of delivery.
- 6.5. For products covered under Appendix B of the DMI&SP policy, the bidder shall furnish certification issued by 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 suppliers other than companies) declaring that the capital goods to be used in iron & steel industry are domestically manufactured in terms of the domestic value addition prescribed.
- 6.6. If 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 the procuring entities for appropriate reciprocal action.
- 6.7. Entities of countries that have been identified by the Ministry of Steel as not allowing

Indian companies to participate in their Government procurement for any item related to the Ministry of Steel shall not be allowed to participate in Government procurement in India for all items related to Ministry of Steel, except for the list of items published by Ministry of Steel permitting their participation.

- 6.8. The stipulation above shall be part of all tenders including those on GeM portal invited by the Central Government procuring entities.
- 6.9. In case restrictive or discriminatory conditions against domestic suppliers are included in bid documents, an inquiry shall be conducted by the Administrative Department undertaking the procurement (including procurement by any entity under its administrative control) to fix responsibility for the same. Thereafter, appropriate action, administrative or otherwise, shall be taken against erring officials of procurement entities under relevant provisions. Intimation on all such action shall be sent to the Standing Committee under the DMI&SP policy.
- 6.10. A supplier 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.
- 6.11. In case, the matter is referred to the Ministry of Steel, the grievance redressal committee set up under the MoS shall dispose of the complaint within 4 weeks of its reference and receipt of all documents from the bidder after taking into consideration, the view of the Government Agency. The bidder shall be required to furnish the necessary documentation in support of domestic value addition claimed in iron & steel products to the grievance redressal committee under MoS within 2 weeks of the reference of the matter.
- 6.12. Procuring agency shall define the penalties, in case of a wrong declaration by the bidder of the prescribed domestic value addition, in the tender document. The penalties may include forfeiting of the EMD, other financial penalties, and blacklisting of such manufacturer/service provider etc., in terms of extant rules.

7. Implementation monitoring by the Ministry of Steel

- 7.1. The policy provisions shall be applicable for 5 years from the date of publication and may further be extended at the discretion of the Ministry of Steel.
- 7.2. MoS shall be the nodal ministry to monitor the implementation of the policy.
- 7.3. Agencies covered under DMI&SP policy shall send declaration on a quarterly basis indicating the extent of compliance to the policy and reasons for non-compliance thereof, during the preceding financial year.

Appendix-A**List of iron and steel products which can only be procured from domestic sources**

Sl. No.	Iron & Steel Products	HS code	Condition
1	Flat-rolled products of iron or non-alloy steel, of a width of 600 mm or more, hot rolled, not clad, plated or coated	7208	Melt & Pour
2	Flat-rolled products of iron or non-alloy steel, of a width of 600 mm or more, cold rolled (cold-reduced), not clad, plated or coated	7209	Melt & Pour
3	Flat-rolled products of iron or non-alloy steel, of a width of 600 mm or more, clad, plated or coated	7210	Melt & Pour
4	Flat-rolled products of iron or non-alloy steel, of a width of less than 600 mm, not clad, plated or coated	7211	Melt & Pour
5	Flat-rolled products of iron or non-alloy steel, of a width of less than 600 mm, clad, plated or coated	7212	Melt & Pour
6	Bars and rods, hot-rolled, in irregularly wound coils, of iron or non-alloy steel	7213	Melt & Pour
7	Other bars and rods of iron or non-alloy steel, not further worked than forged, hot rolled, hot-drawn or hot-extruded, but including those twisted after rolling	7214	Melt & Pour
8	Other bars and rods of iron or non-alloy steel	7215	Melt & Pour
9	Angles, shapes and sections of iron or non-alloy steel	7216	Melt & Pour
10	Wire of iron or non-alloy steel	7217	Melt & Pour
11	Flat-rolled products of stainless steel, of a width of 600 mm or more	7219	Melt & Pour
12	Flat-rolled products of stainless steel, of a width of less than 600 mm	7220	Melt & Pour
13	Other bars and rods of stainless steel; angles, shapes and sections of stainless steel	7222	Melt & Pour
14	Wire of other alloy steel	7229	Melt & Pour
15	Rails, railway or tramway track construction material of iron or steel	7302	Melt & Pour
16	Tubes, pipes and hollow profiles, of cast iron	7303	Melt & Pour
17	Tubes, pipes and hollow profiles, seamless, of iron (other than cast iron) or steel	7304	Melt & Pour
18	Other tubes and pipes (for example, welded, riveted or similarly closed), having circular cross-sections, the external diameter of which exceeds 406.4 mm, of iron or steel	7305	Melt & Pour
19	Other tubes, pipes and hollow profiles (for example, open seam or welded, riveted or similarly closed), of iron or steel	7306	Melt & Pour
20	Tube or pipe fittings (for example, connectors/couplings, elbow sleeves), of iron or steel	7307	Melt & Pour
21	Bars and rods, hot-rolled, in irregularly wound coils, of stainless steel	7221	Melt & Pour
22	Wire of stainless steel	7223	Melt & Pour
23	Flat-rolled products of other alloy steel, of a width of 600 mm or more, including electrical steel	7225	Melt & Pour
24	Flat-rolled products of other alloy steel, of a width of less than 600 mm, including electrical steel	7226	Melt & Pour
25	Bars and rods, hot-rolled, in irregularly wound coils, of other alloy steel	7227	Melt & Pour

26	Other bars and rods of other alloy steel; angles, shapes and sections, of other alloy steel; hollow drill bars and rods, of alloy or non alloy steel	7228	Melt & Pour
27	Sheet piling of iron or steel, whether or not drilled, punched or made from assembled elements; welded angles, shapes and sections, of iron or steel	7301	Melt & Pour
28	Structures (excluding prefabricated buildings of heading 9406) and parts of structures	7308	Melt & Pour
29	Reservoirs, tanks, vats and similar containers for any material (other than compressed or liquefied gas), of iron or steel, of a capacity exceeding 300 whether or not lined or heat insulated, but not fitted with mechanical or Thermal equipment	7309	Melt & Pour
30	Tanks, casks, drums, cans, boxes and similar containers, for any material (other than compressed or liquefied gas), of iron or steel, of a capacity not exceeding 300L, whether or not lined or heat-insulated, but not fitted with mechanical or thermal equipment	7310	Melt & Pour
31	Containers for compressed or liquefied gas, of iron or steel	7311	Melt & Pour
32	Stranded wire, ropes, cables, plaited bands, slings and the like, of iron or steel, not electrically insulated	7312	Melt & Pour
33	Barbed wire of iron or steel; twisted hoop or single flat wire, barbed or not, and loosely twisted double wire, of a kind used for fencing, of iron or steel	7313	Melt & Pour
34	Grill, netting and fencing, of iron or steel wire; expanded metal of iron or steel	7314	Melt & Pour
35	Chain and parts thereof, of iron or steel	7315	Melt & Pour
36	Anchors, grapnels and parts thereof, of iron or steel	7316	Melt & Pour
37	Articles of iron and steel	7317	Melt & Pour
38	Articles of iron and steel	7318	Melt & Pour
39	Articles of iron and steel	7319	Melt & Pour
40	Springs and leaves for springs, of iron or steel	7320	Melt & Pour
41	Stoves, ranges, grates, cookers (including those with subsidiary boilers for central heating), barbecues, braziers, gas-rings, plate warmers and similar non-electric domestic appliances, and parts thereof, of iron or steel	7321	Melt & Pour
42	Radiators for central heating, not electrically heated, and parts thereof, of iron or steel; air heaters and hot air distributors, not electrically heated, incorporating a motor-driven fan or blower, and parts thereof, of iron or steel	7322	Melt & Pour
43	Tables and similar house hold articles and parts thereof, of iron or steel	7323	Melt & Pour
44	Sanitary ware and parts thereof, of iron or steel	7324	Melt & Pour
45	Other cast articles of iron or steel	7325	Melt & Pour
46	Electrical steel and other articles of iron or steel	7326	Melt & Pour
47	Railway or tramway passenger coaches, not self-propelled	8605	Melt & Pour
48	Railway or tramway goods vans and wagons, not self-propelled	8606	Melt & Pour
49	Parts of railway or tramway locomotives or rolling-stock; such as bogies, bissel-bogies, axles and forged wheels, and parts thereof	8607	Melt & Pour

Appendix-B

Indicative list of Capital Goods (non-exhaustive) which can be imported for Manufacturing Iron & Steel products, and minimum Domestic content applicable for the package

S. no.	Plant /Unit package	Minimum domestic content of Capital Goods (%)	Importable Items
1	Raw Material Handling System (Boundary Limit – from Wagon Tippler to respective user units)	95%	Barrel Couplings, Heavy Duty Bearings, Crane Rail Lubrication System, Slew Ring Bearings, Tongs (Special), Vibration Isolation System (Spring Damper).
2	Mineral beneficiation (iron ore and coal) equipment (Boundary Limit: from Receiving of ROM at the crusher hopper, comminution, segregation, ore/coal processing up to final product preparation)	75%	• Wet High Intensity Magnetic Separator / High Gradient Magnetic Separator • Heavy Media Cyclone • Gyratory Crusher • Spiral Concentrator • Online Ash Analyser
3	Mining Machinery (Boundary Limit: Equipment for drilling, raising, haulage, and mine preparation)	80%	Dumper (above 220 tons pay load capacity), Hydraulic Excavators (above 10.5 Cubic meter bucket capacity)
4	Coke Oven Battery (Both top charged & stamp charged) (From Coal bunker to coke discharge bucket)	90%	Springs of the anchorage systems, COG booster, stamping train, bonding press
5	Coke Dry Quenching Plant (From Hot coke receiving bucket to discharge chute of cooling chamber)	90%	Mill fan & Motor Special Refractory for Twin Flue of Cooling Chamber.
6	By-Product Plant (From Primary Gas cooler to clean coke oven gas up to the network)	90%	Exhauster & Motor, burner of the clause kiln Catalyst, Tail gas analyzer, Palletization unit.
7	Sinter Plant Equipment (Boundary Limit – Receiving Bin for Raw Material to Vibro-Feeder below Product Sinter Bin)	75%	High Intensive Mixer & Granulator Unit, Pallet cars, Drive Sprocket, Main Drive with Gear Box of sinter machine, slide rail & curved rail, Hot Sinter breaker and Grizzly, Annular Dip Rail Cooler, LCI Drive system for Sinter Plant Exhauster application
8	Pellet Plant Equipment (Boundary Limit – Receiving Ground Hopper for flux & Binder, Belt Conveyor feeding IOF to product pellet belt conveyor)	85%	Pallet car, High Intensive Mixer, Balling Discs, Vertical roller mill, Drive/discharge end Sprocket assembly, Curved rail, Slide rails, Single deck roller screen and Double deck roller screen, Induration Machine Drive assembly, Level-2 automation

9	Blast Furnace Equipment Boundary Limit: Input: • Raw material- Top of bunkers of respective material • Cold Blast- Inlet of the snort valve • Industrial water- BF pump house Output • Hot Metal- Filled in the torpedo ladle • Granulated Slag- to the granulated slag yard	70%	• Bell less top gear box, upper seal device covering upper material gate and upper seal valve, lower seal device covering lower material gate and lower seal valve, Bleeder valve • Hearth Refractory (carbon blocks) • Top Recovery Turbine system (TRT) • Cu-staves • SGI Staves • Cast house equipment (Mud gun, Drilling machine and main trough Manipulator) • Probes, Profilometer & Stock level indicator (radar type) • Gas cleaning plant (AGS system) • Stove system – ceramic burner & technological valve • Waste Heat Recovery system • Turbo blowers • Ball Mill • PCI Injection System • Level-II automation
10	Gas based Direct Reduction Plant Equipment (Boundary Limit: Receipt of raw material at the top of the DRI reactor & discharge of hot DRI to EAF)	50%	• Reactor charging system • Reactor • Reactor discharging system • Pneumatic transfer to EAF • Discharge route to briquetting system • Briquetting feeding system • Briquetting system • Reduction gas circuit • CO₂ removal unit • Process gas heater • Reformer system • Heat Recovery System • Process Gas Compressors • Blowers • Seal Gas System • Flue Gas Fan/ Hot Fan • Process valves • Critical bellows • Critical refractories

			• Natural Gas pre-treatment system • Level-II automation
11	Oxygen Plant 700 tpd & Above (Boundary limit: Water, Power at oxygen plant boundary)	30%	• Main Air Compressor • Booster Air Compressor • Expansion Turbine • Reboiler • Cryogenic Pumps • Heat exchange elements of ASU
12	Steel Making		
12.1	Hot Metal De- De-Sulphurization Station (HMDS) Unit with Co-Injection Process (Hot metal from the blast furnace (BF) is received in a torpedo ladle or open-top ladle, undergoes desulfurization treatment to reduce “Sulphur (S)” content, and is then transferred to the BOF converter)	75%	• Injection Lance and automatic sampling Unit with auxiliaries • De-slagging Machines (slag raking machine) with auxiliaries • Temp. measuring and sampling device with auxiliaries
12.2	Hot Metal De- De-Sulphurization Station (HMDS) Unit with Mechanical Stirrer (KR) Process (Hot metal from the blast furnace (BF) is received in a torpedo ladle or open-top ladle, undergoes desulfurization treatment to reduce “Sulphur (S)” content, and is then transferred to the BOF converter)	70%	• Impeller, Impeller lifting & stirring equipment, Guide Frame with auxiliaries • De-slagging Machines (slag raking machine) with auxiliary facilities • Temp. measuring and sampling device with auxiliaries
12.3	Basic Oxygen Furnace / LD Unit [Treated hot metal is poured into the BOF converter, where it undergoes processing to convert it into steel, which is then supplied to the ladle furnace (LF)]	65 %	• Lance body with clamping, Lance carriage, Lance guide, Lance hoist & trolley, Lance copper tips with auxiliaries. • Pneumatic motors for emergency tilting drive. • Bottom stirring system, valve station & rotary joint along with auxiliaries • Valve stations for oxygen/ argon/ nitrogen with auxiliaries • Sub-lance system with auxiliaries • Container lab with all auxiliaries. • Automatic gas coupling (auto coupler) with auxiliaries. • Converter wrecking machine. • Converter tap hole changing machine • Refractory monitoring (laser) machine.

12.4	Electric Arc Furnace Unit (Primary materials such as scrap, DRI, pig iron, and hot metal in combination are converted into liquid steel using electrical energy to melt and refine the raw materials)	70%	• Electrode regulation system with auxiliaries • High current system including furnace transformer • Oxygen & Carbon Injection System with auxiliaries • Manual Temp Measuring & sampling Lance with auxiliaries
12.5	Ladle Furnace Unit [Liquid steel is processed/ treated to achieve the desired grade and held as buffer stock before being supplied to the continuous casting machine (CCM)]	70%	• Electrode regulation system with auxiliaries • Manual Temp Measuring & sampling Lance with auxiliaries
12.6	RH/ RH-OB Unit [The liquid steel is degassed to achieve the required dissolved gas levels and then supplied to the continuous casting machine (CCM)]	65%	• Gas Stirring System/ Lift Gas Stirring System Valve Stand with auxiliaries • Oxygen Lance System with auxiliaries • Hydri Measurement System with auxiliaries
12.7	Continuous Casting Unit (Slab Caster/ Billet/ Bloom Round/ Combi/ Beam Blank) [The liquid steel is cast into slabs, billets, or blooms in the continuous casting machine (CCM)]	65%	• Ladle slag detection system complete with auxiliaries • Copper tube and Plate, Mould oscillation Cylinder. • Rotary Union. • Continuous temperature measuring system with auxiliaries. • Torch cutting machine/ Emergency torch cutter along with auxiliaries • Deburrer machine along with electrical drive system with auxiliaries • Marking machine . • Roll gap checker complete with auxiliaries • Electromagnetic Stirrer (EMS)/ Electromagnetic Braking (EMBr) system along with auxiliaries •
13	Flat Product Mills		
13.1	Hot Strip Mills/ Plate Mill (Boundary Limit: Slab yard to Dispatch Bay, including auxiliaries)	50%	• De-scalars, mill stand, bed plates, backup rolls, Work Rolls, mill spindles, chocks, AGC cylinders, bending blocks & cylinders, shears, down coilers, anti-friction roll neck bearings, oil film bearings, mill reducers, load cells, thickness gauge, profile gauge,

			width gauge, levelers, roll grinding machines, Coil Marking Machine, Plate Marking Machine, mill stand motors & mill stand MV drive system, automation system, etc.
13.2	CRM (PLTCM) (Boundary Limit: Pickling line entry to mill exit)	50%	Welding machine, tension leveler, mill stands, backup rolls, antifriction bearings, oil film bearings, roll chocks, roll force cylinders, roll bending and roll shifting cylinders, mill spindles, load cells, position transducers, Electrostatic Oiler, Side Trimmer, Steering System, Surface Inspection System, thickness gauges, laser speed gauge, tensiometer, Flatness Gauge, tension reel, mill reducers, mill stand motors & mill stand MV drive system, automation system etc.
13.3	CRM (HDGL) (Boundary Limit: entry to exit of HDGL including temper mill & tension leveler)	60%	Welding machine, radiant tube furnaces, jet cooling system, coating pot with induction heating, pot rolls, air knife wiping system, tension leveler, width gauge, thickness gauge, coating thickness gauge, load cells, roll force cylinders, mill stand motors & mill stand drive system, automation system, etc.
13.4	CRM (SPM) (Boundary Limit: entry to exit of SPM)	50%	Mill stands, backup rolls, antifriction bearings, oil film bearings, roll chocks, roll force cylinders, mill spindles, Electrostatic Oiler, Coil Marking System, load cells, thickness gauge, mill stand motors & mill stand MV drive system, automation system, etc.
13.5	CRM (Bell Annealing Furnace) (Boundary Limit: From furnace bases to post cooling equipment)	55%	Furnace, automation system, etc.
13.6	CRM (Color Coating Line) (Boundary Limit: Entry to exit of CCL)	80%	Coater, Coating thickness gauge, digital printer, tension leveler, automation, etc.
14	Long Product Mills		
14.1	Bar Mill/ WRM/MM/ LSM (Boundary Limit: From furnace entry to dispatch)	75%	Fast finishing blocks, Roll turning lathes, Profile Gauge, automation systems, etc.
14.2	Rail Mill/ Heavy Structural Mill (Boundary Limit: From furnace entry	45%	Mill stands, mill motor & drive system, heat treatment facility,

	to exit of the rail welding plant excluding material handling)		straightening machine, NDT facilities, welding machine, Profile Gauge, Hot Saw, Cold Saw, Hot Marking Machine, Roll Turning Lathe, Saw Grinding Machine, automation system, etc.
15	Wheel Plant (receipt of round/ingot to finished wheel)	30%	• Circular saw, forging press, wheel rolling mill, wheel dishing press, wheel stamping machine, rim spaying machine, mobile chargers, (Handling Robots), machining facilities, testing facilities, automation system etc.
16	Refractory Brick (Receipt of raw material to finished brick)	50%	• Hydraulic Press
17	Electrical (Power Quality System)	30%	• MVSTATCOM • (Static Synchronous Compensator) System

Appendix-C

Promotion of Indigenous Technologies in Iron & Steel Sector

1) Objective:

To promote self-reliance in the Indian iron and steel sector by incentivizing the adoption, development, and scale-up of indigenous technologies across all stages of steel manufacturing.

2) Scope:

This policy applies to Central Public Sector Enterprises involved in steelmaking or putting up a steel manufacturing plant.

3) Policy Directives:

3.1 In cases where technology and proof for earlier engineering & supply is available but does not match the present capacity requirement, following conditions will be applicable for indigenous technology providers:

3.1.1 Production capacity reference to be 30% of the capacity of the proposed plant

3.1.2 Availability of demonstrable tie ups with the vendors

3.1.3 Experience of detailed engineering of projects for at least 75% of the capacity of the proposed plant

3.2 In cases where technology is available but no reference for earlier supply is available, following conditions will be applicable for indigenous technology providers:

3.2.1 The indigenous technology supplier has done detailed engineering of projects matching at least 75% of the features of the proposed project

3.2.2 The indigenous technology supplier has done detailed engineering matching 100% of the critical features of the proposed project

3.2.3 Availability of demonstrable tie ups with the vendors

3.2.4 Demonstrable evidence of technology availability(IPR on other sufficient evidence)

4) Implementation Oversight:

The Standing Committee constituted by Ministry of Steel shall monitor implementation, resolve disputes, and update the eligibility and incentive criteria periodically.

Form-1**Format for Affidavit of Self Certification regarding Domestic Value Addition in Iron & Steel Products/capital goods to be provided on Rs. 100/-Stamp Paper****Date:**

I _____ S/o,D/o,W/o, _____ Resident of _____ Hereby solemnly affirm and declare as under:

That I will agree to abide by the terms and conditions of the policy of Government of India issued vide Notification No: _____.

That the information furnished hereinafter is correct to the best of my knowledge and belief and I undertake to produce relevant records before the procuring agency (ies) for the purpose of assessing the domestic value addition.

That the domestic value addition for all inputs which constitute the said iron & steel products has been verified by me and I am responsible for the correctness of the claims made therein.

That in the event of the domestic value addition of the product mentioned herein is found to be incorrect and not meeting the prescribed value-addition criteria, based on the assessment of procuring agency (ies) for the purpose of assessing the domestic value-addition, I will be disqualified from any Government tender for a period of 36 months. In addition, I will bear all costs of such an assessment.

That I have complied with all conditions referred to in the Notification No. _____ wherein preference to domestically manufactured iron & steel products in Government procurement is provided and that the procuring agency (ies) is hereby authorized to forfeit and my EMD. I also undertake to pay the assessment cost and pay all penalties as specified in the tender document.

I agree to maintain the following information in the Company's record for a period of 8 years and shall make this available for verification to any statutory authority.

- i. Name and details of the Bidder (Registered Office, Manufacturing unit location, nature of legal entity)
- ii. Date on which this certificate is issued
- iii. Iron & Steel Products for which the certificate is produced
- iv. Procuring agency to whom the certificate is furnished
- v. Percentage of domestic value addition claimed and whether it meets the threshold value of domestic value addition prescribed
- vi. Name and contact details of the unit of the manufacturer(s)
- vii. Net Selling Price of the iron & steel products
- viii. Freight, insurance and handling till plant

- ix. List and total cost value of input steel (imported) used to manufacture the iron & steel products
- x. List and total cost of input steel which are domestically sourced.
- xi. Please attach domestic value addition certificates from suppliers, if the input is not in house.
- xii. For imported input steel, landed cost at Indian port with break-up of CIF value, duties & taxes, port handling charges and in land freight cost.

For and on behalf of (Name of firm/entity)

Authorized signatory (To be duly authorized by the Board of Directors)

<Insert Name, Designation and Contact No.>

[F. No. 8(2)/2023-ID-I]

ABHIJIT NARENDRA, Jt. Secy.



भारत का राजपत्र The Gazette of India

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EXTRAORDINARY

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PART II—Section 3—Sub-section (i)

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इस्पात मंत्रालय

अधिसूचना

नई दिल्ली, 25 जुलाई, 2025

सा.का.नि. 502(अ).— भारत के राजपत्र, असाधारण, भाग II, खंड 3, उपखंड (i), सा.का.नि. 341 (अ) के संदर्भ में दिनांक 26 मई, 2025 को प्रकाशित घरेलू स्तर पर विनिर्मित लौह एवं इस्पात उत्पाद नीति-2025 के परिशिष्ट-ग में निम्नलिखित संशोधन एतद्वारा सामान्य सूचना के लिए प्रकाशित किया जाता है:

परिशिष्ट-ग में खंड 3.3 को खंड 3.2.4 के नीचे इस प्रकार जोड़ा गया है:

3.3 ऐसे मामलों में जहाँ कोई भारतीय प्रौद्योगिकी उपलब्ध नहीं है, वहाँ किसी भारतीय सीपीएसई (प्रापण संस्था सहित) को तीन वर्षों के भीतर प्रशिक्षण और हैंडहोलिंग सहित प्रौद्योगिकी हस्तांतरित करने के लिए प्रतिबद्ध विदेशी प्रौद्योगिकी आपूर्तिकर्ता को, घरेलू मूल्यवर्धन की प्रतिशतता पर ध्यान दिए बिना श्रेणी-I आपूर्तिकर्ता माना जाएगा। इस मामले में, समय-समय पर संशोधित डीपीआईआईटी के सार्वजनिक अधिप्राप्ति (मेक इन इंडिया को वरीयता) आदेश में परिभाषित विदेशी प्रौद्योगिकी आपूर्तिकर्ता को खरीद वरीयता दी जाएगी।

[फा. सं. 8(2)/2023-आईडी-1]

अभिजीत नरेन्द्र, संयुक्त सचिव

MINISTRY OF STEEL**NOTIFICATION**

New Delhi, the 25th July, 2025

G.S.R. 502(E).—The following amendment to Appendix-C of the Domestically Manufactured Iron & Steel Products Policy-2025, published in the Gazette of India, Extraordinary, Part II, Section 3, sub-section (i) vide G.S.R. 341(E), dated 26th May, 2025 is hereby published for general information:

Clause 3.3 is inserted below Clause 3.2.4 in Appendix-C as:

3.3 In cases where no Indian technology is available, a foreign technology supplier committing to transfer technology, including training and handholding to an Indian CPSE (including the procuring entity), within three years, shall be considered as deemed Class-I supplier irrespective of percentage of Domestic Value Addition. In this case, purchase preference shall be given to the foreign technology supplier as defined in DPIIT's Public Procurement (Preference to Make in India) Order amended from time to time.

[F. No. 8(2)/2023-ID-I]

ABHIJIT NARENDRA, Jt. Secy.



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इस्पात मंत्रालय

अधिसूचना

नई दिल्ली, 17 दिसम्बर, 2025

सा.का.नि. 904(अ).—घरेलू स्तर पर विनिर्मित पूर्ववर्ती लौह एवं इस्पात उत्पाद नीति के अधिक्रमण में, सरकारी अधिप्राप्ति में घरेलू स्तर पर विनिर्मित लौह एवं इस्पात उत्पादों को वरीयता प्रदान करने के लिए संशोधित घरेलू स्तर पर विनिर्मित लौह एवं इस्पात उत्पाद नीति-2025 को आम सूचना के लिए एतद्वारा प्रकाशित किया जाता है।

सरकारी अधिप्राप्ति में घरेलू स्तर पर विनिर्मित लौह एवं इस्पात उत्पादों को वरीयता देने के लिए नीति - संशोधित, 2025

1. पृष्ठभूमि

1.1 यह नीति सरकारी अधिप्राप्ति में घरेलू स्तर पर विनिर्मित लौह एवं इस्पात उत्पादों (डीएमआईएंडएसपी) को वरीयता देती है।

1.2 यह नीति परिशिष्ट क में अधिसूचित लौह एवं इस्पात उत्पादों की खरीद, परिशिष्ट ख में सूचीबद्ध पूंजीगत वस्तुओं की खरीद और परिशिष्ट ग में स्वदेशी प्रौद्योगिकी आपूर्तिकर्ताओं से प्रौद्योगिकी पर लागू होती है।

2. परिभाषाएं

2.1 बोलीदाता लौह एवं इस्पात का कोई घरेलू/विदेशी विनिर्माता अथवा उनके बिक्री एजेंट/अधिकृत वितरक/अधिकृत डीलर/अधिकृत आपूर्ति गृह अथवा सरकारी एजेंसियों द्वारा वित्त पोषित परियोजनाओं में बोली लगाने में कार्यरत कोई अन्य कंपनी हो सकती है।

2.2 घरेलू स्तर पर विनिर्मित लौह एवं इस्पात उत्पाद वे लौह एवं इस्पात उत्पाद हैं जिनका विनिर्माण उन प्रतिष्ठानों द्वारा किया जाता है जो भारत में पंजीकृत और स्थापित हैं, जिसमें विशेष आर्थिक क्षेत्र (एसईजेड) शामिल हैं।

2.3 घरेलू विनिर्माता केंद्रीय माल और सेवा कर अधिनियम, 2017 की धारा 2(72) के अनुरूप एक विनिर्माता है।

2.4 घरेलू मूल्य संवर्धन का अर्थ है भारत में जोड़े गए मूल्य की राशि जो अधिप्राप्त की जाने वाली वस्तु के कुल मूल्य (शुद्ध घरेलू अप्रत्यक्ष करों को छोड़कर) में से अधिप्राप्त की जाने वाली वस्तु के कुल मूल्य के अनुपात के रूप में वस्तु में आयातित सामग्री के मूल्य (सभी सीमा शुल्कों सहित) को घटाकर प्रतिशत में प्राप्त होगी। 'घरेलू मूल्य संवर्धन' की परिभाषा डीपीआईआईटी दिशा-निर्देशों के अनुरूप होगी और भविष्य में डीपीआईआईटी द्वारा किसी भी बदलाव के मामले में इसे उपयुक्त रूप से संशोधित किया जाएगा। इस नीति दस्तावेज के उद्देश्य के लिए, घरेलू मूल्य संवर्धन और स्थानीय सामग्री का परस्पर उपयोग किया गया है।

% घरेलू मूल्य संवर्धन =

{अधिप्राप्त की जाने वाली वस्तु का कुल मूल्य (शुद्ध घरेलू अप्रत्यक्ष करों को छोड़कर) - वस्तु में आयातित सामग्री का मूल्य (सभी सीमा शुल्कों सहित)}

----- X 100%

{अधिप्राप्त की जाने वाली वस्तु का कुल मूल्य}

2.5 तैयार इस्पात (फिनिश स्टील) का तात्पर्य सपाट और लंबे उत्पादों से होगा, जिन्हें बाद में प्रसाधित कर विनिर्मित वस्तु बनाया जा सकता है।

2.6 इस नीति के प्रयोजन से सरकार का तात्पर्य भारत सरकार से है।

2.7 सरकारी एजेंसियों में सरकार के सार्वजनिक क्षेत्र के उपक्रम, भारत सरकार द्वारा स्थापित सोसायटी, ट्रस्ट और सांविधिक निकाय शामिल हैं।

- 2.8 **स्वदेशी प्रौद्योगिकी:** किसी प्रौद्योगिकी को स्वदेशी प्रौद्योगिकी माना जाएगा यदि, इकाई की कम से कम 51% इक्विटी भारतीय निवासियों के पास हो और आईपीआर का स्वामित्व या सह-स्वामित्व किसी भारतीय इकाई के पास हो या विशेष रूप से उन्हें लाइसेंस प्राप्त हो तथा मुख्य इंजीनियरिंग अनुसंधान एवं विकास और परियोजना निष्पादन क्षमताएं भारत में हों।
- 2.9 **एल1 का तात्पर्य** निविदा अथवा अन्य अधिप्राप्ति अनुरोध के अनुसार मूल्यांकन प्रक्रिया में यथाघोषित निविदा, बोली लगाने संबंधी प्रक्रिया अथवा अन्य अधिप्राप्ति अनुरोधों में प्राप्त न्यूनतम निविदा अथवा न्यूनतम बोली अथवा न्यूनतम भाव से होगा।
- 2.10 **एमओएस** का आशय इस्पात मंत्रालय, भारत सरकार से है।
- 2.11 **खरीद वरीयता के मार्जिन** का तात्पर्य उस अधिकतम सीमा से है जिस सीमा तक किसी घरेलू आपूर्तिकर्ता द्वारा लगाई गई कीमत खरीद वरीयता के प्रयोजन से एल1 से अधिक हो। डीएमआईएंडएसपी नीति के मामले में, खरीद वरीयता का मार्जिन परिशिष्ट ख में शामिल मदों के लिए 20% होगा।
- 2.12 **मेल्ट एंड पोर** को एक ऐसे इस्पात के रूप में परिभाषित किया गया है जिसे इस्पात बनाने वाले फर्नेस में उत्पादित किया जाता है और इसे अपने पहले ठोस आकार में डाला जाता है। जिस स्थान पर यह प्रक्रिया होती है उसे मेल्ट एंड पोर (सीओएम) का उद्गम स्थल कहा जाता है। सीओएम वह मूल स्थान है जहाँ क्रूड इस्पात को पहली बार तरल अवस्था में उत्पादित किया जाता है और इसे अपने पहले ठोस आकार में डाला जाता है। मेल्ट एंड पोर (सीओएम) का देश भारत होना चाहिए। पहला ठोस आकार एक अर्ध-तैयार उत्पाद जैसे स्लैब, बिलेट, पिंड या एक तैयार इस्पात मिल उत्पाद हो सकता है।
- 2.13 **निवल बिक्री मूल्य** इन्वॉइस मूल्य होगा जिसमें निवल घरेलू कर और शुल्क शामिल नहीं होंगे।
- 2.14 **अर्ध-तैयार इस्पात** (सेमी-फिनिश स्टील) का तात्पर्य इनगोट्स, बिलेट्स, ब्लूम्स और स्लेब्स से है, जिसे बाद में प्रसाधित कर तैयार इस्पात बनाया जा सकता है।

3. अपवर्जन

- 3.1 इस्पात मंत्रालय द्वारा इस प्रकार की सभी सरकारी अधिप्राप्ति के लिये निम्नलिखित शर्तों के अध्यक्षीन छूट प्रदान की जा सकती है।
- 3.1.1 जहां विशिष्ट ग्रेडों के इस्पात का विनिर्माण देश में नहीं किया जाता हो, अथवा
- 3.1.2 जहां परियोजना की मांग के अनुसार इन मात्राओं को घरेलू स्रोतों के माध्यम से पूरा नहीं किया जा सकता हो।
- 3.2 छूट संबंधी अनुरोध लौह एवं इस्पात उत्पादों की घरेलू स्तर पर अनुपलब्धता के पर्याप्त प्रमाण के साथ स्थायी समिति के समक्ष प्रस्तुत किए जाएंगे।

4. स्थायी समिति

- 4.1 सचिव (इस्पात) की अध्यक्षता में एक स्थायी समिति नीति के कार्यान्वयन को देखेगी।

- 4.2. इस समिति में उद्योग/उद्योग संघ/सरकारी संस्था अथवा निकाय/इस्पात मंत्रालय (एमओएस) से लिए गए विशेषज्ञ शामिल होंगे। इस्पात मंत्रालय में उक्त समिति के पास निम्नलिखित के लिए अधिदेश होगा:
- 4.2.1 नीति के कार्यान्वयन की निगरानी करना।
- 4.2.2 परिशिष्ट क, परिशिष्ट ख और परिशिष्ट ग में उल्लिखित लौह एवं इस्पात उत्पादों की सूची, घरेलू सामग्री आवश्यकता मानदंड और नीति निर्देशों की समीक्षा करना और उन्हें अधिसूचित करना।
- 4.2.3 पैरा 3 के अनुसार प्रापण एजेंसियों को अपवर्जन की स्वीकृति देने सहित इस नीति के कार्यान्वयन के लिए आवश्यक स्पष्टीकरण जारी करना।
- 4.2.4 इस नीति के कार्यान्वयन से संबंधित शिकायतों की प्रारंभिक जांच के लिए एक शिकायत निवारण समिति का गठन करना।
- 4.2.5 अधिप्राप्ति एजेंसी द्वारा इस नीति का अनुपालन न किए जाने की स्थिति में संबंधित मंत्रालयों/विभागों को उचित कार्रवाई के लिए निर्देश जारी करना और सलाह देना।
- 4.3 जहां भी प्रापण इकाई इस निष्कर्ष पर पहुंचती है कि उपलब्ध बोलीदाता/विनिर्माता द्वारा अनुचित रूप से उच्च मूल्य निर्धारित किया गया है, तो मामले को स्थायी समिति को भेजा जा सकता है। ऐसे मामलों में, प्रापण इकाई को अपने मामले को पूर्ण और विस्तृत दस्तावेजों के साथ प्रमाणित करना होगा।
- 4.4 बोली दस्तावेज में विदेशी प्रमाणन/अनुचित तकनीकी विनिर्देश निर्दिष्ट करना स्थानीय आपूर्तिकर्ताओं के विरुद्ध प्रतिबंधात्मक और भेदभावपूर्ण व्यवहार है। यदि भारतीय मानकों की अनुपलब्धता और/या किसी अन्य कारण से विदेशी प्रमाणन निर्धारित करना आवश्यक है, तो ऐसा समिति की लिखित स्वीकृति के बाद ही किया जाएगा।
- 5. प्रयोज्यता**
- 5.1 यह नीति सरकार के प्रत्येक मंत्रालय अथवा विभाग और उनके प्रशासनिक नियंत्रणाधीन सभी एजेंसियों/इकाइयों तथा सरकारी परियोजनाओं के लिए लौह एवं इस्पात उत्पादों की खरीद हेतु इन एजेंसियों द्वारा वित्त पोषित परियोजनाओं पर लागू है। केन्द्रीय क्षेत्र की सभी योजनाएं (सीएस)/ केन्द्रीय प्रायोजित योजनाएं (सीएसएस) जिनके लिए राज्यों और स्थानीय निकायों द्वारा अधिप्राप्ति की जाती है, इस नीति की परिधि में आएंगी, यदि उस परियोजना/योजना को भारत सरकार द्वारा पूर्णतः/आंशिक रूप से वित्तपोषित किया जाता है।
- 5.2 यह नीति लौह एवं इस्पात उत्पादों के विनिर्माण के लिए पूंजीगत माल (परिशिष्ट-ख) की खरीद के लिए सार्वजनिक क्षेत्र के इस्पात विनिर्माताओं और उनके प्रशासनिक नियंत्रणाधीन एजेंसियों/निकायों पर लागू होती है।
- 5.3 परिशिष्ट-ख में लौह एवं इस्पात उत्पादों के विनिर्माण में उपयोग किए जाने वाले पूंजीगत माल की छूट संबंधी सूची शामिल है, जिन्हें आयात किया जा सकता है, तथा पैकेजों के लिए लागू न्यूनतम घरेलू सामग्री की आवश्यकता बताई गई है।
- 5.4 इस्पात विनिर्माण में उपयोग किए जाने वाले पूंजीगत माल के लिए 20% की खरीद वरीयता लागू है। उदाहरण के लिए, यदि आयात योग्य पूंजीगत माल के लिए न्यूनतम बोलीदाता (एमओएस) कोई विदेशी

कंपनी है, जिसने उत्पाद पैकेज के लिए 100 करोड़ रुपये की कीमत लगाई है, तो नीति के तहत, समान पूंजीगत माल के घरेलू आपूर्तिकर्ता के लिए 20% की खरीद वरीयता लागू होगी।

- 5.5 परिशिष्ट-ग में इस्पात बनाने वाले सीपीएसई के लिए स्वदेशी प्रौद्योगिकी आपूर्तिकर्ताओं से खरीद करने के निर्देश और कार्यप्रणाली दी गई है।
- 5.6 यह नीति उन परियोजनाओं और गैर-परियोजनाओं पर लागू होगी, जहाँ किसी संविदा में लौह एवं इस्पात उत्पादों (परिशिष्ट-क) का कुल अधिप्राप्ति मूल्य मदवार आधार पर 5 लाख रुपये से अधिक है।
- 5.7 लौह एवं इस्पात उत्पादों की अधिप्राप्ति से संबंधित निविदाओं के लिए कोई वैश्विक निविदा इन्क्वायरी (जीटीई) आमंत्रित नहीं की जाएगी (डीएमआईएंडएसपी नीति का परिशिष्ट-क)। लौह एवं इस्पात उत्पादों के विनिर्माण जिनका अनुमानित मूल्य 200 करोड़ रु. तक हो, (डीएमआईएंडएसपी नीति के परिशिष्ट-ख) के लिए पूंजीगत माल की अधिप्राप्ति से संबंधित निविदाओं के लिए कोई वैश्विक निविदा इन्क्वायरी (जीटीई) व्यय विभाग द्वारा यथा नाम-निर्दिष्ट सक्षम प्राधिकारी के अनुमोदन के अलावा आमंत्रित नहीं की जाएगी।
- 5.8 यह नीति सरकार के मंत्रालय अथवा विभाग या उनके सार्वजनिक क्षेत्र के उपक्रमों की किसी ईपीसी संविदा और/अथवा अन्य आवश्यकता को पूरा करने के लिए निजी एजेंसियों द्वारा लौह एवं इस्पातों की अधिप्राप्ति पर लागू है।

6. अधिप्राप्ति के लिए निविदा प्रक्रिया

- 6.1 प्रापण एजेंसियां डीएमआईएंडएसपी नीति का पालन करते समय वित्त मंत्रालय और सीवीसी के अनुदेशों के अनुसार मानक अधिप्राप्ति संबंधी प्रक्रियाओं का पालन करेगी।
- 6.2 माल की अधिप्राप्ति के साथ-साथ ईपीसी संविदाओं के लिए निविदा दस्तावेज में परिशिष्ट क और परिशिष्ट ख में उल्लिखित आवश्यकताओं के अनुपालन के लिए योग्यता मानदंड को स्पष्ट रूप से रेखांकित किया जाना चाहिए।
- 6.3 विनिर्माताओं, बिक्री एजेंटों, अधिकृत वितरकों, अधिकृत डीलरों और अधिकृत आपूर्ति घरों सहित सभी बोलीदाता अपनी बोली के हिस्से के रूप में फॉर्म-1 जमा करेंगे, भले ही वे विनिर्माता हो या अन्य।
- 6.4 वे बोलीदाता जो परिशिष्ट-क के अंतर्गत आने वाले लौह एवं इस्पात उत्पादों के घरेलू विनिर्माताओं के विक्रय एजेंट/अधिकृत वितरक/अधिकृत डीलर/अधिकृत आपूर्ति घर हैं, वे नीति के अंतर्गत घरेलू विनिर्माताओं की ओर से स्व-प्रमाणन के साथ बोली लगाने के लिए पात्र हैं, बशर्ते कि बोलीदाता डिलीवरी के समय घरेलू विनिर्माता द्वारा जारी किया गया प्राधिकार प्रमाणपत्र प्रस्तुत करें।
- 6.5 डीएमआईएंडएसपी नीति के परिशिष्ट ख के अंतर्गत आने वाले उत्पादों के लिए बोलीदाता को कंपनी के सांविधिक लेखापरीक्षक या लागत लेखापरीक्षक (कंपनियों के मामले में) या किसी प्रैक्टिसिंग लागत लेखाकार या प्रैक्टिसिंग चार्टर्ड अकाउंटेंट (कंपनियों के अलावा आपूर्तिकर्ताओं के संबंध में) द्वारा जारी प्रमाणन प्रस्तुत करेगा, जिसमें यह घोषणा की गई होगी कि लौह एवं इस्पात उद्योग में

उपयोग किए जाने वाले पूंजीगत माल निर्धारित घरेलू मूल्य संवर्धन के अनुसार घरेलू स्तर पर विनिर्मित किए गए हैं।

- 6.6 यदि किसी वस्तु के भारतीय आपूर्तिकर्ताओं को किसी विदेशी सरकार द्वारा अधिप्राप्ति में भाग लेने और/या प्रतिस्पर्धा करने की अनुमति नहीं है, प्रतिबंधात्मक निविदा शर्तों के कारण, जिनका प्रत्यक्ष या अप्रत्यक्ष रूप से भारतीय कंपनियों पर प्रतिबंध है, जैसे अधिप्राप्ति करने वाले देश में पंजीकरण, अधिप्राप्ति करने वाले देश में विशिष्ट मूल्य की परियोजनाओं का निष्पादन आदि, तो वह उचित पारस्परिक कार्रवाई के लिए प्रापण संस्थाओं को ऐसे विवरण उपलब्ध कराएगा।
- 6.7 इस्पात मंत्रालय द्वारा उन देशों की संस्थाओं की पहचान की गई है, जो भारतीय कंपनियों को इस्पात मंत्रालय से संबंधित किसी भी वस्तु के लिए अपनी सरकारी अधिप्राप्ति में भाग लेने की अनुमति नहीं देते हैं, उन्हें इस्पात मंत्रालय से संबंधित सभी वस्तुओं के लिए भारत में सरकारी अधिप्राप्ति में भाग लेने की अनुमति नहीं दी जाएगी, सिवाय इस्पात मंत्रालय द्वारा प्रकाशित उन वस्तुओं की सूची के जो उन्हें भाग लेने की अनुमति देती हैं।
- 6.8 उपरोक्त शर्त जैम पोर्टल सहित केन्द्र सरकार की प्रापण संस्थाओं द्वारा आमंत्रित सभी निविदाओं का हिस्सा होगी।
- 6.9 यदि बोली दस्तावेजों में घरेलू आपूर्तिकर्ताओं के खिलाफ प्रतिबंधात्मक या भेदभावपूर्ण शर्तें शामिल की जाती हैं, तो अधिप्राप्ति करने वाले प्रशासनिक विभाग (इसके प्रशासनिक नियंत्रण के तहत किसी भी इकाई द्वारा अधिप्राप्ति सहित) द्वारा इसकी जिम्मेदारी तय करने के लिए जांच की जाएगी। इसके बाद, संबंधित प्रावधानों के तहत प्रापण संस्थाओं के दोषी अधिकारियों के खिलाफ प्रशासनिक या अन्यथा उचित कार्रवाई की जाएगी। ऐसी सभी कार्रवाई की सूचना डीएमआईएंडएसपी नीति के तहत स्थायी समिति को भेजी जाएगी।
- 6.10 इस आदेश के उल्लंघन के लिए किसी प्रापण इकाई द्वारा प्रतिबंधित आपूर्तिकर्ता प्रतिबंध की अवधि के दौरान किसी अन्य अधिप्राप्ति करने वाली इकाई द्वारा अधिप्राप्ति के लिए इस आदेश के तहत वरीयता के लिए पात्र नहीं होगा। ऐसी अन्य प्रापण संस्थाओं के लिए प्रतिबंध उस तारीख से प्रभावी होगा जिस दिन यह अन्य अधिप्राप्ति करने वाली संस्थाओं के संज्ञान में आता है।
- 6.11 यदि, इस मामले को इस्पात मंत्रालय के पास भेजा जाता है, तब इस्पात मंत्रालय के अधीन गठित शिकायत निवारण समिति सरकारी एजेंसी के दृष्टिकोण पर विचार करने के बाद बोलीदाता से सभी दस्तावेजों के प्राप्त होने और उसका संदर्भ भेजे जाने के 4 सप्ताह के भीतर शिकायत का निपटारा करेगी। बोलीदाता से यह अपेक्षित होगा कि वे इस मामले के संदर्भ के 2 सप्ताह के भीतर इस्पात मंत्रालय के अंतर्गत शिकायत निवारण समिति को लौह एवं इस्पात उत्पादों में दावा किए गए घरेलू मूल्यवर्धन के समर्थन में आवश्यक दस्तावेज प्रस्तुत करें।

6.12 निविदा दस्तावेज में निर्धारित घरेलू मूल्यवर्धन का बोलीदाता द्वारा गलत घोषणा किए जाने की स्थिति में प्रापण एजेंसी शास्ती को स्पष्ट रूप से परिभाषित करेगी। मौजूदा नियमों के अनुसार शास्ती में ऐसे विनिर्माता/ सेवा प्रदाता आदि की ईएमडी को जब्त करना, अन्य वित्तीय शास्ती लगाना और उसे ब्लैकलिस्ट किया जाना शामिल हो सकता है।

7. इस्पात मंत्रालय द्वारा कार्यान्वयन की निगरानी

- 7.1 इस नीति के प्रावधान प्रकाशन की तारीख से 5 वर्षों की अवधि के लिए लागू रहेंगे और इस नीति की अवधि को इस्पात मंत्रालय के विवेक पर और आगे बढ़ाया जा सकता है।
- 7.2 इस्पात मंत्रालय इस नीति के कार्यान्वयन की निगरानी करने के लिए नोडल मंत्रालय होगा।
- 7.3 डीएमआईएंडएसपी नीति के अंतर्गत सभी एजेंसियां तिमाही आधार पर घोषणा पत्र भेजेगी जिसमें पिछले वित्तीय वर्ष के दौरान इस नीति के अनुपालन की सीमा और उसके अनुपालन न किए जाने के कारणों को दर्शाया जायेगा।

अनुलग्नक-क

लौह एवं इस्पात उत्पादों की सूची जिनकी अधिप्राप्ति केवल घरेलू स्रोतों से की जा सकती है

क्र.सं.	लौह एवं इस्पात उत्पाद	एचएस कोड	स्थिति
1	600 मि.मी. अथवा उससे अधिक की चौड़ाई वाले लौह अथवा गैर-मिश्रधातु इस्पात के फ्लैट रोल्ड उत्पाद, हॉट रोल्ड, क्लेड, प्लेट लगाया हुआ अथवा कोट किया हुआ नहीं	7208	मेल्ट एंड पोर्
2	600 मि.मी. अथवा उससे अधिक की चौड़ाई वाले लौह अथवा गैर-मिश्रधातु इस्पात के फ्लैट रोल उत्पाद, कोल्ड रोल्ड (कोल्ड रिड्यूज्ड किया हुआ), क्लेड, प्लेट लगाया हुआ अथवा कोट किया हुआ नहीं	7209	मेल्ट एंड पोर्
3	600 मि.मी. अथवा उससे अधिक की चौड़ाई वाले लौह अथवा गैर-मिश्रधातु इस्पात का फ्लैट रोल उत्पाद, क्लेड, प्लेट लगाया हुआ अथवा कोट किया हुआ	7210	मेल्ट एंड पोर्
4	600 मि.मी. से कम की चौड़ाई वाले लौह अथवा गैर-मिश्रधातु इस्पात का फ्लैट रोल उत्पाद, क्लेड, प्लेट लगाया हुआ अथवा कोट किया हुआ नहीं	7211	मेल्ट एंड पोर्
5	600 मि.मी. से कम की चौड़ाई का लौह अथवा गैर-मिश्रधातु इस्पात का फ्लैट रोल उत्पाद, क्लेड, प्लेट लगाया हुआ अथवा कोट किया हुआ	7212	मेल्ट एंड पोर्
6	लौह एवं गैर-मिश्रधातु इस्पात का अनियमित रूप से वूड क्वाइल में बार्स और रॉड, हॉट रोल्ड	7213	मेल्ट एंड पोर्
7	लौह अथवा गैर-मिश्रधातु इस्पात के अन्य बार्स और रॉड्स जिसे फोर्ज किए जाने की तुलना में आगे अधिक वर्क नहीं किया हुआ, हॉट रोल्ड, हॉट ड्रॉन अथवा हॉट एक्सट्रूडेड परंतु रोलिंग के बाद उसे टिविस्ट किये जाने सहित	7214	मेल्ट एंड पोर्
8	लौह अथवा गैर-मिश्रधातु इस्पात का अन्य बार्स एंड रॉड्स	7215	मेल्ट एंड पोर्
9	लौह अथवा गैर-मिश्रधातु इस्पात का एंगल, शेप और सेक्शन्स	7216	मेल्ट एंड पोर्
10	लौह अथवा गैर-मिश्रधातु इस्पात का वायर	7217	मेल्ट एंड पोर्
11	600 मि.मी. अथवा उससे अधिक की चौड़ाई का स्टेनलैस इस्पात का फ्लैट रोल्ड इस्पात	7219	मेल्ट एंड पोर्
12	600 मि.मी. से कम की चौड़ाई का स्टेनलैस इस्पात का फ्लैट रोल्ड इस्पात	7220	मेल्ट एंड पोर्
13	स्टेनलैस स्टील के अन्य बार्स और रॉड्स; स्टेनलैस स्टील का एंगल शेप और सेक्शन्स	7222	मेल्ट एंड पोर्
14	अन्य मिश्रधातु इस्पात के वायर	7229	मेल्ट एंड पोर्
15	लौह अथवा इस्पात के रेल, रेलवे अथवा ट्रामवे ट्रेक निर्माण सामग्री	7302	50% घरेलू मूल्यवर्धन
16	कास्ट लौह के ट्यूब, पाइप और हॉलो पाइप	7303	50% घरेलू मूल्यवर्धन
17	लौह (कास्ट आयरन को छोड़कर) अथवा इस्पात के ट्यूब पाइप और हॉलो प्रोफाइल, सीमलैस	7304	50% घरेलू मूल्यवर्धन
18	लौह अथवा इस्पात के सर्कुलर क्रॉस सेक्शन वाले अन्य ट्यूब और पाइप (उदाहरण के लिए, वेल्ड किया हुआ, रिबेट किया हुआ अथवा	7305	50% घरेलू मूल्यवर्धन

	समान रूप से बंद किया हुआ), जिसकी बाहरी त्रिज्या 406.4 मि.मी. से अधिक हो		
19	लौह अथवा इस्पात के अन्य ट्यूब, पाइप और हॉलो प्रोफाइल (उदाहरण के लिए ओपन सीन अथवा वेल्ड किया हुआ, रिबेट किया हुआ अथवा समान रूप से बंद किया गया हुआ)	7306	50% घरेलू मूल्यवर्धन
20	लौह अथवा इस्पात के ट्यूब अथवा पाइप फिटिंग (उदाहरण के लिए, कनेक्टर/कप्लिंग, एल्बो स्लीव्स)	7307	50% घरेलू मूल्यवर्धन
21	स्टेनलैस स्टील का अनियमित रूप से वूड क्वाइल में बार्स और रॉड, हॉट-रोल्ड	7221	मेल्ट एंड पोर
22	स्टेनलैस स्टील का वायर	7223	मेल्ट एंड पोर
23	इलेक्ट्रिकल स्टील सहित 600 मि.मी. अथवा उससे अधिक की चौड़ाई वाले अन्य मिश्रधातु इस्पात का फ्लैट-रोल्ड इस्पात	7225	मेल्ट एंड पोर
24	इलेक्ट्रिकल स्टील सहित 600 मि.मी. से कम की चौड़ाई वाले अन्य मिश्रधातु इस्पात का फ्लैट-रोल्ड इस्पात	7226	मेल्ट एंड पोर
25	अन्य मिश्रधातु इस्पात का अनियमित रूप से वूड क्वाइल में बार्स और रोड, हॉट-रोल्ड	7227	मेल्ट एंड पोर
26	अन्य मिश्रधातु इस्पात का अन्य बार्स और रॉड्स; अन्य मिश्रधातु इस्पात का एंगल, शेप्स और सेक्शन्स; एलॉय अथवा गैर- मिश्रधातु इस्पात का हॉलो ड्रिल बार्स और रॉड्स	7228	मेल्ट एंड पोर
27	लौह अथवा इस्पात की शीट पाइलिंग, चाहे ड्रिल किया हुआ हो अथवा नहीं, चाहे पंच किया हुआ हो अथवा नहीं, चाहे असेम्बल किये हुए तत्वों से बना हुआ हो अथवा नहीं; लौह अथवा इस्पात का वेल्ड किया हुआ एंगल, शेप और सेक्शन्स	7301	50% घरेलू मूल्यवर्धन
28	स्ट्रक्चर्स (9406 के शीर्ष का प्रीफैब्रिकेटेड भवनों को छोड़कर) और स्ट्रक्चर्स का हिस्सा	7308	50% घरेलू मूल्यवर्धन
29	300 से अधिक क्षमता का लौह अथवा इस्पात का किसी सामग्री (कम्प्रेस किए हुए अथवा तरलीकृत गैस को छोड़कर) के लिए भंडार, टैंक, वैट और समान कन्टेनर चाहे उसे लाइन किया गया हो अथवा नहीं या उसे हीट से इन्सुलेट किया गया हो अथवा नहीं लेकिन यांत्रिक अथवा तापीय उपक्रम से युक्त न हो	7309	50% घरेलू मूल्यवर्धन
30	अधिकतम 300 लीटर की क्षमता का लौह अथवा इस्पात का किसी सामग्री (कम्प्रेस किए हुए अथवा तरलद्रवी गैस को छोड़कर) के लिए टैंक, कास्ट, ड्रम, केन, बॉक्स और समान कन्टेनर चाहे उसे लाइन किया गया हो अथवा नहीं या उसे हीट से इन्सुलेट किया गया हो अथवा नहीं लेकिन यांत्रिक अथवा तापीय उपक्रम से युक्त न हो	7310	50% घरेलू मूल्यवर्धन
31	लौह अथवा इस्पात का कम्प्रेस किया हुआ अथवा तरलीकृत गैस के लिए कन्टेनर	7311	50% घरेलू मूल्यवर्धन
32	लौह अथवा इस्पात का स्टैंडिड वायर, रोप, केबल, प्लेटिड बैंड, स्लिंग और उसके समान वस्तु जिसे विद्युतीय रूप से इन्सुलेट न किया गया	7312	50% घरेलू मूल्यवर्धन
33	लौह अथवा इस्पात का फेनसिंग के लिए उपयोग किये जाने वाला बार्ड वायर; ट्विस्ट किया हुआ हूप अथवा सिंगल फ्लैट वायर, बार्स	7313	50% घरेलू मूल्यवर्धन

	किया हुआ अथवा नहीं और लूज तरीके से ट्विस्ट किया हुआ डबल वायर		
34	लौह अथवा इस्पात वायर का ग्रिल, नेटिंग और फेनसिंग; लौह अथवा इस्पात संबंधित एक्सपैंडेड विस्तृत धातु	7314	50% घरेलू मूल्यवर्धन
35	लौह अथवा इस्पात का चैन और उसका हिस्सा	7315	50% घरेलू मूल्यवर्धन
36	लौह अथवा इस्पात का टैंकर, ग्रेपनेल्स और उसका हिस्सा	7316	50% घरेलू मूल्यवर्धन
37	लौह एवं इस्पात की वस्तुएं	7317	50% घरेलू मूल्यवर्धन
38	लौह एवं इस्पात की वस्तुएं	7318	50% घरेलू मूल्यवर्धन
39	लौह एवं इस्पात की वस्तुएं	7319	50% घरेलू मूल्यवर्धन
40	लौह अथवा इस्पात की स्प्रिंग और स्प्रिंग के लिए लीव्स	7320	50% घरेलू मूल्यवर्धन
41	लौह अथवा इस्पात के स्टोव्स, रेंज, ग्रेड, कूकर (सेंट्रल हिटिंग के लिए सहायक बॉयलरों के साथ उन वस्तुओं सहित), बारबेक्यूज, ब्रेजियर्स, गैस रिंग, प्लेट वॉर्मर्स और समान गैर-विद्युतीय घरेलू उपकरण और उसका हिस्सा	7321	50% घरेलू मूल्यवर्धन
42	लौह अथवा इस्पात का सेंट्रल हिटिंग के लिए रेडियेटर जिसे विद्युतीय रूप से हीट न किया गया हो और उसका हिस्सा; लौह अथवा इस्पात का हेयर हीटर और हॉट एयर वितरक जिसे विद्युतीय रूप से हीट न किया गया हो, फेन अथवा ब्लोअर जो मोटर से चलती हो और उसके हिस्से को शामिल करते हुए	7322	50% घरेलू मूल्यवर्धन
43	लौह अथवा इस्पात का टेबल और समान घरेलू वस्तुएं और उसका हिस्सा	7323	50% घरेलू मूल्यवर्धन
44	लौह अथवा इस्पात के सेनेटरी वेयर और उसके पार्ट्स	7324	50% घरेलू मूल्यवर्धन
45	लौह अथवा इस्पात के अन्य कास्ट सामान	7325	50% घरेलू मूल्यवर्धन
46	लौह अथवा इस्पात का विद्युतीय इस्पात और अन्य वस्तुएं	7326	50% घरेलू मूल्यवर्धन
47	रेलवे अथवा ट्रामवे पैसेंजर कोच जो स्व-चालित नहीं है	8605	50% घरेलू मूल्यवर्धन
48	रेलवे अथवा ट्रामवे माल वेन और वेगेन जो स्व-चालित नहीं है	8606	50% घरेलू मूल्यवर्धन
49	रेलवे अथवा ट्रामवे लोकोमोटिव का हिस्सा अथवा रोलिंग स्टॉक जैसे बोगिज, बिसल बोगिज, एक्सेल और फोर्ज्ड किया हुआ पहिया और उसका हिस्सा	8607	50% घरेलू मूल्यवर्धन

परिशिष्ट- ख

लौह एवं इस्पात उत्पादों के विनिर्माण के लिए आयात किए जा सकने वाले पूंजीगत माल (गैर-संपूर्ण) और पैकेज के लिए लागू न्यूनतम घरेलू सामग्री की सूची

क्र.सं.	संयंत्र/यूनिट पैकेज	पूंजीगत माल की न्यूनतम घरेलू सामग्री (%)	आयात योग्य वस्तुएँ
1	खनन विकास के लिए उपस्कर • क्रशिंग एवं स्क्रीनिंग संयंत्र • खनिज बेनिफिशियेशन (लौह अयस्क और कोयला) संयंत्र; (बाउंड्री लिमिट: क्रेशर हॉपर में आरओएम की प्राप्ति, विखंडन, पृथक्करण, अयस्क/कोयला प्रसंस्करण से लेकर अंतिम उत्पाद तैयार करना) • स्लाइम बेनिफिशियेशन • स्वचालित लोडिंग सुविधा • कन्वेयर प्रणाली	75%	• वेट हाई इंटेंसिटी मैग्नेटिक सैपरेटर / हाई ग्रेडीअन्ट मैग्नेटिक सैपरेटर • हैवी मीडिया साइक्लोन • जाइरेटरी क्रशर • स्पाइलर कंसट्रेटर • ऑनलाइन ऐश एनालाइजर • बॉल/रॉड/एजी मिल (3.5मी व्यास से अधिक)
2	खनन परिवहन • स्लरी पाइपलाइन • लंबी दूरी की कन्वेयिंग प्रणाली	30%	• पीडी पंप • वॉल्व • विशिष्ट/रोप/पाइप कन्वेयर
3	खदानों के लिए अन्य खनन मशीनरी और हैवी अर्थ मूविंग उपस्कर (बाउंड्री लिमिट: ड्रिलिंग, रेजिंग, लैडिंग, हॉलेज और खदान तैयार करने के लिए उपस्कर)	लागू नहीं	• डम्पर (220 टन से अधिक पे लोड क्षमता), हाइड्रोलिक एक्सकेवेटर (9 क्यूबिक मीटर बकेट क्षमता से अधिक)
4	पैलेट संयंत्र उपस्कर (बाउंड्री लिमिट - फ्लक्स और बाइंडर के लिए ग्राउंड हॉपर प्राप्त करना, बेल्ट कन्वेयर उत्पाद पैलेट बेल्ट कन्वेयर को आईओएफ फीडिंग)	85%	• पैलेट कार, हाई इंटेंसिव मिक्सर, बॉलिंग डिस्क, वर्टिकल रोलर मिल, ड्राइव/डिस्चार्ज एंड स्प्रोकेट असेंबली, कर्व्ड रेल, स्लाइड रेल, सिंगल डेक रोलर स्क्रीन और डबल डेक रोलर स्क्रीन, इंड्यूरेशन मशीन ड्राइव असेंबली, लेवल-2 ऑटोमेशन

लौह/इस्पात निर्माण			
5	कच्चे माल की हैंडलिंग प्रणाली (बाउंड्री लिमिट - वैगन टिपलर से संबंधित उपयोगकर्ता इकाइयों तक)	95%	बैरल कप्लिंग, हेवी ड्यूटी बियेरिंग, क्रेन रेल लुब्रिकेशन प्रणाली, स्लियू रिंग बियेरिंग्स, टॉग्स (विशेष), वाइब्रेशन आइसोलेशन प्रणाली (स्प्रिंग डैम्पर), हाइड्रॉलिक मोटर और हाइड्रॉलिक पंप (वैगन टिपलर, साइड आर्म चार्ज, स्टैकर सह रिकलेमर, स्लियू स्टैकर में स्थापित) इलेक्ट्रॉनिक कार्ड, अनबैलेंस्ड मोटर, वैगन टिपलर का कैम लिमिट स्वीच।
6	कोक ओवन बैटरी (टॉप चार्ज और स्टैम्प चार्ज दोनों) (कोयला बंकर से कोक डिस्चार्ज बकेट तक)	90%	एंकरेज सिस्टम के स्प्रिंग्स, सीओजी बूस्टर, स्टैम्पिंग ट्रेन, बॉन्डिंग प्रेस
7	कोक ड्राई क्वेन्चिंग संयंत्र (हॉट कोक प्राप्त करने वाली बकेट से कूलिंग चैम्बर के डिस्चार्ज श्यूट ढलान तक)	90%	मिल फैन और मोटर, कूलिंग चैम्बर के ट्विन फ्लू के लिए विशेष रिफैक्ट्री
8	उपोत्पाद संयंत्र (प्राथमिक गैस कूलर से स्वच्छ कोक ओवन गैस के नेटवर्क तक)	90%	एग्जॉस्टर और मोटर, क्लॉज किल्न का बर्नर, कैटलिस्ट, टेल गैस विश्लेषक, पैलेटाइजेशन इकाई
9	सिंटर संयंत्र उपस्कर (बाउंड्री लिमिट - उत्पाद सिंटर बिन के नीचे वाइब्रो-फीडर हेतु कच्चे माल के लिए रिसिविंग बिन)	75%	- हाई इन्टेन्सिव मिक्सर और ग्रेनुलेटर इकाई, पैलेट कार, ड्राइव स्प्रोकेट, सिंटर मशीन के गियर बॉक्स के साथ मुख्य ड्राइव, स्लाइड रेल और कर्व्ड रेल, हॉट सिंटर ब्रेकर और ग्रेजली, एनुलर डिप रेल कूलर, सिंटर प्लांट एग्जॉस्टर अनुप्रयोग के लिए एलसीआई ड्राइव सिस्टम - इगनिशन फर्नेस स्पेयर पार्ट्स (रिफैक्ट्री/नियंत्रण प्रणाल/बर्नर असेंबली) - इग्जॉस्टर (वेस्ट गैस फैन) और सिस्टम स्पेयर पार्ट्स

10	ब्लास्ट फर्नेस उपस्कर बाउंड्री लिमिटः इनपुटः • कच्चा माल - संबंधित सामग्री के बंकरों का ऊपरी भाग • कोल्ड ब्लास्ट - स्नॉर्ट वाल्व का इनलेट • औद्योगिक जल - बीएफ पंप हाउस आउटपुट • हॉट मेटल - टारपीडो लेडल में भरी जाती है • ग्रेनुलेटिड स्लैग - ग्रेनुलेटिड स्लैग यार्ड के लिए	70%	• बेल लेस टॉप गियर बॉक्स, ऊपरी सील डिवाइस जो ऊपरी सामग्री गेट और ऊपरी सील वाल्व को कवर करती है, निचली सील डिवाइस जो निचले सामग्री गेट और निचले सील वाल्व को कवर करती है, ब्लीडर वाल्व, टिल्टिंग रॉकर, वियर लाइनर्स, गौगल वॉल्व, इक्वलाइजिंग एंड रीलीफ वॉल्व, श्यूट रोटेशन मोटर्स, डिस्ट्रीब्यूशन श्यूट, फीडर स्पाउट, श्यूट्स और फनल्स आदि। • हार्थ रिफ्रेक्टरी (कार्बन ब्लॉक) • टॉप रिकवरी टर्बाइन सिस्टम (टीआरटी) • क्यू-स्टेव्स • एसजीआई स्टेव्स • कास्ट हाउस उपस्कर (मड गन, ड्रिलिंग मशीन और मुख्य ट्रॉफ मैनिपुलेटर) • प्रोब, प्रोफाइलोमीटर और स्टॉक स्तर सूचक (रडार टाईप) • गैस सफाई संयंत्र (एजीएस प्रणाली) • स्टोव सिस्टम - सिरैमिक बर्नर और तकनीकी वाल्व • अपशिष्ट ऊष्मा पुनर्प्राप्ति प्रणाली • टर्बो ब्लोअर • बॉल मिल • पीसीआई इंजेक्शन सिस्टम • लेवल-II ऑटोमेशन • कॉपर प्लेट कूलर्स • टूयेर कूलर्स • स्टोव टेक्नोलॉजिकल वाल्व • एसजीपी का डीवाटरिंग व्हील • टोरपेडो लैंडल कार चैन असेंबली • डोम फिल्ड डंप वाल्वस • टूयेर स्टाक असेंबली
11	गैस आधारित डायरेक्ट रीडक्शन संयंत्र उपस्कर (बाउंड्री लिमिटः डीआरआई रिएक्टर के शीर्ष पर कच्चे माल की प्राप्ति और ईएएफ में हॉट डीआरआई का डिस्चार्ज)	50%	• रिएक्टर चार्जिंग सिस्टम • रिएक्टर • रिएक्टर डिस्चार्जिंग प्रणाली • ईएएफ में नुमैटिक ट्रांसफर • ब्रिकेटिंग प्रणाली के लिए डिस्चार्ज रूट • ब्रिकेटिंग फीडिंग सिस्टम

			• ब्रिकेटिंग प्रणाली • रिडक्शन गैस सर्किट • CO₂ निष्कासन इकाई • प्रक्रिया गैस हीटर • सुधारक प्रणाली • हीट रिकवरी प्रणाली • प्रोसेस गैस कम्प्रेसर • ब्लोअर्स • सील गैस प्रणाली • फ्लू गैस फैन/हॉट फैन • प्रोसेस वाल्व • क्रिटिकल बेलोज • क्रिटिकल रिफ्रेक्टरी • प्राकृतिक गैस शोधन पूर्व प्रणाली • लेवल-II ऑटोमेशन
12	ऑक्सीजन संयंत्र 700 टीपीडी और उससे अधिक (बाउंड्री लिमिट; ऑक्सीजन संयंत्र सीमा पर पानी, विद्युत)	30%	• मुख्य एयर कंप्रेसर • बूस्टर एयर कंप्रेसर • एक्सपेंशन टरबाइन • रिबॉयलर • क्रायोजेनिक पंप • एसयू के हीट विनिमय तत्व • प्रेशर कॉलम • मुख्य कंडेंसर, लो प्रेशर कॉलम • क्रूड आर्गन कॉलम, शुद्ध आर्गन कॉलम और कंडेंसर के साथ कंडेंसर ब्लॉक • मुख्य हीट एक्सचेंजर, शुद्ध आर्गन इवापरेटर सब-कूलर • एलओएक्स-आइसी-प्रोसेस पंप • एलआइएन-आइसी-प्रोसेस पंप • एलएआर-ट्रांसफर -प्रोसेस पंप • डेंस फ्लूइड एक्सपेंडर • बूस्टर हीट एक्सचेंजर • पीपीयू के लिए मॉलिक्यूलर सीव्स स्विचिंग वाल्व • क्रिटिकल सेफ्टी वाल्व • स्पेशलाइज्ड वाल्व • कंट्रोल वाल्व • कोल्ड बॉक्स • कंट्रोल वाल्व जीओएक्स प्रोडक्ट

			- कोल्ड बॉक्स के फ्लो मापने वाले उपकरण - एक्सपेंडर - ब्रेक जेनरेटर, फ्रीक्वेंसी कन्वर्टर
13	इस्पात प्रसंस्करण		
13.1	हॉट मेटल डी-डी-सल्फराइजेशन स्टेशन (एचएमडीएस) यूनिट के साथ को-इंजेक्शन प्रक्रिया (ब्लास्ट फर्नेस (बीएफ) से हॉट मेटल को टारपीडो लेडल या ओपन-टॉप लेडल में प्राप्त होता है "सल्फर(एस)" सामग्री को कम करने के लिए डीसल्फराइजेशन शोधन से गुजारा जाता है और फिर बीओएफ कनवर्टर में स्थानांतरित किया जाता है)	75%	- इंजेक्शन लांस और सहायक उपकरणों के साथ स्वचालित सैंपलिंग इकाई - सहायक उपकरणों के साथ डी-स्लैगिंग मशीनें (स्लैग रेकिंग मशीन) - सहायक उपकरणों के साथ तापमान मापने और नमूना लेने के साधन
13.2	हॉट मेटल डी-डी-सल्फराइजेशन स्टेशन (एचएमडीएस) यूनिट मैकेनिकल स्टिरर (केआर) प्रक्रिया के साथ (ब्लास्ट फर्नेस (बीएफ) से हॉट मेटल टारपीडो लेडल या ओपन-टॉप लेडल में प्राप्त होता है, "सल्फर (एस)" सामग्री को कम करने के लिए डीसल्फराइजेशन शोधन से गुजारा जाता है और फिर बीओएफ कनवर्टर में स्थानांतरित किया जाता है)	70%	- सहायक उपकरणों के साथ इम्पेलर, इम्पेलर लिफ्टिंग और स्टीरिंग उपस्कर, गाइड फ्रेम - सहायक सुविधाओं के साथ डी-स्लैगिंग मशीनें (स्लैग रेकिंग मशीन) - सहायक उपकरणों के साथ तापमान मापने और नमूना लेने का साधन
13.3	बेसिक ऑक्सीजन फर्नेस/एलडी ईकाई [शोधित हॉट मेटलको बीओएफ कनवर्टर में डाला जाता है, जहां इसे इस्पात में परिवर्तित करने के लिए प्रसंस्कृत किया जाता है, जिसकी फिर लैडल फर्नेस (एलएफ) में आपूर्ति की जाती है]	65%	- क्लैम्पिंग के साथ लांस बॉडी, लांस कैरिज, लांस गाइड, लांस होइस्ट और ट्रॉली, सहायक उपकरणों के साथ लांस कॉपर टिप्स। - आपातकालीन टिल्टिंग ड्राइव के लिए न्यूमेटिक मोटर्स। - ज्वाइंट के साथ बॉटम स्टीरिंग प्रणाली, वाल्व स्टेशन और रोटरी - सहायक उपकरणों के साथ ऑक्सीजन/आर्गन/नाइट्रोजन के लिए वाल्व

			स्टेशन • सहायक उपकरणों के साथ उप-लांस प्रणाली • सभी सहायक उपकरणों सहित कंटेनर प्रयोगशाला। • सहायक उपकरणों के साथ स्वचालित गैस कपलिंग (ऑटो कपलर)। • कनवर्टर रेकिंग मशीन। • कनवर्टर टैप होल बदलने की मशीन • रिफ्रैक्टरी निगरानी (लेजर) मशीन। • कन्वर्टर शेल पार्ट्स, सस्पेंशन सिस्टम, रोटरी जॉइंट, स्लैंग स्टॉपर और इसके कंट्रोल वाल्व • कन्वर्टर टिल्टिंग ड्राइव सिस्टम और सस्पेंशन सिस्टम, गियरबॉक्स और मोटर्स, न्यूमेटिक मोटर्स और कंट्रोल वाल्व, पोजीशन एनकोडर, क्लच सिस्टम, लुब्रिकेशन सिस्टम कंपोनेंट्स। • लैडल ट्रांसफर कार रेल ट्रैक सिस्टम (ए सीरीज़ टाइप) और गियरबॉक्स, स्टिरिंग कपलिंग। • लोमास गैस एनालाइज़र, मल्टी-लैब तापमान और सेंपल सिस्टम। • लैडल ट्रांसफर कारों के लिए स्टिरिंग कपलिंग। • पीएलसी और आरआइओ। • ऑटोमेशन सिस्टम और सॉफ्टवेयर। • हॉट ज़ोन हाइड्रोलिक पंप और वाल्व। • व्हील ब्लॉक के साथ हॉट ज़ोन गियर वाले मोटर्स। • कन्वर्टर बेयरिंग। • हवा और बिजली से चलने वाला स्लरी कॉम्पेक्शन पंप। • प्राइमरी आईडी फैन, बेयरिंग, मोटर्स, ड्राइव और लुब्रिकेशन सिस्टम। • डब्ल्यूडीएस-कोन
13.4	इलेक्ट्रिक आर्क फर्नेस यूनिट (प्राथमिक सामग्री जैसे स्क्रेप, डीआरआई, पिग आयरन और हॉट मेटल को विद्युत ऊर्जा का उपयोग	70%	• सहायक उपकरणों के साथ इलेक्ट्रोड रेगुलेशन प्रणाली • फर्नेस ट्रांसफार्मर सहित हाई करंट प्रणाली • सहायक उपकरणों के साथ ऑक्सीजन और कार्बन इंजेक्शन प्रणाली

	करके तरल इस्पात में परिवर्तित किया जाता है, जिससे कच्चे माल को पिघलाया और परिष्कृत किया जाता है)		सहायक उपकरणों के साथ मैनुअल तापमान मापन और नमूनाकरण लांस
13.5	लैडल फर्नेस यूनिट [तरल इस्पात को वांछित ग्रेड प्राप्त करने के लिए संसाधित/शोधित किया जाता है और निरंतर कास्टिंग मशीन (सीसीएम) को आपूर्ति किए जाने से पहले बफर स्टॉक के रूप में रखा जाता है]	70%	- सहायक उपकरणों के साथ इलेक्ट्रोड विनियमन प्रणाली - सहायक उपकरणों के साथ मैनुअल तापमान मापन और नमूनाकरण लांस
13.6	आरएच/आरएच-ओबी यूनिट [आवश्यक विघटित गैस स्तर प्राप्त करने के लिए तरल इस्पात को डीगैस किया जाता है और फिर निरंतर कास्टिंग मशीन (सीसीएम) को आपूर्ति की जाती है]	65%	- सहायक उपकरणों के साथ गैस स्टिरिंग सिस्टम/लिफ्ट गैस स्टिरिंग सिस्टम वॉल्व स्टैंड - सहायक उपकरणों के साथ ऑक्सीजन लांस प्रणाली - सहायक उपकरणों के साथ हाइड्रिस मापन प्रणाली
13.7	आर्गन/ऑक्सीजन डीकार्बराइजेशन (एओडी) इकाई	70%	- एओडी कन्वर्टर को टिल्ट करने के लिए ड्राइव यूनिट, एयर मोटर, ब्रेक आदि। - लांस कॉपर टिप्स - पानी और ऑक्सीजन के लिए होज़ - इमरजेंसी टिल्टिंग ड्राइव के लिए न्यूमेटिक मोटर। - एओडी कन्वर्टर के लिए बेयरिंग, एयर मोटर के लिए इमरजेंसी गियर - सहायक उपकरणों के साथ ऑक्सीजन/आर्गन/नाइट्रोजन के लिए वाल्व स्टेशन। - रिफ्रैक्टरी मॉनिटरिंग (लेजर) मशीन - ऑटोमेशन सिस्टम।
13.8	वीडी/वीओडी	70%	- गैस एनालिसिस (ऑफ-गैस मास स्पेक्ट्रोमीटर) सिर्फ सेंसर। होल्डर भारत में बना है। - ऑटोमेशन और प्रोसेस कंट्रोल सॉफ्टवेयर प्लेटफॉर्म - सहायक उपकरणों के साथ वैक्यूम पंप सिस्टम - ऑक्सीजन टिप्स

			सहायक उपकरणों के साथ ऑक्सीजन/आर्गन/नाइट्रोजन के लिए वाल्व स्टेशन।
13.9	सबमर्ज्ड आर्क फर्नेस (एसएएफ) इकाई	65%	- क्ले गन और ड्रिल मशीन - इलेक्ट्रोड उपकरण - स्लिपिंग डिवाइस असेंबली - इलेक्ट्रोड गाइडिंग असेंबली - ऊपरी और निचली मेंटल असेंबली - प्रेसर रिंग असेंबली - कॉन्टैक्ट शू असेंबली - हीट शील्ड असेंबली - इलेक्ट्रोड सील असेंबली - प्रेसर रिंग बेलोज़ - सील रिफ़ैक्टरी - फर्नेस ऑटोमेशन और कंट्रोलर सॉफ्टवेयर
13.10	सतत कास्टिंग इकाई (स्लैब कास्टर/बिलेट/ब्लूम राउंड/कॉम्बी/बीम ब्लॉक) [तरल इस्पात को निरंतर कास्टिंग मशीन (सीसीएम) में स्लैब, बिलेट या ब्लूम में ढाला जाता है]	65%	- सहायक उपकरणों सहित लैंडल स्लैग डिटेक्शन प्रणाली - कॉपर ट्यूब और प्लेट, मोल्ड ऑसीलेशन सिलेंडर। - रोटरी यूनियन। - सहायक उपकरणों सहित सतत तापमान माप प्रणाली। - सहायक उपकरणों के साथ टॉर्च कटिंग मशीन/आपातकालीन टॉर्च कटर - सहायक उपकरणों सहित विद्युत ड्राइव सिस्टम सहित डी-ब्यूरिंग मशीन - मार्किंग मशीन। - सहायक उपकरणों सहित रोल गैप चेकर - सहायक उपकरणों सहित इलेक्ट्रोमैग्नेटिक स्टिरर (ईएमएस)/इलेक्ट्रोमैग्नेटिक ब्रेकिंग (ईएमबीआर) प्रणाली
14	फलैट उत्पाद मिल्स		
14.1	हॉट स्ट्रिप मिल्स/प्लेट मिल (बाउंड्री लिमिट: सहायक उपकरणों सहित स्लैब यार्ड से डिस्पैच बे तक)	50%	डी-स्केलर, मिल स्टैंड, बेड प्लेट, बैकअप रोल, वर्क रोल, मिल स्पिंडल, चॉक्स, एजीसी सिलेंडर, बेंडिंग ब्लॉक और सिलेंडर, शियर, डाउन कॉइलर, एंटी-फ्रिक्शन रोल नेक बेयरिंग, ऑयल फिल्म बेयरिंग, मिल

			रिड्यूसर, लोड सेल, थिकनेस गॉज, प्रोफाइल गॉज, लेवलर, रोल ग्राइंडिंग मशीन, काँइल मार्किंग मशीन, प्लेट मार्किंग मशीन, मिल स्टैंड मोटर्स और मिल स्टैंड एमवी ड्राइव सिस्टम, ऑटोमेशन सिस्टम आदि।
14.2	सीआरएम (पीएलटीसीएम) (बाउंड्री लिमिट: पिकलिंग लाइन एंट्री से मिल एक्जिट तक)	50%	वेल्डिंग मशीन, टेंशन लेवलर, मिल स्टैंड, बैकअप रोल, एंटीफ्रिक्शन बीयरिंग, ऑयल फिल्म बीयरिंग, रोल चॉक्स, रोल फोर्स सिलेंडर, रोल बेंडिंग और रोल शिफ्टिंग सिलेंडर, मिल स्पिंडल, लोड सेल, पोजिशन ट्रांसड्यूसर, इलेक्ट्रोस्टैटिक ऑइलर, साइड ट्रिगर, स्टीयरिंग सिस्टम, सरफेस इंस्पेक्शन सिस्टम, थिकनेस गेज, लेजर स्पीड गेज, टेंसियोमीटर, फ्लैटनेस गॉज, टेंशन रील, मिल रिड्यूसर, मिल स्टैंड मोटर्स और मिल स्टैंड एमवी ड्राइव सिस्टम, ऑटोमेशन सिस्टम आदि।
14.3	सीआरएम (एचडीजीएल) (बाउंड्री लिमिट: टेम्पर मिल और टेंशन लेवलर सहित एचडीजीएल में एंट्री से एक्जिट तक)	60%	वेल्डिंग मशीन, रेडिएंट ट्यूब फर्नेस, जेट कूलिंग सिस्टम, इंडक्शन हीटिंग के साथ कोटिंग पॉट, पॉट रोल, एयर नाइफ वाइपिंग सिस्टम, टेंशन लेवलर, विड्थ गॉज, थिकनेस गेज, कोटिंग मोटाई गॉज, लोड सेल, रोल फोर्स सिलेंडर, मिल स्टैंड मोटर्स और मिल स्टैंड ड्राइव सिस्टम, ऑटोमेशन सिस्टम, आदि।
14.4	सीआरएम (एसपीएम) (बाउंड्री लिमिट: एसपीएम में एंट्री से एक्जिट तक)	50%	मिल स्टैंड, बैकअप रोल, एंटीफ्रिक्शन बीयरिंग, ऑयल फिल्म बीयरिंग, रोल चॉक्स, रोल फोर्स सिलेंडर, मिल स्पिंडल, इलेक्ट्रोस्टैटिक ऑइलर, काँइल मार्किंग सिस्टम, लोड सेल, थिकनेस गॉज, मिल स्टैंड मोटर्स और मिल स्टैंड एमवी ड्राइव सिस्टम, ऑटोमेशन सिस्टम, आदि।
14.5	सीआरएम (बेल एनीलिंग फर्नेस) (बाउंड्री लिमिट: फर्नेस बेस से पोस्ट कूलिंग उपस्कर तक)	55%	फर्नेस, स्वचालन प्रणाली, आदि।
14.6	सीआरएम (कलर कोटिंग लाइन) (बाउंड्री लिमिट: सीसीएल में एंट्री से	80%	कोटर, कोटिंग थिकनेस गेज, डिजिटल प्रिंटर, टेंशन लेवलर, स्वचालन आदि।

	एक्जिट तक)		
14.7	टीएससीडीआर (थिन स्लैब कास्टिंग डायरेक्ट रोलिंग) (बाउंड्री लिमिट: टूरेट से क्वाइल फिनिशिंग और पैकेजिंग एरिया)	50%	• सहायक उपकरणों सहित संपूर्ण लेडल स्लैग डिटेक्शन सिस्टम • कॉपर ट्यूब और प्लेट, मोल्ड ऑसिलेशन सिलेंडर। • रोटरी यूनियन। • सहायक उपकरणों सहित निरंतर तापमान मापने की प्रणाली। • पेंडुलम शीयर कटिंग मशीन। • सेगमेंट्स असेंबली • सहायक उपकरणों सहित रोल गैप चेकर कंप्लीट • सहायक उपकरणों सहित इलेक्ट्रोमैग्नेटिक स्टिरर (इएनएस)/इलेक्ट्रोमैग्नेटिक ब्रेकिंग (इएमबीआर) सिस्टम • टनल फर्नेस बर्नर • रफिंग और फिनिशिंग मिल स्टैंड, वर्क रोल और बैकअप रोल, एंटीफ्रिक्शन बेयरिंग, ऑयल फिल्म बेयरिंग, रोल चॉक्स, रोल फोर्स सिलेंडर, मिल स्पिंडल, मिल स्टैंड एमवी ड्राइव और मोटर, ऑटोमेशन सिस्टम, लैमिनार/पावर कूलिंग कंपोनेंट्स, हाइड्रोलिक क्वाइलर। प्रोफाइल गेज, थिकनेस गेज, विड्थ गेज। • नोजल • ग्रीस सिस्टम और सहायक उपकरण • हाइड्रोलिक सिस्टम और सहायक उपकरण • गियरबॉक्स • आरओटी रोल असेंबली • रोल असेंबली (स्लीव, शॉफ्ट, रोल) • लेडल टरेट और सहायक उपकरण (स्लीव बेयरिंग, डिस्क कपलिंग, गियरबॉक्स, हाइड्रोलिक क्लच और हाइड्रोलिक सिलेंडर) • मोल्ड ब्रेकआउट प्रिडिक्शन सिस्टम • ऑटो मोल्ड लेवल कंट्रोल न्यूक्लियोनिक गेज • मोल्ड पाउडर फीडिंग सिस्टम • सहायक उपकरणों सहित सीएनसी मोल्ड मशीनिंग सिस्टम • टंडिश और टरेट वजन प्रणाली

			• टनल फर्नेस रिफ़ैक्टरी रोल। • टनल फर्नेस शटल ड्राइव सिस्टम और गैस पहुंचाने की प्रणाली। • बैकअप रोल हाइड्रोस्टैटिक लुब्रिकेशन सिस्टम • रोल बाइट लुब्रिकेशन सिस्टम • सहायक उपकरणों सहित इन-फर्नेस कैमरा • क्रॉप शीयर • डेस्कलर सिस्टम और घटक। • कॉइल मार्किंग मशीन • ऑनलाइन कॉइल वजन प्रणाली • कट टू लेंथ स्टेकर सिस्टम • रोल शॉप (सीएनसी कॉम्बी ग्राइंडर, सीएनसी रोल ग्राइंडर, सीएनसी नाइफ ग्राइंडर, सीएनसी टर्निंग मशीन, लेथ मशीन) • क्वाइल स्ट्रैपिंग मशीन • डाउन कोइलर सिस्टम • मिल मापने की प्रणाली और सेंसर (ऑटोमैटिक गेज कंट्रोल (एजीसी) सेंसर (रोल फोर्स, गैप, दबाव) • अपने सेंसर सहित लूपर कंट्रोल सिस्टम • कंडीशन आधारित निगरानी प्रणाली और उसके सेंसर • क्वाइल शटल कार और पैलेट कन्वेइंग सिस्टम। • क्रेन कॉइल टोंग। • आरओ और यूएफ मेम्ब्रेन • सेल्फ-क्लीनिंग फिल्टर
14.8	प्लेट मिल के लिए नॉर्मलाइज़िंग फैसिलिटी (बाउंड्री लिमिट: नॉर्मलाइज़िंग फर्नेस में एंट्री से तैयार प्लेट्स के डिस्पैच तक)	50%	• फर्नेस बर्नर, फर्नेस हर्थ रोलर्स, लेवलर, लोड सेल, ऑटोमेशन
14.9	एसएसएम (सिलिकॉन स्टील मिल) (बाउंड्री लिमिट : पिकलिंग लाइन एंट्री से एसएसएम के डिस्पैच तक)	50%	• मिल स्टैंड, वर्क रोल और बैकअप रोल, एंटीफ्रिक्शन बीयरिंग, ऑयल फिल्म बीयरिंग, रोल चॉक्स, रोल फोर्स सिलेंडर, मिल स्पिंडल, मिल स्टैंड एमवी ड्राइव सिस्टम और मोटर्स, ऑटोमेशन सिस्टम, एनीलिंग फर्नेस, डीकार्बराइज़िंग लाइन, इलेक्ट्रिकल स्टील परीक्षण इकाईयां (उदाहरण के लिए फिशर

			स्कोप मोटाई मापने वाला उपकरण, फ्रैंकलिन इंसुलेशन रेजिस्टिविटी टेस्टर, चुंबकीय कंसोल, स्टैकिंग फैक्टर टेस्टर)।
14.10	सीआरएम (क्लस्टर मिल स्टैंड) सेंडज़िमिर मिल (बाउंड्री लिमिट : सेंडज़िमिर मिल में एंट्री से एग्जिट तक)	50%	सेंडज़िमिर मिल स्टैंड, वर्क रोल और बैकअप रोल, एंटीफ्रिक्शन बेयरिंग, ऑयल फिल्म बेयरिंग, रोल चॉक्स, रोल फोर्स सिलेंडर, मिल स्पिंडल, मिल स्टैंड एमवी ड्राइव सिस्टम और मोटर्स, ऑटोमेशन सिस्टम
14.11	एचआरएम (स्टेकेल मिल) (बाउंड्री लिमिट : कॉइलर फर्नेस एंट्री से स्टेकेल मिल तक और कॉइलर फर्नेस एग्जिट तक)	40%	स्टेकेल मिल स्टैंड, हीटेड कॉइलर, वर्क रोल और बैकअप रोल, एंटीफ्रिक्शन बेयरिंग, ऑयल फिल्म बेयरिंग, रोल चॉक, रोल फोर्स सिलेंडर, मिल स्पिंडल, मिल स्टैंड एमवी ड्राइव सिस्टम और मोटर्स, ऑटोमेशन सिस्टम
15	लॉग प्रोडक्ट मिल्स		
15.1	बार मिल/डब्ल्यू/एमएम/एलएसएम (बाउंड्री लिमिट : फर्नेस एंट्री से डिस्पैच तक)	75%	फास्ट फिनिशिंग ब्लॉक, रोल टर्निंग लेथ, प्रोफाइल गेज, ऑटोमेशन सिस्टम, आदि
15.2	रेल मिल/हेवी स्ट्रकचरल मिल (बाउंड्री लिमिट: मटीरियल हैंडलिंग को छोड़कर फर्नेस एंट्री से रेल वेल्डिंग संयंत्र एग्जिट तक)	45%	- मिल स्टैंड, मिल मोटर और ड्राइव सिस्टम, हीट ट्रीटमेंट इकाई, स्ट्रेटनिंग मशीन, - एनडीटी इकाईयां, वेल्डिंग मशीन, प्रोफाइल गेज, हॉट साँ, कोल्ड साँ, हॉट मार्किंग मशीन, रोल टर्निंग लेथ, साँ ग्राइंडिंग मशीन, ऑटोमेशन सिस्टम, आदि।
15.3	ईआरडब्ल्यूपीपी (इलेक्ट्रिकल रेजिस्टेंस वेल्डेड पाइप संयंत्र) (बाउंड्री लिमिट: स्ट्रिप फीडिंग से फिनिशिंग इकाईयां और ईआरडब्ल्यूपीपी के डिस्पैच तक)	50%	प्री-फॉर्मिंग यूनिट, ब्रेक-डाउन स्टैंड, एज बैंडर, यूनिवर्सल केज, फिनिशिंग पास (मल्टीपल स्टैंड), पाइप गाइड, हाई फ्रीक्वेंसी वेल्डिंग मशीन, हाई पावर इलेक्ट्रिक इंडक्टर, हाइड्रो टेस्टिंग, अल्ट्रासोनिक मशीन
15.4	एसडब्ल्यूपीपी (सर्पिल वेल्डेड पाइप संयंत्र) (बाउंड्री लिमिट: पाइप बनाने से फिनिशिंग इकाईयां और एसडब्ल्यूपीपी के डिस्पैच तक)	50%	सबमर्ज्ड आर्क वेल्डिंग, आउटसाइड वेल्डिंग (स्केलप जॉइंट), एक्स- रे स्टेशन, हाइड्रो टेस्टिंग, बेवलिंग मशीन, अल्ट्रासोनिक मशीन, एंड रेडियोग्राफ स्टेशन

16	व्हील संयंत्र		
16.1	व्हील संयंत्र (राउंड/इनगॉट की रिसिप्ट से लेकर तैयार व्हील तक)	30%	सर्कुलर साँ, फोर्जिंग प्रेस, व्हील रोलिंग मिल, व्हील डिशिंग प्रेस, व्हील स्टैम्पिंग मशीन, रिम स्प्रेडिंग मशीन, मोबाइल चार्जर, (हैंडलिंग रोबोट), मशीनिंग इकाईयां, टेस्टिंग इकाईयां, ऑटोमेशन सिस्टम आदि
16.2	रेलवे व्हील के लिए हीट ट्रीटमेंट इकाईयां (बाउंड्री लिमिट: हॉट डायमेंशन मेज़रमेंट से ब्लैक व्हील स्टोरेज तक का एग्जिट)	40%	फर्नेस बर्नर, हर्थ रोलर्स, ऑटोमैटिक व्हील हैंडलिंग और क्वेंचिंग मशीन
16.3	व्हील और रेल के लिए नॉन डेस्ट्रक्टिव टेस्टिंग (एनडीटी) इकाईयां (बाउंड्री लिमिट: एनडीटी इकाईयां के एंट्री और एग्जिट)	30%	हार्डनेस टेस्टिंग मशीन, अल्ट्रासोनिक टेस्टिंग मशीन, मैग्नेटिक पार्टिकल इंस्पेक्शन मशीन, एडी करंट टेस्टिंग मशीन
16.4	रोलिंग मिल स्टैंड के लिए फोर्ज रोल विनिर्माण की इकाईयां (बाउंड्री लिमिट: फोर्ज ब्लैक रोल एंट्री से फिनिश रोल के डिस्पैच तक)	30%	फोर्जिंग प्रेस, मैनिपुलेटर्स, रोल हार्डनिंग मशीन, क्रायोजेनिक ट्रीटमेंट फैसिलिटी, टेम्परिंग फर्नेस, रोल ग्राइंडर, रोल टर्निंग लेथ, हार्डनेस टेस्टिंग मशीन, अल्ट्रासोनिक टेस्टिंग मशीन
16.5	आरजीबीएस/रोल शॉप	50%	- सीएनसी वर्क रोल ग्राइंडर/ सीएनसी कॉम्बी ग्राइंडर, सीएनसी रोल टर्निंग लेथ, - रोल के लिए इलेक्ट्रिक डिस्चार्ज टेक्सचरिंग (ईडीटी) और इलेक्ट्रिक डिस्चार्ज मशीनिंग (ईडीएम) की इकाईयां
17	रिफ्रेक्टरी ब्रिक (कच्चे माल की प्राप्ति से लेकर तैयार ब्रिक तक)	50%	हाइड्रोलिक प्रेस
18	इलेक्ट्रिकल (विद्युत गुणवत्ता प्रणाली)	30%	- एमवीस्टेटकॉम (स्टैटिक सिंक्रोनस कंपेंसेटर) प्रणाली
अन्य सहायक और उपयोगिता वाले उपस्कर			
19	कैल्सीनेशन संयंत्र (कैल्साइन्ड लाइम और डोलो)		- फायरिंग सिस्टम, शाफ्ट लेवल इंडिकेटर, ऑटोमेशन सिस्टम - वीएफडी और सॉफ्ट स्टार्टर कार्ड। - ड्राइविंग एयर ब्लोअर, डीडस्टिंग ड्राफ्ट फैन,

		कूलिंग एयर फैन, लाइम कूलिंग फैन, वेस्ट गैस फैन, गैस बूस्टर फैन असेंबली हाइड्रॉलिक सिलेंडर, हाइड्रॉलिक मोटर्स, हाइड्रॉलिक स्टेशन।
20	इलेक्ट्रिक मोटर चालित कोल्ड ब्लास्ट ब्लोअर (एक्सिसयल/ एक्सिसयल लास्ट स्टेज रेडियल के साथ)	- एक्सिसयल / एक्सिसयल लास्ट स्टेज रेडियल ब्लोअर के साथ - ड्राइव सिस्टम के साथ मोटर - ब्लो - ऑफ वाल्व - ब्लोअर नॉन - रिटर्न वाल्व - नियंत्रण और इंस्ट्रुमेंटेशन आइटम
21	स्टीम टर्बाइन चालित कोल्ड ब्लास्ट ब्लोअर (एक्सिसयल/एक्सिसयल लास्ट स्टेज रेडियल के साथ)	- एक्सिसयल / एक्सिसयल लास्ट स्टेज रेडियल ब्लोअर के साथ - ब्लो - ऑफ वाल्व - ब्लोअर नॉन - रिटर्न वाल्व - कंट्रोल एंड इंस्ट्रुमेंटेशन आइटम
22	डीजल इंजन चालित कोल्ड ब्लास्ट ब्लोअर (एक्सिसयल/एक्सिसयल लास्ट स्टेज रेडियल रेडियल के साथ)	- एक्सिसयल/एक्सिसयल लास्ट स्टेज रेडियल ब्लोअर के साथ / रेडियल ब्लोअर और सिस्टम - डीजल इंजन - ब्लो-ऑफ वाल्व - ब्लोअर नॉन - रिटर्न वाल्व - कंट्रोल एंड इंस्ट्रुमेंटेशन आइटम
23	गैस फायरइ/हीट रिकवरी बॉयलर	- विशेष ग्रेड प्लेट्स और ट्यूब्स - फ्लेम स्कैनर - इंस्ट्रुमेंटेशन एंड कंट्रोल
24	स्टीम टरबाइन (एक्सट्रेशन/बीपीटीजी)	- स्पेशल ग्रेड ब्लेड सामग्री - गवर्निंग सिस्टम - टर्बो पर्यवेक्षी प्रणाली - इंस्ट्रुमेंटेशन एंड कंट्रोल
25	गैस होल्डर	- गैसहोल्डर सील, सीलेंट। - फिटिंग के साथ लेवल वेट रोप - वी.आर.वाल्व गैस्केट - डबल/ट्रिपल मेम्ब्रेन सिस्टम के लिए स्पेशल मेम्ब्रेन - हाईड्रोलिक
26	हाई प्रेशर गैस बूस्टर (आउटलेट प्रेशर > 2000 एमएम डब्ल्यूसी)	- गैस बूस्टर जिसमें कंट्रोल और बाईपास वाल्व शामिल हैं - पिस्टन रिंग्स - कंसेंट्रेट रिंग टाईप वाल्व (एसएस)

27	प्रदूषण नियंत्रण प्रणालियाँ	• टीआर सेट • कंट्रोलर्स • इंसुलेटरर्स • ईएसपी इलेक्ट्रिकल कंपोनेंट • कंट्रोल एंड इंस्ट्रूमेंटेशन आइटम
28	जल एवं अपशिष्ट उपचार प्रणाली	• मेंब्रेन • इवेपोरेटर (कंप्रेसर और टाइटेनियम शीट) • एचपी पंप्स • कंट्रोल एंड इंस्ट्रूमेंटेशन आइटम
29	कंप्रेस्ड एयर स्टेशन	• सेंट्रीफ्यूगल कंप्रेसर कोर असेंबली जिसमें इम्पेलर्स, बुल गियर, पिनियन शाफ्ट, बेयरिंग्स, वाइब्रेशन प्रोब्स और लोकल कंट्रोल पैनल शामिल हैं ।
30	हाइड्रोजन संयंत्र	• इलेक्ट्रोलाइज़र इकाई • एचपी कंप्रेसर • कंट्रोल एंड इंस्ट्रूमेंटेशन आइटम
31	पैकेज्ड चिलर्स	• कंप्रेसर • कंट्रोल एंड इंस्ट्रूमेंटेशन आइटम
32	अन्य उपयोगिता वाले क्षेत्र जैसे- एयर कंडीशनिंग और वेंटिलेशन सिस्टम, वीएएम बेस्ड चिलर सिस्टम, फायरफाइटिंग सिस्टम, गैस बूस्टर (डीपी 2000 एमएम डब्ल्यूसी से कम), कूलिंग वॉटर सिस्टम (पंपिंग स्टेशन, फिल्टर, कूलिंग टावर, हीट एक्सचेंजर, आदि), गैस मिक्सिंग स्टेशन, पॉल्यूशन कंट्रोल सिस्टम, इंटर प्लांट पाइपिंग सिस्टम	• आइटम/इक्विपमेंट में सब-कंपोनेंट/पार्ट्स होते हैं जो आयात किए जाते हैं • कंप्रेसर, चिलर, क्रेन एसी यूनिट, एक्पेनशन वाल्व, उपकरण, उच्च तापमान अनुप्रयोग वाले एसी।
33	इलेक्ट्रिक ओवरहेड ट्रैवलिंग क्रेन और गैन्ट्री क्रेन, इलेक्ट्रिक होइस्ट	• बैरल कपलिंग, हेवी ड्यूटी बेयरिंग, क्रेन रेल लुब्रिकेशन, स्लू रिंग बेयरिंग, टॉग्स
34	इंजीनियरिंग शॉप	• सीएनसी लेथ, सीएनसी मिलिंग मशीन
35	पावर जेनरेशन, ट्रांसमिशन और डिस्ट्रीब्यूशन सिस्टम; शॉप इलेक्ट्रिक्स जिसमें पावर और कंट्रोल सिस्टम और उससे जुड़े इलेक्ट्रिकल काम शामिल हैं	विद्युत मंत्रालय की मिनिमम लोकल कंटेंट (एमएससी)% गाइडलाइन के अनुसार

नोट : सभी उपस्कर की अधिप्राप्तिअनुपालन विद्युत मंत्रालय की दिशानिर्देशों के अंतर्गत/ क्लास-I श्रेणी के अनुसार किया जाएगा। ऐसे मामलों में जहाँ उपकरण क्लास-I श्रेणी में शामिल नहीं हैं, या जहाँ उपस्कर की श्रेणीकरण विशिष्टता विद्युत मंत्रालय की/दिशानिर्देशों में स्पष्ट रूप से परिभाषित नहीं है, वहाँ डीपीआईटीटी द्वारा जारी क्लास-I और क्लास-II श्रेणियों से संबंधित प्रावधानों का पालन किया जाएगा।

36	इंस्ट्रुमेंटेशन आइटम/उपस्कर **	डीपीआईटी के दिशानिर्देशों के अनुसार*	• अबोव/अंडर बर्डन जांच प्रणाली • प्रोफाइलोमीटर • बर्डन कैमरा • तुयेरे फिनोमिना डिटेक्शन प्रणाली (टीपीडीएस) • टॉप गैस एनालाइज़र (सीओ, सीओ₂, एच₂, ओ₂, पॉल्यूटेंट्स) • फ्लो जाम स्विच • एलिमेंटल एनालाइज़र • मॉडिस्चर एनालाइज़र(न्यूक्लियोनिक) • सीवी एनालाइज़र • थिकनेस गेज • हॉट मेटल डिटेक्टर • विड्थ गेज • फर्नेस कैमरा • मल्टीफेज प्रोफाइल गेज • मल्टीफंक्शन/शेप गेज • सतह निरीक्षण प्रणाली • लेजर डॉप्लर वेलोसिटी मीटर • ऑप्टिकल बैरियर • हॉट रोलिंग के लिए थर्मल इमेजिंग सिस्टम • ऑटोमैटिक गेज कंट्रोल (एजीसी) सेंसर (रोल फोर्स, गैप, प्रेशर) • ऑनलाइन मैकेनिकल प्रॉपर्टी प्रेडिक्शन सिस्टम (एआई + सेंसर) • ऑयल फिल्म थिकनेस मॉनिटरिंग सिस्टम (कोल्ड रोलिंग) • एक्स-रे या न्यूक्लियोनिक आधारित कोटिंग थिकनेस गेज • मास फ्लो मीटर • हाइड्रिस (मोल्टन स्टील में हाइड्रोजन का पता लगाना) • मोल्ड लेवल मीजरमेंट • ब्रेक-आउट प्रीडीक्शन प्रणाली (बीओपीएस) • इलक्ट्रोमैग्नेटिक ब्रेक (ईएमबीआर) नियंत्रण और सेंसर • लेडल ट्रेकिंग और प्रबंधन प्रणाली • स्लैग डिटेक्शन सिस्टम (एसडीएस)/ स्लैग मॉनिटरिंग सिस्टम • बीओएफ एंडपाइंट डिटेक्शन (लेजर-इंड्रस्ट्र

		ब्रेकडाउन स्पेक्ट्रोस्कोपी-एलआईबीएस) • सब-लांस सिस्टम (टेम्परेचर + ओ₂ + कार्बन + सैंपलिंग) • लैडल रिफ्रेक्टरी वियर मॉनिटरिंग (लेजर/ अल्ट्रासोनिक/इंफ्रारेड) • कंटीन्यूअस एमिशन मॉनिटरिंग सिस्टम (सीईएसएस- एसओx , एनओx, पीएस, सीओ, सीओ₂, ओ₂, एच₂ के लिए इम्पोर्टेड एनालाइज़र) • बीओएफ/ ईएएफ (सीओ, सीओ₂, ओ₂, एच₂ डस्ट) के लिए ऑफ - गैस एनालाइज़र • वॉटर क्वालिटी एनालाइज़र (पीएच, कंडक्टिविटी, ऑयल - इन - वॉटर, टीओसी, सिलिका, बीओडी, सीओडी, टीएसएस, टीडीएस, फिनोल, साइनाइड) • लेजर - आधारित गैस लीक डिटेक्टर (सीएज₄, सीओ, एच₂, एच₂एस) • अक्सोटिक/ अल्ट्रासोनिक रिसाव का पता लगाना • वाइब्रेशन / कंडीशन मॉनिटरिंग सेंसर / एक्सियल शिफ्ट / डिफरेंशियल एक्सपेंशन मॉनिटरिंग सिस्टम • टक्कर रोधी प्रणाली (रडार/लेजर/लिडार) • ओवन पहचान प्रणाली (ओआईएस) • पाइरोमीटर • लोमास विश्लेषक • प्रेशर,टेम्परेचर और इलेक्ट्रोटेक्निकल पैरामीटर्स के लिए मास्टर कैलिब्रेटर • सिंटर संयंत्र में इरिच मिक्सर्स में स्थापित उपकरण और हैंजेल निर्मित लुब्रिकेशन प्रणालियाँ • टर्बाइन और टर्बो ब्लोअर के लिए गवर्नर सिस्टम • बाई-प्रोडक्ट संयंत्र के लिए टेल गैस एनालाइज़र • कोक बकेट लिफ्टर और रिवर्सिंग विंच में प्रयोग में आने वाले फोर्स सेंसर • एनकोडर, • हाइड्रोलिक वाल्व नियंत्रक • बीएलटी में स्थापित उपकरण (डिस्ट स्विच,

			सोनिक सेंसर, एनकोडर,आदि) • फ्लेम सेंसर/स्कैनर
37	ऑटोमेशन आइटम/उपस्कर **	डीपीआईटीटी के दिशानिर्देशों के अनुसार *	
38	वॉयस कम्युनिकेशन सिस्टम **	डीपीआईटीटी के दिशानिर्देशों के अनुसार *	
39	फायर डिटेक्शन और अलार्म (एफडीए) प्रणाली **	डीपीआईटीटी के दिशानिर्देशों के अनुसार *	
40	सीसीटीवी प्रणाली **	डीपीआईटीटी के दिशानिर्देशों के अनुसार *	

नोट:

* इंस्ट्रुमेंटेशन, ऑटोमेशन संचार उपस्कर, फायर डिटेक्शन एंड अलार्म (एफडीए) प्रणाली और सीसीटीवी प्रणाली डीपीआईटीटी के साथ-साथ एमईआईटीवाई दिशानिर्देशों के अनुसार क्लास- I और क्लास- II आपूर्तिकर्ता मानदंडों के अनुरूप पूंजीगत वस्तुओं के लिए घरेलू सामग्री आवश्यकताओं का अनुपालन करेगी।

** अत्यधिक विशिष्ट उपस्कर, कंपोनेंट्स, और ज़रूरी पार्ट्स जैसे इंस्ट्रुमेंटेशन, ऑटोमेशन, कम्युनिकेशन सिस्टम, फायर डिटेक्शन और अलार्म (एफडीए) सिस्टम, और सीसीटीवी सिस्टम के लिए सेमीकंडक्टर चिप्स अभी वैश्विक प्रौद्योगिकी वाली अग्रणी कंपनियों से लिए जा रहे हैं। हालांकि, पूरे सिस्टम असेंबली, इंटीग्रेशन, और मैनुफैक्चरिंग का कार्य भारत में ही किया जा रहा है, और शेष कंपोनेंट्स स्वदेशी स्रोतों से अधिप्राप्त किये जा रहे हैं।

परिशिष्ट-ग**लौह एवं इस्पात क्षेत्र में स्वदेशी प्रौद्योगिकियों को बढ़ावा देना****1) उद्देश्य:**

इस्पात विनिर्माण के सभी चरणों में स्वदेशी प्रौद्योगिकियों का अंगीकरण, विकास और विस्तार को प्रोत्साहित करके भारतीय लौह एवं इस्पात क्षेत्र में आत्मनिर्भरता को बढ़ावा देना।

2) विषय क्षेत्र:

यह नीति इस्पात बनाने या इस्पात विनिर्माण संयंत्र स्थापित करने वाले केन्द्रीय सार्वजनिक क्षेत्र के उद्यमों पर लागू होती है।

3) नीति निदेश:

3.1 ऐसे मामले जहां प्रौद्योगिकी और पूर्व इंजीनियरिंग एवं आपूर्ति के लिए प्रमाण उपलब्ध हैं, लेकिन वर्तमान क्षमता आवश्यकता से मेल नहीं खाते हैं, ऐसे मामलों में स्वदेशी प्रौद्योगिकी प्रदाताओं के लिए निम्नलिखित शर्तें लागू होंगी:

3.1.1 उत्पादन क्षमता प्रस्तावित संयंत्र की क्षमता का 30% होगी

3.1.2 वेंडर्स के साथ स्पष्ट साझेदारी की प्रामाणिक उपलब्धता

3.1.3 प्रस्तावित संयंत्र की क्षमता के कम से कम 75% के लिए परियोजनाओं की डिटेल इंजीनियरिंग कार्यों का अनुभव

3.2 ऐसे मामले जहां प्रौद्योगिकी उपलब्ध है, लेकिन अर्लियर सप्लाइ के लिए कोई संदर्भ उपलब्ध नहीं है, ऐसे मामलों में स्वदेशी प्रौद्योगिकी प्रदाताओं के लिए निम्नलिखित शर्तें लागू होंगी:

3.2.1 स्वदेशी प्रौद्योगिकी आपूर्तिकर्ता ने प्रस्तावित परियोजना की कम से कम 75% विशेषताओं से मेल खाते हुए परियोजनाओं की डिटेल इंजीनियरिंग कार्य किया हो

3.2.2 स्वदेशी प्रौद्योगिकी आपूर्तिकर्ता ने प्रस्तावित परियोजना की महत्वपूर्ण विशेषताओं से 100% मेल खाते हुए डिटेल इंजीनियरिंग कार्य किया हो

3.2.3 वेंडर्स के साथ स्पष्ट गठजोड़ की उपलब्धता

3.2.4 प्रौद्योगिकी उपलब्धता के प्रामाणिक साक्ष्य (आईपीआर या अन्य पर्याप्त साक्ष्य)

3.3 ऐसे मामलों में जहाँ कोई भारतीय प्रौद्योगिकी उपलब्ध नहीं है, वहाँ यदि कोई विदेशी प्रौद्योगिकी प्रदाता तीन वर्षों के भीतर भारतीय सीपीएसई (जिसमें अधिप्राप्ति करने वाली इकाई भी शामिल है) को प्रशिक्षण और सहयोग सहित प्रौद्योगिकी हस्तांतरण करने का वचन देता है, तो उसे घरेलू मूल्य संवर्धन के प्रतिशत पर ध्यान दिए बिना माना हुआ श्रेणी-1 आपूर्तिकर्ता (डीमंड क्लास-1 सप्लायर) माना जाएगा। इस स्थिति में, क्रय वरीयता उस विदेशी प्रौद्योगिकी प्रदाता को दी जाएगी, जैसा कि डीपीआईआईटी के सार्वजनिक अधिप्राप्ति (मेक इन इंडिया को प्राथमिकता) आदेश में समय-समय पर संशोधित किया गया है।

4) कार्यान्वयन निरीक्षण:

इस्पात मंत्रालय द्वारा गठित स्थायी समिति कार्यान्वयन की निगरानी करेगी, विवादों का समाधान करेगी तथा पात्रता एवं प्रोत्साहन मानदंडों को समय-समय पर अद्यतन करेगी।

प्रपत्र-1

मेल्ट एंड पोर आवश्यकताओं (परिशिष्ट- क*) और/या घरेलू मूल्य वर्धन आवश्यकताओं (परिशिष्ट-क और

परिशिष्ट-ख*) के अनुपालन के लिए स्व-प्रमाणन का हलफनामा

*परिशिष्ट-ख पूंजीगत वस्तुओं के लिए, नीति के तहत अनिवार्य रूप से वैधानिक लेखापरीक्षक/लागत लेखापरीक्षक/सीए प्रमाणपत्र के साथ यह शपथपत्र अवश्य संलग्न होना चाहिए।

मैं, _____, निवास _____, मेसर्स _____

_____ के अधिकृत हस्ताक्षरकर्ता होने के नाते _____ एतद्वारा पूर्णतया प्रतिज्ञा और घोषणा करता/करती हूँ;

1. मैंने दिनांक _____ को जारी अधिसूचना संख्या _____ घरेलू स्तर पर विनिर्मित लौह एवं इस्पात उत्पाद (डीएमआई एवं एसपी) नीति, 2025, को पढ़ और समझ लिया है। मैं उक्त नीति और उस निविदा की सभी शर्तों और नियमों का पालन करने के लिए सहमत हूँ जिसके संबंध में यह शपथपत्र प्रस्तुत किया गया है।

2. यह शपथपत्र निम्नलिखित लौह एवं इस्पात उत्पाद/पूंजीगत वस्तुओं से संबंधित है:

उत्पाद का नाम: _____

एचएस कोड: _____

परिशिष्ट वर्गीकरण: परिशिष्ट-क/परिशिष्ट-ख (जैसा लागू हो, चुनें)

प्रापण एजेंसी: _____

3. मेल्ट एंड पोर - यह केवल परिशिष्ट-क में उल्लिखित उन वस्तुओं पर लागू होता है जिनमें मेल्ट एंड पोर संबंधी शर्त होती है।

मैं एतद्वारा घोषणा करता/करती हूँ कि उपरोक्त उत्पाद भारत में मेल्ट एंड पोर की आवश्यकताओं जैसा कि विशेष रूप से परिशिष्ट- क में अधिसूचित किया है, को पूरा करते हैं। विशेष रूप से:

भारत में ही इस्पात को मेल्ट और पोर किया गया था।

पहला सॉलिड शेप (स्लैब/बिलेट/इनगॉट/अन्य) निम्नलिखित स्थान(स्थानों) पर उत्पादित किया गया था:

इस्पात निर्माण इकाई: _____ स्थान: _____ हीट रिकॉर्ड: _____ बैच विवरण: _____

मैं प्रापण एजेंसी द्वारा आवश्यकता पड़ने पर इस घोषणा को प्रमाणित करने के लिए मिल परीक्षण प्रमाण पत्र, हीट रिकॉर्ड और कोई अन्य दस्तावेजी प्रमाण प्रस्तुत करने का वचन देता हूँ।

(यदि लागू न हो, तो "लागू नहीं" लिखें।)

4. घरेलू मूल्य संवर्धन - परिशिष्ट-क डीवीए मदों और परिशिष्ट-ख पूंजीगत वस्तुओं पर लागू:

मैं एतद्वारा घोषणा करता/करती हूँ कि उत्पाद(उत्पादों) का घरेलू मूल्यवर्धन (डीवीए)% _____ है। डीवीए की गणना डीपीआईआईटी दिशानिर्देशों और डीएमआईएंडएसपी नीति, 2025 में निर्दिष्ट फार्मुला के अनुसार की गई है।

4क. परिशिष्ट- ख पूंजीगत वस्तुओं (अनिवार्य) के लिए: वैधानिक लेखापरीक्षक/लागत लेखा परीक्षक/चार्टर्ड लेखाकार द्वारा जारी प्रमाण पत्र संलग्न है, जो नीति के अनुसार पूंजीगत वस्तु पैकेज के डीवीए की पुष्टि करता है।

(यदि यह केवल परिशिष्ट-क का आइटम है, तो इस खंड को रद्द कर दें।)

5. मैं पुष्टि करता/करती हूँ कि: दी गई सभी जानकारी सत्य और सही है। सभी इनपुट स्टील की लागत, आयातित सामग्री और घरेलू सामग्री की गणना सत्यापित की जा चुकी है। सभी उत्पादन, खरीद और मूल्य निर्धारण संबंधी रिकॉर्ड जांच के लिए उपलब्ध हैं।

यदि कोई भी जानकारी गलत या भ्रामक पाई जाती है: प्रापण एजेंसी अपने मानदंडों के अनुसार मुझे/मेरी फर्म को सरकारी निविदाओं से अयोग्य घोषित कर सकती है। मैं नीति और निविदा शर्तों के अनुसार, ईएमडी की जब्ती सहित सभी मूल्यांकन लागतों और जुर्माने का भुगतान करने के लिए सहमत हूँ।

6. मैं संबंधित रिकॉर्ड को बनाए रखने और उन्हें किसी भी वैधानिक प्राधिकारी को उपलब्ध कराने का वचन देता हूँ।

7. घोषणा: मैं एतद्वारा घोषणा करता/करती हूँ कि ऊपर दिए गए कथन मेरी जानकारी और विश्वास के अनुसार सत्य है। मैं समझता/समझती हूँ कि किसी भी प्रकार की गलत जानकारी देने पर डीएमआईएंडएसपी नीति, लागू कानूनों और निविदा शर्तों के तहत दंड का प्रावधान होगा।

(स्थान एवं दिनांक)

मैसर्स _____

के लिए और उनकी ओर से

(अधिकृत हस्ताक्षरकर्ता)

[फा. सं. 8(2)/2023-आईडी-1]

अभिजीत नरेंद्र, संयुक्त सचिव

MINISTRY OF STEEL**NOTIFICATION**

New Delhi, the 17th December, 2025

G.S.R. 904(E).— In supersession of earlier Domestically Manufactured Iron & Steel Products Policy, the revised Domestically Manufactured Iron & Steel Products Policy-2025 for providing preference to Domestically Manufactured Iron & Steel Products in Government procurement is hereby published for general information.

**POLICY FOR PROVIDING PREFERENCE TO DOMESTICALLY
MANUFACTURED IRON & STEEL PRODUCTS IN GOVERNMENT
PROCUREMENT- REVISED, 2025**

1. Background

- 1.1. This policy provides preference for Domestically Manufactured Iron and Steel Products (DMI&SP) in Government procurement.
- 1.2. The policy applies to procurement of iron & steel products notified in Appendix A, procurement of capital goods listed in Appendix B and technology from indigenous technology suppliers in Appendix C.

2. Definitions

- 2.1. **Bidder** may be a domestic/foreign manufacturer of iron & steel or their selling agents/ authorized distributors/authorized dealers/ authorized supply house or any other company engaged in the bidding of projects funded by Government agencies.
- 2.2. **Domestically Manufactured Iron & Steel Products** are those iron and steel products that are manufactured by entities that are registered and established in India, including in Special Economic Zones (SEZs).
- 2.3. **Domestic Manufacturer** is a manufacturer conforming to Section 2(72) of the Central Goods and Services Tax (CGST) Act, 2017.
- 2.4. **Domestic value addition** means the amount of value added in India which shall be the total value of the item to be 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 of the item to be procured, in percent. The 'domestic value addition' definition shall be in line with the DPIIT guidelines and shall be suitably amended in case of any changes by DPIIT in the future. For the purpose of this policy document, domestic value addition and local content have been used interchangeably.

% Domestic value addition =

{Total value of the item to be
procured (excluding net domestic
indirect taxes) – The value of

imported content in the item
(including all customs duties)}

..... X 100%

{Total value of the item to be procured}

- 2.5. **Finished Steel** means flat and long products, which can be subsequently processed into manufactured items.
 - 2.6. **Government** for the purpose of the Policy means Government of India.
 - 2.7. **Government agencies** include Government PSUs, Societies, Trusts, and Statutory bodies set up by the Government of India.
 - 2.8. **Indigenous Technology:** A technology shall be deemed to be Indigenous technology if, at least 51 % of the entity's equity is held by Indian residents and the IPR is owned or co-owned by an Indian entity or licensed exclusively to them and the core engineering R&D, and project execution capabilities reside in India.
 - 2.9. **L1** means the lowest tender, or the lowest bid or the lowest quotation received in a tender, bidding process, or other procurement solicitation as adjudged in the evaluation process as per the tender or other procurement solicitation.
 - 2.10. **MoS** means Ministry of Steel, Government of India.
 - 2.11. **Margin of purchase preference** means the maximum extent to which the price quoted by a domestic supplier may be above L1 for the purpose of purchase preference. In the case of DMI&SP policy, the margin of purchase preference shall be 20 % for items in Appendix B.
 - 2.12. **Melt & Pour** is defined as the steel that has been produced in a steel-making furnace and poured into its first solid shape. The location where this process takes place is called the country of melt and pour (COM). The COM is the original location where crude steel is first produced in a liquid state and poured into its first solid shape. The country of melt and pour (COM) should be India. The first solid shape can be a semi-finished product, like a slab, billet, ingot, or a finished steel mill product.
 - 2.13. **Net Selling Price** means the invoiced price excluding net domestic taxes and duties.
 - 2.14. **Semi-Finished Steel** means Ingots, billets, blooms, and slabs, which can be subsequently processed into finished steel.
3. **Exclusions**
 - 3.1. Waivers may be granted by the Ministry of Steel to all such Government procurements subject to the below conditions:
 - 3.1.1. Where specific grades of steel are not manufactured in the country, or
 - 3.1.2. Where the quantities as per the demand of the project cannot be met through domestic sources.

- 3.2. Exemption requests shall be submitted to the Standing Committee along with sufficient proof of unavailability of iron & steel products domestically.

4. **Standing Committee**

- 4.1. A Standing Committee chaired by the Secretary (Steel), shall oversee the implementation of the policy.
- 4.2. The Committee shall comprise of experts drawn from Industry/Industry Association/Government Institution or Body/Ministry of Steel. The said Committee in MoS shall have the mandate for the following:
 - 4.2.1. Monitor the implementation of the policy.
 - 4.2.2. Review and notify the list of Iron & Steel products, the domestic content requirement criteria and policy directives as mentioned in Appendix A, Appendix B and Appendix C.
 - 4.2.3. Issue necessary clarifications for implementation of the policy including grant of exclusions to procuring agencies.
 - 4.2.4. Constitute a grievance redressal committee for preliminary examination of complaints related to implementation of this policy.
 - 4.2.5. Issue directions for suitable action to Ministries/Departments concerned in case of non-compliance with this policy by the procuring agency and advise.
- 4.3. Wherever a procuring entity concludes that an unreasonably high price has been quoted by the sole bidder/manufacturer, the matter may be referred to the Committee. In such cases, the procuring entity would be required to substantiate its case with complete and thorough documentation.
- 4.4. Specifying foreign certifications/unreasonable technical specifications in bid document is a restrictive and discriminatory practice against local suppliers. If foreign certification is required to be stipulated because of non-availability of Indian Standards and/or for any other reason, the same shall be done only after written approval of the Committee.

5. **Applicability**

- 5.1. The policy applies to every Ministry or Department of Government and all agencies/entities under their administrative control and to projects funded by these agencies for the purchase of iron & steel products for government projects. All Central Sector Schemes (CS)/Centrally Sponsored Schemes (CSS) for which procurement is made by States and Local Bodies, come within the purview of this Policy if that project/scheme is fully/partly funded by the Government of India.
- 5.2. The policy applies to public sector steel manufacturers and agencies/entities under their administrative control for purchase of capital goods (Appendix-B) for manufacturing iron & steel products.

- 5.3. Appendix-B contains the list of capital goods used in manufacturing iron & steel products which can be imported, and the applicable minimum domestic content requirement for packages.
- 5.4. A purchase preference of 20% is applicable for capital goods used in steel manufacturing. For example, if the lowest bidder (L1) for an importable capital good is a foreign company with a quoted price of Rs.100 crore for the product package, under the policy, procurement preference of 20% will be applicable to a domestic supplier of the same capital good.
- 5.5. Appendix-C contains directives and methodology for steelmaking CPSEs to procure from indigenous technology suppliers.
- 5.6. The policy shall apply to projects and non-projects where the total procurement value of iron and steel products (Appendix-A) in a contract is greater than Rs. 5 lakhs, on itemized basis.
- 5.7. No Global Tender Enquiry (GTE) shall be invited for tenders related to the procurement of iron and steel products (Appendix-A of the DMI&SP Policy). No Global Tender Enquiry (GTE) shall be invited for tenders related to the procurement of Capital Goods for manufacturing iron & steel products (Appendix-B of the DMI&SP Policy) having estimated value up to Rs. 200 crore except with the approval of competent authority as designated by Department of Expenditure.
- 5.8. The policy applies to the purchase of iron & steel products by private agencies for fulfilling an EPC contract and/or any other requirement of a Ministry or Department of Government or their PSUs.

6. Tender procedure for procurement

- 6.1. Procuring agencies shall follow standard government procurement procedures while adhering to the DMI&SP policy.
- 6.2. The tender document, for procurement of both Goods as well as for EPC contracts, should explicitly outline the qualification criteria for adherence to the requirement as mentioned in Appendix A and Appendix B.
- 6.3. All bidders – including manufacturers, selling agents, authorized distributors, authorized dealers, and authorized supply houses – shall submit Form-1 as part of their bid, irrespective of whether they are the manufacturer or otherwise.
- 6.4. Bidders who are selling agents/authorized distributors/authorized dealers/authorized supply houses of the domestic manufacturers of iron & steel products, covered by Appendix-A, are eligible to bid with self-certification on behalf of the domestic manufacturers under the policy, subject to the bidder furnishing an authorization certificate issued by the domestic manufacturer at the time of delivery.

- 6.5. For products covered under Appendix B of the DMI&SP policy, the bidder shall furnish certification issued by 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 suppliers other than companies) declaring that the capital goods to be used in iron & steel industry are domestically manufactured in terms of the domestic value addition prescribed.
- 6.6. If 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 the procuring entities for appropriate reciprocal action.
- 6.7. Entities of countries that have been identified by the Ministry of Steel as not allowing Indian companies to participate in their Government procurement for any item related to the Ministry of Steel shall not be allowed to participate in Government procurement in India for all items related to Ministry of Steel, except for the list of items published by Ministry of Steel permitting their participation.
- 6.8. The stipulation above shall be part of all tenders including those on GeM portal invited by the Central Government procuring entities.
- 6.9. In case restrictive or discriminatory conditions against domestic suppliers are included in bid documents, an inquiry shall be conducted by the Administrative Department undertaking the procurement (including procurement by any entity under its administrative control) to fix responsibility for the same. Thereafter, appropriate action, administrative or otherwise, shall be taken against erring officials of procurement entities under relevant provisions. Intimation on all such action shall be sent to the Standing Committee under the DMI&SP policy.
- 6.10. A supplier 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.
- 6.11. In case, the matter is referred to the Ministry of Steel, the grievance redressal committee set up under the MoS shall dispose of the complaint within 4 weeks of its reference and receipt of all documents from the bidder after taking into consideration, the view of the Government Agency. The bidder shall be required to furnish the necessary documentation in support of domestic value addition claimed in iron & steel products to the grievance redressal committee under MoS within 2 weeks of the reference of the matter.

- 6.12. Procuring agency shall define the penalties, in case of a wrong declaration by the bidder of the prescribed domestic value addition, in the tender document. The penalties may include forfeiting of the EMD, other financial penalties, and blacklisting of such manufacturer/service provider etc., in terms of extant rules.

7. Implementation monitoring by the Ministry of Steel

- 7.1. The policy provisions shall be applicable for 5 years from the date of publication and may further be extended at the discretion of the Ministry of Steel.
- 7.2. MoS shall be the nodal ministry to monitor the implementation of the policy.
- 7.3. Agencies covered under DMI&SP policy shall send declaration on a quarterly basis indicating the extent of compliance to the policy and reasons for non-compliance thereof, during the preceding financial year.

Appendix-A

List of iron and steel products which can only be procured from domestic sources

Sl. No	Iron & Steel Products	HS Code	Condition
1	Flat-rolled products of iron or non-alloy steel, of a width of 600 mm or more, hot rolled, not clad, plated or coated	7208	Melt & Pour
2	Flat-rolled products of iron or non-alloy steel, of a width of 600 mm or more, cold rolled (cold-reduced), not clad, plated or coated	7209	Melt & Pour
3	Flat-rolled products of iron or non-alloy steel, of a width of 600 mm or more, clad, plated or coated	7210	Melt & Pour
4	Flat-rolled products of iron or non-alloy steel, of a width of less than 600 mm, not clad, plated or coated	7211	Melt & Pour
5	Flat-rolled products of iron or non-alloy steel, of a width of less than 600 mm, clad, plated or coated	7212	Melt & Pour
6	Bars and rods, hot-rolled, in irregularly wound coils, of iron or non-alloy steel	7213	Melt & Pour
7	Other bars and rods of iron or non-alloy steel, not further worked than forged, hot rolled, hot-drawn or hot-extruded, but including those twisted after rolling	7214	Melt & Pour
8	Other bars and rods of iron or non-alloy steel	7215	Melt & Pour
9	Angles, shapes and sections of iron or non-alloy steel	7216	Melt & Pour
10	Wire of iron or non-alloy steel	7217	Melt & Pour
11	Flat-rolled products of stainless steel, of a width of 600 mm or more	7219	Melt & Pour
12	Flat-rolled products of stainless steel, of a width of less than 600 mm	7220	Melt & Pour
13	Other bars and rods of stainless steel; angles, shapes and sections of stainless steel	7222	Melt & Pour
14	Wire of other alloy steel	7229	Melt & Pour

15	Rails, railway or tramway track construction material of iron or steel	7302	50% Domestic Value Addition
16	Tubes, pipes and hollow profiles, of cast iron	7303	50% Domestic Value Addition
17	Tubes, pipes and hollow profiles, seamless, of iron (other than cast iron) or steel	7304	50% Domestic Value Addition
18	Other tubes and pipes (for example, welded, riveted or similarly closed), having circular cross-sections, the external diameter of which exceeds 406.4 mm, of iron or steel	7305	50% Domestic Value Addition
19	Other tubes, pipes and hollow profiles (for example, open seam or welded, riveted or similarly closed), of iron or steel	7306	50% Domestic Value Addition
20	Tube or pipe fittings (for example, connectors/couplings, elbow sleeves), of iron or steel	7307	50% Domestic Value Addition
21	Bars and rods, hot-rolled, in irregularly wound coils, of stainless steel	7221	Melt & Pour
22	Wire of stainless steel	7223	Melt & Pour
23	Flat-rolled products of other alloy steel, of a width of 600 mm or more, including electrical steel	7225	Melt & Pour
24	Flat-rolled products of other alloy steel, of a width of less than 600 mm, including electrical steel	7226	Melt & Pour
25	Bars and rods, hot-rolled, in irregularly wound coils, of other alloy steel	7227	Melt & Pour
26	Other bars and rods of other alloy steel; angles, shapes and sections, of other alloy steel; hollow drill bars and rods, of alloy or non-alloy steel	7228	Melt & Pour
27	Sheet piling of iron or steel, whether or not drilled, punched or made from assembled elements; welded angles, shapes and sections, of iron or steel	7301	50% Domestic Value Addition
28	Structures (excluding prefabricated buildings of heading 9406) and parts of structures	7308	50% Domestic Value Addition
29	Reservoirs, tanks, vats and similar containers for any material (other than compressed or liquefied gas), of iron or steel, of a capacity exceeding 300 whether or not lined or heat insulated, but not fitted with mechanical or Thermal equipment	7309	50% Domestic Value Addition
30	Tanks, casks, drums, cans, boxes and similar containers, for any material (other than compressed or liquefied gas), of iron or steel, of a capacity not exceeding 300L, whether or not lined or heat-insulated, but not fitted with mechanical or thermal equipment	7310	50% Domestic Value Addition
31	Containers for compressed or liquefied gas, of iron or steel	7311	50% Domestic Value Addition
32	Stranded wire, ropes, cables, plaited bands, slings and the like, of iron or steel, not electrically insulated	7312	50% Domestic Value Addition
33	Barbed wire of iron or steel; twisted hoop or single flat wire, barbed or not, and loosely twisted double wire, of a kind used for fencing, of iron or steel	7313	50% Domestic Value Addition
34	Grill, netting and fencing, of iron or steel wire; expanded metal of iron or steel	7314	50% Domestic Value Addition
35	Chain and parts thereof, of iron or steel	7315	50% Domestic Value Addition

36	Anchors, grapnels and parts thereof, of iron or steel	7316	50% Domestic Value Addition
37	Articles of iron and steel	7317	50% Domestic Value Addition
38	Articles of iron and steel	7318	50% Domestic Value Addition
39	Articles of iron and steel	7319	50% Domestic Value Addition
40	Springs and leaves for springs, of iron or steel	7320	50% Domestic Value Addition
41	Stoves, ranges, grates, cookers (including those with subsidiary boilers for central heating), barbecues, braziers, gas-rings, plate warmers and similar non-electric domestic appliances, and parts thereof, of iron or steel	7321	50% Domestic Value Addition
42	Radiators for central heating, not electrically heated, and parts thereof, of iron or steel; air heaters and hot air distributors, not electrically heated, incorporating a motor-driven fan or blower, and parts thereof, of iron or steel	7322	50% Domestic Value Addition
43	Tables and similar house hold articles and parts thereof, of iron or steel	7323	50% Domestic Value Addition
44	Sanitary ware and parts thereof, of iron or steel	7324	50% Domestic Value Addition
45	Other cast articles of iron or steel	7325	50% Domestic Value Addition
46	Electrical steel and other articles of iron or steel	7326	50% Domestic Value Addition
47	Railway or tramway passenger coaches, not self-propelled	8605	50% Domestic Value Addition
48	Railway or tramway goods vans and wagons, not self-propelled	8606	50% Domestic Value Addition
49	Parts of railway or tramway locomotives or rolling-stock; such as bogies, bissel-bogies, axles and forged wheels, and parts thereof	8607	50% Domestic Value Addition

Appendix- B**List of Capital Goods (non-exhaustive) which can be imported for Manufacturing Iron & Steel products, and minimum domestic content applicable for the package**

S. No.	Plant /Unit package	Minimum domestic content of Capital Goods (%)	Importable Items
Mining			
1	Equipment for Mining development - Crushing & Screening Plant - Mineral beneficiation (iron ore and coal) plant; (Boundary Limit: from Receiving of ROM at the crusher hopper, comminution, segregation, ore/coal processing up to final product preparation) - Slime Beneficiation - Automatic Loading facilities - Conveyer system	75%	- Wet High Intensity Magnetic Separator / High Gradient Magnetic Separator - Heavy Media Cyclone - Gyratory Crusher - Spiral Concentrator - Online Ash Analyzer - Ball/Rod/AG Mill (Greater than 3.5 m dia)
2	Mining transportation - Slurry Pipelines - Long distance conveying system	30%	- PD Pump - Valves - Specialized/rope/pipe conveyor
3	Other Mining Machinery & Heavy Earth Moving equipment for mines (Boundary Limit: Equipment for drilling, raising, lading, haulage, and mine preparation)	Not Applicable	- Dumper (above 220 tons pay load capacity), Hydraulic Excavators (above 9 Cubic meter bucket capacity) - Blast Hole Drills 10"(Electric/Diesel) - Diesel driven Track Dozer >850 HP Capacity - Diesel Driven Wheel Dozer >500 HP capacity - Diesel driven Front End Wheel Loader >8 Cubic Meter bucket Capacity
4	Pellet Plant Equipment (Boundary Limit – Receiving Ground Hopper for flux & Binder, Belt Conveyor feeding IOF to product pellet belt conveyor)	85%	Pellet car, High Intensive Mixer, Balling Discs, Vertical roller mill, Drive/discharge end Sprocket assembly, curved rail, Slide rails, Single deck roller screen and Double deck roller screen, Induration Machine Drive assembly, Level-2 automation
Iron/steel making			
5	Raw Material Handling System (Boundary Limit – from Wagon Tippler to respective user units)	95%	Barrel Couplings, Heavy Duty Bearings, Crane Rail Lubrication System, Slew Ring Bearings, Tongs (Special), Vibration Isolation System (Spring Damper), Hydraulic motor & hydraulic pump (installed in wagon tippler, side arm charger, stacker cum reclaimer, slew stacker), electronic cards, unbalanced motor, cam limit switch of wagon tippler.
6	Coke Oven Battery (Both top charged & stamp charged) (From Coal bunker to coke discharge bucket)	90%	Springs of the anchorage systems, COG booster, stamping train, bonding press

S. No.	Plant /Unit package	Minimum domestic content of Capital Goods (%)	Importable Items
7	Coke Dry Quenching Plant (From Hot coke receiving bucket to discharge chute of cooling chamber)	90%	• Mill fan & Motor, Special Refractory for Twin Flue of Cooling Chamber.
8	By-Product Plant (From Primary Gas cooler to clean coke oven gas up to the network)	90%	• Exhauster & Motor, burner of the clause kiln, Catalyst, Tail gas analyzer, Palletization unit.
9	Sinter Plant Equipment (Boundary Limit – Receiving Bin for Raw Material to Vibro-Feeder below Product Sinter Bin)	75%	• Highly Intensive Mixer & Granulator Unit, Pallet cars, Drive Sprocket, Main Drive with Gear Box of sinter machine, slide rail & curved rail, Hot Sinter breaker and Grizzly, Annular Dip Rail Cooler, LCI Drive system for Sinter Plant Exhauster application. • Ignition Furnace Spare parts (Refractory/Control System/Burner Assembly) • Exhauster (Waste Gas Fan) and System Spare Parts
10	Blast Furnace Equipment Boundary Limit: Input • Raw material- Top of bunkers of respective material • Cold Blast- Inlet of the snort valve • Industrial water- BF pump house Output • Hot Metal- Filled in the torpedo ladle • Granulated Slag - to the granulated slag yard	70%	• Bell less top gear box, upper seal device covering upper material gate and upper seal valve, lower seal device covering lower material gate and lower seal valve, Bleeder valve, Tilting Rocker, Wear liners, Goggle Valve, Equalizing & Relief Valve, Chute Rotation Motors, Distribution chute, Feeder spout, Chutes & Funnels etc. • Hearth Refractory (carbon blocks) • Top Recovery Turbine system (TRT) • Cu-staves • SGI Staves • Cast house equipment (Mud gun, Drilling machine and main trough Manipulator) • Probes, Profilometer & Stock level indicator (radar type) • Gas cleaning plant (AGS system) • Stove system – ceramic burner & technological valve • Waste Heat Recovery system • Turbo blowers • Ball Mill • PCI Injection System • Level-II automation • Copper plate coolers • Tuyere cooler • Stove technological valves • Dewatering Wheel of SGP • Torpedo Ladle Car chain assembly • Dome filled dump Valves • Tuyere stock assembly
11	Gas based Direct Reduction Plant Equipment (Boundary Limit: Receipt of raw	50%	• Reactor charging system • Reactor • Reactor discharging system

S. No.	Plant /Unit package	Minimum domestic content of Capital Goods (%)	Importable Items
	material at the top of the DRI reactor & discharge of hot DRI to EAF)		• Pneumatic transfer to EAF • Discharge route to briquetting system • Briquetting feeding system • Briquetting system • Reduction gas circuit • CO2 removal unit • Process gas heater • Reformer system • Heat Recovery System • Process Gas Compressors • Blowers • Seal Gas System • Flue Gas Fan/ Hot Fan • Process valves • Critical bellows • Critical refractories • Natural Gas pre-treatment system • Level-II automation
12	Oxygen Plant 700 tpd & Above (Boundary limit: Water, Power at oxygen plant boundary)	30%	• Main Air Compressor • Booster Air Compressor • Expansion Turbine • Reboiler • Cryogenic Pumps • Heat exchange elements of • ASU • Pressure Column • Main Condenser, Low Pressure Column • Crude Argon Column, Pure Argon Column and Condenser with Condenser Block • Main Heat Exchangers, Pure Argon Evaporator Sub-cooler • LOX-IC-Process Pump • LIN-IC-Process Pumps • LAR-Transfer -Process Pumps • Dense Fluid Expander • Booster Heat Exchangers • Molecular Sieves • Switching Valves for PPU • Critical Safety valves • Specialized valves • Control Valves • Cold box • Control Valves GOX-Product • Flow Measuring devices of Cold box • Expander - Brake Generator, Frequency Converters
13	Steel Processing		
13.1	Hot Metal De- De-Sulphurization Station (HMDS) Unit with Co-Injection Process (Hot metal from the blast furnace (BF) is	75%	• Injection Lance and automatic sampling Unit with auxiliaries • De-slagging Machines (slag raking machine) with auxiliaries

S. No.	Plant /Unit package	Minimum domestic content of Capital Goods (%)	Importable Items
	received in a torpedo ladle or open-top ladle, undergoes desulfurization treatment to reduce “Sulphur (S)” content, and is then transferred to the BOF converter)		Temp. measuring and sampling device with auxiliaries
13.2	Hot Metal De- De-Sulphurization Station (HMDS) Unit with Mechanical Stirrer (KR) Process (Hot metal from the blast furnace (BF) is received in a torpedo ladle or open-top ladle, undergoes desulfurization treatment to reduce “Sulphur (S)” content, and is then transferred to the BOF converter)	70%	- Impeller, Impeller lifting & stirring equipment, Guide Frame with auxiliaries - De-slagging Machines (slag raking machine) with auxiliary facilities - Temp. measuring and sampling device with auxiliaries
13.3	Basic Oxygen Furnace / LD Unit [Treated hot metal is poured into the BOF converter, where it undergoes processing to convert it into steel, which is then supplied to the ladle furnace (LF)]	65%	- Lance body with clamping, Lance carriage, Lance guide, Lance hoist & trolley, Lance copper tips with auxiliaries. - Pneumatic motors for emergency tilting drive. - Bottom stirring system, valve station & rotary joint along with auxiliaries - Valve stations for oxygen/ argon/ nitrogen with auxiliaries - Sub-lance system with auxiliaries - Container lab with all auxiliaries. - Automatic gas coupling (auto coupler) with auxiliaries. - Converter wrecking machine. - Converter tap hole changing machine - Refractory monitoring (laser) machine. - Converter Shell parts, Suspension System, Rotary joint, Slag Stopper & its control valves - Converter Tilting Drive system & Suspension system, gearboxes & Motors, Pneumatic Motors & control valves, Position Encoders, Clutch system, Lubrication system components. - Ladle Transfer Car Rail Track System (A series type) & gearboxes, stirring couplings. - LOMAS Gas Analyzer, Multi-lab temperature & sample system. - Stirring couplings for ladle transfer Cars. - PLCs and RIOs. - Automation system and software. - Hot Zone Hydraulic Pumps and Valves. - Hot Zone Geared Motors with wheel block. - Converter Bearings. - Air & Electric operated Slurry Compaction Pump. - Primary ID fan, bearings, motors, drives & Lubrication system.

S. No.	Plant /Unit package	Minimum domestic content of Capital Goods (%)	Importable Items
13.4	Electric Arc Furnace Unit (Primary materials such as scrap, DRI, pig iron, and hot metal in combination is converted into liquid steel using electrical energy to melt and refine the raw materials)	70%	• WDS-Cone • Electrode regulation system with auxiliaries • High current system including furnace transformer • Oxygen & Carbon Injection System with auxiliaries • Manual Temp Measuring & sampling Lance with auxiliaries
13.5	Ladle Furnace Unit [Liquid steel is processed/ treated to achieve the desired grade and held as buffer stock before being supplied to the continuous casting machine (CCM)]	70%	• Electrode regulation system with auxiliaries • Manual Temp Measuring & sampling Lance with auxiliaries.
13.6	RH/ RH-OB Unit [The liquid steel is degassed to achieve the required dissolved gas levels and then supplied to the continuous casting machine (CCM)]	65%	• Gas Stirring System/ Lift Gas Stirring System Valve Stand with auxiliaries • Oxygen Lance System with auxiliaries • Hydri Measurement System with auxiliaries
13.7	Argon-Oxygen Decarburization (AOD) Unit	70%	• Drive Unit for tilting of AOD converter, Air Motor, Brakes etc. • Lance copper tips • Hoses for water and oxygen • Pneumatic motors for emergency tilting drive. • Bearing for AOD Converter, Emergency Gears for air motor • Valve stations for oxygen/ argon/nitrogen with auxiliaries. • Refractory monitoring (laser) machine • Automation system.
13.8	VD/VOD	70%	• Gas analysis (Off-Gas Mass Spectrometers) only sensor. Holder is make in India • Automation and Process control software platform • Vacuum Pump System with Auxiliary • Oxygen tips • Valve stations for oxygen/ argon/nitrogen with auxiliaries.
13.9	Submerged Arc Furnace (SAF) Unit	65%	• Clay gun and drill M/c • Electrode equipment • Slipping device assembly • Electrode guiding assembly • Upper & Lower mantle assembly • Pressure ring assembly • Contact shoe assembly • Heat shield assembly • Electrode seal assembly • Pressure ring bellows • Seal refractory • Furnace automation and Controller Software

S. No.	Plant /Unit package	Minimum domestic content of Capital Goods (%)	Importable Items
13.10	Continuous Casting Unit (Slab Caster/ Billet/ Bloom Round/ Combi/ Beam Blank) [The liquid steel is cast into slabs, billets, or blooms in the continuous casting machine (CCM)]	65%	- Ladle slag detection system completes with auxiliaries - Copper tube and Plate, Mould oscillation Cylinder. - Rotary Union. - Continuous temperature measuring system with auxiliaries. - Torch cutting machine/ Emergency torch cutter along with auxiliaries - De-burring machine along with electrical drive system with auxiliaries - Marking machine. - Roll gap checker completes with auxiliaries - Electromagnetic Stirrer (EMS)/ Electromagnetic Braking (EMBr) system along with auxiliaries
14	Flat Product Mills		
14.1	Hot Strip Mills/ Plate Mill (Boundary Limit: Slab yard to Dispatch Bay, including auxiliaries)	50%	De-scalars, mill stand, bed plates, backup rolls, Work Rolls, mill spindles, chocks, AGC cylinders, bending blocks & cylinders, shears, down coilers, anti-friction roll neck bearings, oil film bearings, mill reducers, load cells, thickness gauge, profile gauge, width gauge, levelers, roll grinding machines, Coil Marking Machine, Plate Marking Machine, mill stand motors & mill stand MV drive system, automation system, etc.
14.2	CRM (PLTCM) (Boundary Limit: Pickling line entry to mill exit)	50%	Welding machine, tension leveler, mill stands, backup rolls, antifriction bearings, oil film bearings, roll chocks, roll force cylinders, roll bending and roll shifting cylinders, mill spindles, load cells, position transducers, Electrostatic Oiler, Side Trimmer, Steering System, Surface Inspection System, thickness gauges, laser speed gauge, tensiometer, Flatness Gauge, tension reel, mill reducers, mill stand motors & mill stand MV drive system, automation system etc.
14.3	CRM (HDGL) (Boundary Limit: entry to exit of HDGL including temper mill & tension leveler)	60%	Welding machine, radiant tube furnaces, jet cooling system, coating pot with induction heating, pot rolls, air knife wiping system, tension leveler, width gauge, thickness gauge, coating thickness gauge, load cells, roll force cylinders, mill stand motors & mill stand drive system, automation system, etc.
14.4	CRM (SPM) (Boundary Limit: entry to exit of SPM)	50%	Mill stands, backup rolls, antifriction bearings, oil film bearings, roll chocks, roll force cylinders, mill spindles, Electrostatic Oiler, Coil Marking System, load cells, thickness gauge, mill stand motors & mill

S. No.	Plant /Unit package	Minimum domestic content of Capital Goods (%)	Importable Items
			stand MV drive system, automation system, etc.
14.5	CRM (Bell Annealing Furnace) (Boundary Limit: From furnace bases to post cooling equipment)	55%	Furnace, automation system, etc.
14.6	CRM (Color Coating Line) (Boundary Limit: Entry to exit of CCL)	80%	Coater, Coating thickness gauge, digital printer, tension leveler, automation, etc.
14.7	TSCDR (Thin Slab casting Direct Rolling) (Boundary Limit: From turret to coil finishing & packaging area)	50%	- Ladle slag detection system complete with auxiliaries - Copper tube and Plate, Mould oscillation Cylinder. - Rotary Union. - Continuous temperature measuring system with auxiliaries. - Pendulum shear cutting machine. - Segments assembly - Roll gap checker complete with auxiliaries - Electromagnetic Stirrer (EMS)/Electromagnetic Braking (EMBr) system along with auxiliaries, - Tunnel furnace burners - Roughing & Finishing Mill stands, work roll & backup rolls, antifriction bearings, oil film bearings, roll chocks, roll force cylinders, mill spindles, mill stand MV drive and motors, automation system, laminar/power cooling components, hydraulic coilers. Profile gauge, thickness gauge, width gauge. - Nozzles - Grease system and auxiliaries - Hydraulic system and auxiliaries - Gearbox - ROT roll assembly - Roll assembly (Sleeve, Shaft, Roll) - Ladle turret and auxiliaries (Slew bearing, Disc coupling, Gearbox, Hydraulic clutch and Hydraulic Cylinder) - Mould breakout prediction system - Auto mould level control nucleonic gauge - Mould powder feeding system - CNC mould machining system with auxiliaries - Tundish and Turret weighing system - Tunnel furnace refractory rolls. - Tunnel furnace shuttle drive system and gas conveying system. - Backup roll hydrostatic lubrication system - Roll bite lubrication system - In-furnace camera with auxiliaries - Crop shear - Descaler system and component - Coil marking machine

S. No.	Plant /Unit package	Minimum domestic content of Capital Goods (%)	Importable Items
			• Online Coil weighing system • Cut to Length Stacker System • Roll Shop (CNC Combi grinders, CNC Roll Grinders, CNC Knife Grinders, CNC Turing Machine, Lathe Machines) • Coil Strapping machines • Down coiler system • Mill Measuring system and Sensors (Automatic gauge control (AGC) sensors (roll force, gap, pressure) • Looper Control System along its sensors • Condition based monitoring System and its sensors • Coil shuttle car and pallet conveying system. • Crane coil tong. • RO and UF membranes • Self-cleaning filters
14.8	Normalizing Facilities for Plate Mill (Boundary Limit: entry to Normalizing furnace to dispatch of finished plates)	50%	• Furnace burners, Furnace hearth rollers, leveler, load cell, automation
14.9	SSM (Silicon Steel Mill) (Boundary Limit: Pickling line entry to dispatch of SSM)	50%	• Mill stand, work roll & backup roll, antifriction bearings, oil film bearings, roll chocks, roll force cylinders, mill spindles, mill stand MV drive system & motors, automation system, annealing furnace, decarburizing line, electrical steel testing facilities (e.g. Fischer scope thickness measuring device, Frankline Insulation Resistivity Tester, Magnetic Console, Stacking Factor tester).
14.10	CRM (Cluster Mill stand) Sendzimir Mill (Boundary Limit: entry to exit of Sendzimir Mill)	50%	• Sendzimir Mill stand, work roll & backup rolls, antifriction bearings, oil film bearings, roll chocks, roll force cylinders, mill spindles, mill stand MV drive system & motors, automation system
14.11	HRM (Steckel Mill) (Boundary Limit: From coiler furnace entry to Steckel Mill and exit to coiler furnace)	40%	• Steckel Mill stand, heated coilers, work roll & backup rolls, antifriction bearings, oil film bearings, roll chocks, roll force cylinders, mill spindles, mill stand MV drive system & motors, automation system
15	Long Product Mills		
15.1	Bar Mill/ WRM/MM/ LSM (Boundary Limit: From furnace entry to dispatch)	75%	• Fast finishing blocks, Roll turning lathes, Profile Gauge, automation systems, etc.
15.2	Rail Mill/ Heavy Structural Mill (Boundary Limit: From furnace entry to exit of the rail welding plant excluding material handling)	45%	• Mill stands, mill motor & drive system, heat treatment facility, straightening machine, NDT facilities, welding machine, Profile Gauge, Hot Saw, Cold Saw, Hot Marking Machine, Roll Turning Lathe, Saw Grinding Machine, automation system, etc.
15.3	ERWPP (Electrical Resistance Welded Pipe Plant)	50%	• Pre-forming Unit, Break-Down Stand, Edge Bender, Universal Cage, Finishing Pass

S. No.	Plant /Unit package	Minimum domestic content of Capital Goods (%)	Importable Items
	(Boundary Limit: From strip feeding to finishing facilities and dispatch of ERWPP)		(multiple stands), Pipe Guide, high frequency welding machine, high power electric inductors, hydro testing, ultrasonic machine
15.4	SWPP (Spiral Welded Pipe Plant) (Boundary Limit: From pipe forming to finishing facilities and dispatch of SWPP)	50%	Submerged arc welding, outside welding (skelp joint), X-ray station, hydro testing, beveling machine, ultrasonic machine, end radiograph station
16	Wheel Plant		
16.1	Wheel Plant (receipt of round/ingot to finished wheel)	30%	Circular saw, forging press, wheel rolling mill, wheel dishing press, wheel stamping machine, rim spaying machine, mobile chargers, (Handling Robots), machining facilities, testing facilities, automation system etc.
16.2	Heat Treatment Facilities for Railway Wheels (Boundary Limit: exit of Hot Dimension Measurement to Black Wheel Storage)	40%	Furnace burners, hearth rollers, automatic wheel handling and quenching machine
16.3	Non-Destructive Testing (NDT) Facilities for Wheels and Rails (Boundary Limit: entry & exit of NDT facilities)	30%	Hardness testing machine, Ultrasonic testing machine, Magnetic particle inspection machine, Eddy current testing machine
16.4	Facilities for Manufacturing of Forged Rolls for Rolling Mill Stands (Boundary Limit: entry of forged blank roll to dispatch of finished rolls)	30%	Forging Press, Manipulators, roll hardening machine, Cryogenic treatment facilities, tempering furnaces, roll grinders, roll turning lathes, hardness testing machine, ultrasonic testing machine
16.5	RGBS/ Roll Shop	50%	- CNC work roll grinder/CNC combi grinder, CNC Roll turning lathe, - Facilities for Electric Discharge Texturing (EDT) and Electro Discharge Machining (EDM) for rolls
17	Refractory Brick (Receipt of raw material to finished brick)	50%	Hydraulic Press
18	Electrical (Power Quality System)	30%	- MVSTATCOM (Static Synchronous Compensator) System
Other auxiliary and utility equipment			
19	Calcination Plant (Calcined Lime & Dolo)		- Firing system, Shaft level indicator, Automation system - VFD & Soft Starter Cards. - Driving Air Blower, Dedusting Draft Fans, Cooling Air Fans, Lime Cooling Fan, Waste Gas Fans, Gas Booster Fan assembly - Hyd. Cylinders, Hyd. Motors, Hyd. Station.
20	Electric Motor Driven Cold Blast Blower (Axial/Axial with last stage radial)		- Axial/ Axial with last stage radial Blower - Motor with Drive System - Blow-off Valve - Blower non-return valve - Control & Instrumentation items

S. No.	Plant /Unit package	Minimum domestic content of Capital Goods (%)	Importable Items
21	Steam Turbine Driven Cold Blast Blower (Axial/Axial with last stage radial)		• Axial/ Axial with last stage radial Blower • Blow-off Valve • Blower non-return valve • Control & Instrumentation items
22	Diesel Engine Driven Cold Blast Blower (Axial/Axial with last stage radial/radial)		• Axial/ Axial with last stage radial Blower/radial Blower and Systems • Diesel Engines • Blow-off Valves • Blower non-return valves • Control & Instrumentation items
23	Gas Fired/ Heat Recovery Boilers		• Special Grade Plates & Tubes • Flame Scanner • Instrumentation & controls
24	Steam Turbine (Extraction/ BPTG)		• Special Grade Blade Material • Governing System • Turbo Supervisory system • Instrumentation & controls
25	Gas Holder		• Gasholder seal, sealant. • Level weight ropes with fittings. • V. R. Valve gaskets • Specialized membranes for double/triple membrane system. • Hydraulics
26	High pressure gas boosters (Outlet pressure > 2000 mm WC)		• Gas booster proper including control and bypass valves • Piston Rings • Concentric Ring Type Valves (SS)
27	Pollution Control Systems		• TR sets • Controllers • Insulators • ESP electrical components • Control & Instrumentation items
28	Water & Effluent Treatment System		• Membranes • Evaporators (Compressor & Titanium Sheet) • HP Pumps • Control & Instrumentation items
29	Compressed Air Station		• Centrifugal Compressor core assembly including Impellers, Bull Gear, Pinion Shafts, Bearings, Vibration Probes and Local Control Panel.
30	Hydrogen Plant		• Electrolyser unit • HP Compressors • Control & Instrumentation items
31	Packaged Chillers		• Compressors • Control & Instrumentation items
32	Other Utility areas like— Air conditioning & ventilation system, VAM based chiller system, firefighting system, gas boosters (DP less than 2000 mm WC), cooling water system (pumping station, filters, cooling		• Items / Equipment have sub-components / parts which are imported • Compressors, Chillers, Crane AC units, Expansion Valve, Instruments, High Temperature Application AC

S. No.	Plant /Unit package	Minimum domestic content of Capital Goods (%)	Importable Items
	towers, heat exchangers, etc.), gas mixing stations, pollution control systems, inter plant piping system		
33	Electric overhead travelling crane and gantry crane, electric hoist		Barrel coupling, heavy duty bearing, crane rail lubrication, slew ring bearings, tongs
34	Engineering shop		CNC lathe, CNC milling machine
35	Power Generation, transmission & Distribution system; Shop Electrics including Power & control system and associated electrical works	As per Minimum local content (MLC) % guideline of Ministry of Power	
Note: All equipment shall be procured/ complied as per the Class-I category of the Ministry of Power guidelines. In case(s) where the equipment is not mentioned in Class-I category, or where classification/specification of the equipment is not explicitly or clearly defined under the Ministry of Power guidelines, the provisions issued by DPIIT for Class-I and Class-II categories shall accordingly be followed.			
36	Instrumentation items/ equipment **	As per DPIIT guideline *	- Above / under burden probe system - Profilometer - Burden camera - Tuyere phenomena detection system (TPDS) - Top gas analyzers (CO, CO₂, H₂, O₂, pollutants) - Flow jam switch - Elemental analyzers - Moisture analyzer (Nucleonic) - CV analyzer - Thickness gauge - Hot metal detector - Width gauge - Furnace camera - Multifunction profile gauge - Flatness/shape gauge - Surface inspection system - Laser doppler velocity meter - Optical barrier - Thermal imaging systems for hot rolling - Automatic gauge control (AGC) sensors (roll force, gap, pressure) - Online mechanical property prediction systems (AI + sensors) - Oil film thickness monitoring systems (cold rolling) - X-Ray or Nucleonic Based Coating Thickness Gauges - Mass flow meter - Hydri (hydrogen detection in molten steel) - Mold level measurement - Break-Out Prediction System (BOPS) - Electromagnetic Brake (EMBr) Control & Sensors - Ladle tracking and management system - Slag Detection System (SDS)/ Slag Monitoring Systems

S. No.	Plant /Unit package	Minimum domestic content of Capital Goods (%)	Importable Items
			• BOF Endpoint Detection (Laser-Induced Breakdown Spectroscopy – LIBS) • Sub-Lance Systems (Temp + O₂ + Carbon + Sampling) • Ladle Refractory Wear Monitoring (Laser/Ultrasonic/Infrared) • Continuous Emissions Monitoring Systems (CEMS – imported analyzers for SO_x, NO_x, PM, CO, CO₂, O₂, H₂) • Off-gas analyzer for BOF/ EAF (CO, CO₂, H₂, dust) • Water quality analyzers (pH, Conductivity, Oil-in-water, TOC, Silica, BOD, COD, TSS, TDS, Phenol, Cyanide) • Laser-based gas leak detectors (CH₄, CO, H₂, H₂S) • Acoustic / ultrasonic leak detection • Vibration / condition monitoring sensors / Axial shift / Differential expansion monitoring systems • Anti-collision system (Radar/ Laser/ Lidar) • Oven Identification System (OIS) • Pyrometers • LOMAS Analyzers • Master calibrators for pressure, temperature and electrotechnical parameters • Instruments installed in Eirich Mixers in Sinter plant, and Hanzel make lubrication systems. • Governor systems for Turbines and Turbo-blowers • Tail gas analyzers for By-product plant • Force sensors used in Coke bucket Lifter & reversing winch • Encoders, • Hydraulic valve controllers • Instruments installed in BLTs (Tilt switch, sonic sensor, encoders, etc.) • Flame sensors/scanners
37	Automation items/ equipment **	As per DPIIT guideline *	
38	Voice Communication system **	As per DPIIT guideline *	
39	Fire Detection and Alarm (FDA) system **	As per DPIIT guideline *	
40	CCTV system **	As per DPIIT guideline *	

S. No.	Plant /Unit package	Minimum domestic content of Capital Goods (%)	Importable Items
Note: * Instrumentation, automation, communication equipment, Fire Detection & Alarm (FDA) system, and CCTV system shall comply with the domestic content requirements for capital goods in line with Class-I and Class-II supplier norms as per DPIIT as well as MEITY guidelines. ** Highly specialized equipment, components, and critical parts such as semiconductor chips for instrumentation, automation, communication systems, fire detection & alarm (FDA) systems, and CCTV systems are currently being sourced from global technology leaders. However, the overall system assembly, integration, and manufacturing activities are being carried out in India, with the remaining components procured through domestic sources.			

Appendix-C**Promotion of Indigenous Technologies in Iron & Steel Sector****1) Objective:**

To promote self-reliance in the Indian iron and steel sector by incentivizing the adoption, development, and scale-up of indigenous technologies across all stages of steel manufacturing.

2) Scope:

This policy applies to Central Public Sector Enterprises involved in steelmaking or putting up a steel manufacturing plant.

3) Policy Directives:

3.1 In cases where technology and proof for earlier engineering & supply is available but does not match the present capacity requirement, following conditions will be applicable for indigenous technology providers:

3.1.1 Production capacity reference to be 30% of the capacity of the proposed plant.

3.1.2 Availability of demonstrable tie ups with the vendors.

3.1.3 Experience of detailed engineering of projects for at least 75% of the capacity of the proposed plant.

3.2 In cases where technology is available but no reference for earlier supply is available, following conditions will be applicable for indigenous technology providers:

3.2.1 The indigenous technology supplier has done detailed engineering of projects matching at least 75% of the features of the proposed project.

3.2.2 The indigenous technology supplier has done detailed engineering matching 100% of the critical features of the proposed project.

3.2.3 Availability of demonstrable tie ups with the vendors.

3.2.4 Demonstrable evidence of technology availability (IPR or other sufficient evidence).

3.3 In cases where no Indian technology is available, a foreign technology supplier committing to transfer technology, including training and handholding to an Indian CPSE (including the procuring entity), within three years, shall be considered as deemed Class-I supplier irrespective of percentage of Domestic Value Addition. In this case, purchase preference shall be given to the foreign technology supplier as defined in DPIIT's Public Procurement (Preference to Make in India) Order amended from time to time.

4) Implementation Oversight:

The Standing Committee constituted by Ministry of Steel shall monitor implementation, resolve disputes, and update the eligibility and incentive criteria periodically.

Form-1**Affidavit of Self-Certification for Compliance with Melt & Pour Requirements (Appendix-A) and/or Domestic Value Addition Requirements (Appendix-A & Appendix-B*)**

*For Appendix-B capital goods, this affidavit must accompany the statutory auditor's / cost auditor's / CA certificate, as mandated under the policy.

I, _____, Resident of _____, being the authorised signatory of M/s _____,

do hereby solemnly affirm and declare as under:

1. I have read and understood the Domestically Manufactured Iron & Steel Products (DMI&SP) Policy, 2025, issued vide Notification No. _____ dated _____. I agree to abide by all terms and conditions of the said policy and the tender in which this affidavit is submitted.

2. This affidavit pertains to the following iron & steel product(s)/capital good(s):

Name of product(s): _____

HS Code(s): _____

Appendix classification: Appendix-A / Appendix-B (select as applicable)

Procuring agency: _____

3. Melt & Pour - Applicable only for Appendix-A items with Melt & Pour condition

I hereby declare that the above product(s) satisfy the Melt & Pour in India requirement as notified in Appendix-A. Specifically:

The steel was melted and poured in India.

The first solid shape (slab/billet/ingot/other) was produced at the following location(s):

Steelmaking facility: _____ Location: _____ Heat numbers; Batch details: _____

I undertake to produce mill test certificates, heat records, and any other documentary proof to substantiate this declaration whenever required by the procuring agency.

(If not applicable, write "Not Applicable".)

4. Domestic Value Addition - Applicable for Appendix-A DVA items and Appendix-B capital goods:

I hereby declare that the Domestic Value Addition (DVA) for the product(s) is: _____ %. The DVA has been computed as per DPIIT guidelines and the formula specified in the DMI&SP Policy, 2025.

4A. For Appendix-B Capital Goods (Mandatory): A certificate issued by the statutory auditor / cost auditor / chartered accountant is enclosed herewith, confirming the DVA of the capital good package in accordance with the policy.

(If Appendix-A item only, strike this clause out.)

5. I confirm that: All information furnished is true and correct. All input steel costs, imported content, and domestic content calculations have been verified. All manufacturing, purchase, and pricing records are available for examination.

If any information is found incorrect or misleading: The procuring agency may disqualify me / my firm from Government tenders as per the procuring agency norms. I agree to pay all assessment costs and penalties, including forfeiture of EMD, as per policy and tender conditions.

6. I undertake to maintain the relevant records, and make them available to any statutory authority.

7. Declaration: I do hereby declare that the statements made above are true to the best of my knowledge and belief. I understand that any misrepresentation shall attract penalties under the DMI&SP Policy, applicable laws, and tender conditions.

For and on behalf of

(Place & Date)

M/s _____

(Authorised Signatory)

[F. No. 8(2)/2023-ID-I]

ABHIJIT NARENDRA, Jt. Secy.

FORMS & FORMAT

LIST OF FORMS & FORMAT

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F-13	E-BANKING FORMAT
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F-19	PROFORMA FOR POWER OF ATTORNEY
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Form No.	Description
F-21	CERTIFICATE BY CHARTERED ENGINEER FOR OWNED EQUIPMENT
F-22	SAMPLE FORMAT OF COMPLETION CERTIFICATE
F-23	PROFORMA OF BANK GUARANTEE FOR MOBILISATION ADVANCE
F-24	UNDERTAKING REGARDING SUBMISSION CONTRACT PERFORMANCE SECURITY/ SD WITHIN STIPULATED TIME LINE
F-25	RA BILL CHECK LIST

F-1
BIDDER'S GENERAL INFORMATION

To,
M/s Indradhanush Gas Grid Limited
7th Floor, NRL Centre, G S Road, Christian Basti, Guwahati, Assam – 781005

SUB: TENDER DOCUMENT FOR LAST MILE CONNECTIVITY WORK INSIDE NUMALIGARH REFINERY LIMITED (NRL) UNDER GUWAHATI-NUMALIGARH PIPELINE (SECTION-1) UNDER NORTH EAST GAS GRID (NEGG) PROJECT OF M/S INDRADHANUSH GAS GRID LIMITED (IGGL)

TENDER NO: 05/51/23VC/IGGL/001(i)-NRL (Tender ID No. 2025 IGGL 253876_1)

1	Bidder Name	M/s.....
2	Status of Firm	Proprietorship Firm/Partnership firm/ Limited Liability Partnership (LLP) firm/Public Limited/ Pvt. Limited/ Govt. Dept. / PSU/ Others If Others Specify: _____ [Enclose relevant certificates / partnership deed/certificate of Registration, as applicable]
3a	Name of Proprietor/ Partners/ Directors of the firm/company	1. 2. 3.
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	Office responsible for executing the contract with GST no. * (In case supply of works are from multiple locations, addresses and GST no. of all such locations are to be provided).	City: District: State: PIN/ZIP: GST No.:
8	Telephone Number/ Mobile no. of address where order is to be placed	(Country Code) (Area Code) (Telephone No.)

9	E-mail address	
10	Website	
11	Mobile Number:	
12	ISO Certification, if any	{If yes, please furnish details}
13	PAN No.	
14	GST No.(refer sl. no. 7above)	
15	EPF Registration No.	
16	ESI code No.	
17	Void	
18	Whether Bidder is Startups or not	Yes / No (If Yes, Bidder to submit requisite documents as specified in ITB: Clause No.50)
	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 intent to place the contract directly on the address from where Works are to be supplied. In case, bidder wants contract at some other address or Works are to be supplied from multiple locations, bidder is required to provide in their bid, the address on which contract is to be placed.

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

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 _____	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 Indradhanush Gas Grid Limited, 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 _____.

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 expiry date of BG should be two months beyond the validity of bid) 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

WITNESS:

(SIGNATURE)
(NAME)

(SIGNATURE)
(NAME)
Designation with Bank Stamp

(OFFICIAL ADDRESS)

Attorney as per
Power of Attorney No. _____
Date: _____

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

1. The Bank Guarantee by Bidders will be given on non-judicial stamp paper as per "Stamp Duty" applicable. The non-judicial stamp paper should be in the name of the issuing Bank.
2. The expiry date should be arrived at in accordance with "ITB: Clause-16.1".
3. The Bank Guarantee by bidders will be given from Bank as specified in "ITB: Clause-16.2".
4. A letter from the issuing Bank of the requisite Bank Guarantee confirming that said Bank Guarantee / all future communication relating to the Bank Guarantee shall be forwarded to the Employer at its address as mentioned at "ITB".
5. Bidders must indicate the full postal address of the Bank along with the Bank's E-mail / Phone from where the Earnest Money Bond has been issued as per proforma provided below.
6. If a Bank Guarantee is issued by a commercial Bank, then a letter to Employer confirming its net worth is more than Rs. 1,000,000,000.00 [Rupees One Hundred Crores] or equivalent along with documentary evidence or in the Bank Guarantee itself.

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

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 (√) Whichever is Applicable		PERFORMANC E BANK GUARANTEE	SECURIT Y DEPOSIT	EM D	ADVANC E
6	BG ISSUED BANK DETAILS					
(A)		EMAIL ID	:			
(B)		ADDRESS	:			
(C)		PHONE NO	:			

FORMAT F-2A
DECLARATION FOR BID SECURITY

To,
M/s Indradhanush Gas Grid Limited
7th Floor, NRL Centre, G S Road, Christian Basti, Guwahati, Assam – 781005

**SUB: TENDER DOCUMENT FOR LAST MILE CONNECTIVITY WORK INSIDE
NUMALIGARH REFINERY LIMITED (NRL) UNDER GUWAHATI-NUMALIGARH
PIPELINE (SECTION-1) UNDER NORTH EAST GAS GRID (NEGG) PROJECT OF M/S
INDRADHANUSH GAS GRID LIMITED (IGGL)**

TENDER NO: 05/51/23VC/IGGL/001(i)-NRL (Tender ID No. 2025_IGGL_253876_1)

Dear Sir

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

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

We understand that we will be put on watch list/holiday/ banning list (as per policies of IGGL in this regard), if we are in breach of our obligation(s) as per following:

- (a) have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or
- (b) having been notified of the acceptance of our Bid by the IGGL during the period of bid validity:
 - (i) fail or refuse to execute the Contract, if required, or
 - (ii) fail or refuse to furnish the Contract Performance Security, in accordance provisions of tender document.
 - (iii) fail or refuse to accept 'arithmetical corrections' as per provision of tender document.
- (c) having indulged in corrupt/fraudulent /collusive/coercive practice as per procedure.

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

FORMAT F-2B
PROFORMA OF "INSURANCE SURETY BOND" FOR "EARNEST MONEY DEPOSIT/ BID SECURITY"

(To be stamped in accordance with the Stamp Act)

To, M/s Indradhanush Gas Grid Limited _____	Insurance Surety Bond No.	
	Date of ISB	
	ISB 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),

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

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

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

This Insurance Surety Bond shall be irrevocable and shall remain valid up to _____ [this date should be two (02) months beyond the validity of the bid]. If any further extension of this Insurance Surety Bond is required, the same shall be extended to such required period on receiving instructions from Bidder M/s. _____ on whose behalf this Insurance Surety Bond is issued.

Notwithstanding anything contained herein:

- a) The Insurer's liability under this Insurance Surety Bond shall not exceed (currency in figures) (currency in words only)
- b) This Insurance Surety Bond shall remain in force upto _____ (this expiry date should be two months beyond the validity of bid) and any extension(s) thereof; and

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

In witness whereof the Insurer, through its authorized officer, has set its hand and stamp on this _____ day of _____ 20__ at _____.

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

Name

Designation

WITNESS:

(SIGNATURE)

(NAME)

(SIGNATURE)

(NAME)

Designation with Insurer Stamp

E-Mail ID:

Telephone/Mobile No. :

Attorney as per

Power of Attorney No.

(OFFICIAL ADDRESS)

Date: _____

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

- a) The Insurance Surety Bond shall be from Insurance Regulatory and Development Authority of India (IRDAI) registered general insurance companies as per guidelines issued by Insurance Regulatory and Development Authority of India (IRDAI).
- b) The Employer shall be the Creditor, the Bidder shall be the Principal debtor and the Insurance company/Insurer shall be the Surety in respect of the Insurance Surety Bond to be issued by the Insurer.
- c) The Insurance Surety Bond should be on Non-Judicial stamp paper/e-stamp paper of appropriate value as per Stamp Act prevailing in the state(s) where the Insurance Surety Bond is submitted or is to be acted upon or the rate prevailing in State where the Insurance Surety Bond is executed, whichever is higher. The Stamp Paper/e-stamp paper shall be purchased in the name of Bidder/Insurer issuing the Insurance Surety Bond.
- d) The expiry date should be arrived at in accordance with "ITB: Clause-16".
- e) A letter from the issuing insurer of the requisite Insurance Surety Bond confirming that said Insurance Surety Bond / all future communication relating to the Insurance Surety Bond shall be forwarded to the Purchaser at its address as mentioned at "ITB".

- f) Bidder must indicate the full postal address of the Insurer along with the Insurer's E-mail / Fax / Phone from where the Insurance Surety Bond has been issued.

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

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

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:

M/s Indradhanush Gas Grid Limited

7th Floor, NRL Centre, G S Road, Christian Basti, Guwahati, Assam – 781005

**SUB: TENDER DOCUMENT FOR LAST MILE CONNECTIVITY WORK INSIDE
NUMALIGARH REFINERY LIMITED (NRL) UNDER GUWAHATI-NUMALIGARH
PIPELINE (SECTION-1) UNDER NORTH EAST GAS GRID (NEGG) PROJECT OF M/S
INDRADHANUSH GAS GRID LIMITED (IGGL)**

TENDER NO: 05/51/23VC/IGGL/001(i)-NRL (Tender ID No. 2025_IGGL_253876_1)

Dear Sir,

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

[1] Name & Designation _____ Signature _____
Phone/Cell: _____
E-mail: @

[2] Name & Designation _____ Signature _____
Phone/Cell: _____
E-mail: @

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

Place:

[Signature of Authorized Signatory of Bidder]

Date:

Name:

Designation:

Seal:

Note:

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

F-4
PROFORMA OF "BANK GUARANTEE" FOR "CONTRACT PERFORMANCE
SECURITY / SECURITY DEPOSIT"
(ON NON-JUDICIAL STAMP PAPER OF APPROPRIATE VALUE)

To, M/s Indradhanush Gas Grid Limited _____	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" which expression shall wherever the context so require include its successors and assignees) have been placed/ awarded the job/work of _____ vide LOA /FOA No. _____ dated _____ for Indradhanush Gas Grid Limited having registered office at 7th Floor, NRL Centre , G.S. Road, Christian Basti ,Guwahati , Assam – 781005 (herein after called the "IGGL" which expression shall wherever the context so require include its successors and assignees).

The Contract conditions provide that the CONTRACTOR shall pay a sum of Rs. _____ (Rupees _____) as full Contract Performance Guarantee in the form therein mentioned. The form of payment of Contract Performance Guarantee includes guarantee executed by Nationalized Bank/Scheduled Commercial Bank, undertaking full responsibility to indemnify Indradhanush Gas Grid Limited, in case of default.

The said M/s. _____ has approached us and at their request and in consideration of the premises we having our office at _____ have agreed to give such guarantee as hereinafter mentioned.

1. We _____ hereby undertake to give the irrevocable & unconditional guarantee to you that if default shall be made by M/s. _____ in performing any of the terms and conditions of the tender/order/contract or in payment of any money payable to Indradhanush Gas Grid Limited 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 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 contractor is unable to complete the work within the period stipulated in the order/contract and in case of extension of the date of delivery/completion resulting extension of defect liability period/guarantee period of the contractor fails to perform the work fully, the bank hereby agrees to further extend this guarantee at the instance of the contractor till such time as may be determined by 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 contractor and notwithstanding any security or other guarantee that IGGL may have in relation to the contractor's liabilities.
7. The amount under the Bank Guarantee is payable forthwith without any delay by Bank upon the written demand raised by 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 Contractor up to a total amount of _____ (amount of guarantees in words and figures) and we undertake to pay you, upon your first written demand declaring the Contractor to be in default under the order/contract and without caveat or argument, any sum or sums within the limits of (amounts of guarantee) as aforesaid, without your needing to prove or show grounds or reasons for your demand or the sum specified therein.
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 _____ (90 days beyond the defect liability period / Warranty / Guarantee this date should be expiry) 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.
2. The Bank Guarantee by Bidders will be given from bank as specified in cl.no. 38.3 of ITB [Section-III] of Tender Document.
3. A letter from the issuing bank of the requisite Bank Guarantee confirming that said Bank Guarantee and all future communication relating to the Bank Guarantee shall be forwarded to Employer.
4. If a Bank Guarantee is issued by a commercial bank, then a letter to Employer and copy to Consultant (if applicable) confirming its net worth is more than Rs. 100,00,00,000.00 [Rupees One Hundred Crores] or its equivalent in foreign currency alongwith documentary evidence OR in the Bank Guarantee itself.
5. Contractor shall submit attached cover letter (Annexure) while submitting Contract Performance Security.
6. **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	:			

FORMAT F-4A
PROFORMA OF "INSURANCE SURETY BOND" FOR "CONTRACT PERFORMANCE
SECURITY / SECURITY DEPOSIT"
(ON NON-JUDICIAL STAMP PAPER OF APPROPRIATE VALUE)

To, M/s Indradhanush Gas Grid Limited	Insurance Surety Bond No.	
	Date of Insurance Surety Bond	
	Insurance Surety Bond 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 "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 having registered office at 7th Floor, NRL Centre, G. S. Road, Christian Basti, Guwahati, Assam-781005 (herein after called the "IGGL" which expression shall wherever the context so require include its successors and assignees).

The Contract conditions provide that the CONTRACTOR/SUPPLIER shall pay a sum of Rs. _____ (Rupees _____) as full Contract Performance Guarantee in the form therein mentioned. The form of payment of Insurance Surety Bond executed by Insurer, undertaking full responsibility to indemnify Indradhanush Gas Grid Limited, in case of default.

The said M/s. _____ (herein after called the "insurer" which expression shall wherever the context so require include its successors and assignees) 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 in form of Insurance Surety Bond to IGGL 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 Indradhanush Gas Grid Limited 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 Insurance Surety Bond, to postpone for any time or from time to time the exercise of any of the powers and rights conferred on you under the order/contract with the said M/s. _____ and to enforce or to forbear from endorsing any powers or rights or by reason of time being given to the said

M/s. _____ and such postponement forbearance would not have the effect of releasing the insurer from its obligation under this debt.

3. Your right to recover the said sum of Rs. _____ (Rupees _____) from us in manner aforesaid is absolute & unequivocal and will not be affected or suspended by reason of the fact that any dispute or disputes have been raised by the said M/s. _____ and/or that any dispute or disputes are pending before any officer, tribunal or court or arbitrator or any other authority/forum and any demand made by you to the Insurer shall be conclusive and binding. The Insurer shall not be released of its obligations under these presents by any exercise by you of its liberty with reference to matter aforesaid or any of their or by reason or any other act of omission or commission on your part or any other indulgence shown by you or by any other matter or changed what so ever which under law would, but for this provision, have the effect of releasing the insurer.
4. The Insurance Surety Bond herein contained shall not be determined or affected by the liquidation or winding up dissolution or changes of constitution or insolvency of the said supplier/contractor but shall in all respects and for all purposes be binding and operative until payment of all money due to you in respect of such liabilities is paid.
5. The Insurer undertakes not to revoke this Insurance Surety Bond during its currency without your previous consent and further agrees that the Insurance Surety Bond shall continue to be enforceable until it is discharged by IGGL in writing. However, if for any reason, the Contractor/Supplier is unable to complete the supply/work within the period stipulated in the order/contract and in case of extension of the date of delivery/completion resulting extension of defect liability period/guarantee period of the supplier/contractor fails to perform the supply/work fully, the insurer hereby agrees to further extend this Insurance Surety Bond at the instance of the Contractor/Supplier till such time as may be determined by IGGL. If any further extension of this Insurance Surety Bond is required, the same shall be extended to such required period on receiving instruction from M/s. _____ (contractor) on whose behalf this Insurance Surety Bond is issued.
6. Insurer also agrees that IGGL at its option shall be entitled to enforce this Insurance Surety Bond against the Insurer (as principal debtor) in the first instant, without proceeding against the Contractor/Supplier and notwithstanding any security or other guarantee that IGGL may have in relation to the Contractor/Supplier's liabilities.
7. The amount under the Insurance Surety Bond is payable forthwith without any delay by Insurer upon the written demand raised by IGGL. Any dispute arising out of or in relation to the said Insurance Surety Bond 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 Contractor/Supplier up to a total amount of _____ (amount of guarantees in words and figures) and we undertake to pay you, upon your first written demand declaring the Contractor/Supplier to be in default under the order/contract and without caveat or argument, any sum or sums within the limits of (amounts of guarantee) as aforesaid, without your needing to prove or show grounds or reasons for your demand or the sum specified therein.

9. We have power to issue this Insurance Surety Bond in your favor under our Memorandum and Articles of Association, and the undersigned has full power to sign and execute documents under the Power of Attorney, dated _____ granted to him by the Insurer.
10. Notwithstanding anything contained herein:
- a) The Insurer's liability under this Insurance Surety Bond shall not exceed (currency in figures) (currency in words only)
 - b) This Insurance Surety Bond shall remain in force upto _____ (this date should be 90 days beyond the expiry date of defect liability period of the Contract) and any extension(s) thereof; and
 - c) The Insurer shall be released and discharged from all liability under this Insurance Surety Bond unless a written claim or demand is issued to the Insurer on or before the midnight of(indicate date of expiry of claim period which includes minimum three months from the expiry of this Insurance Surety Bond) and if extended, the date of expiry of the last extension of this Insurance Surety Bond. If a claim has been received by us within the said date, all the rights of IGGL under this Insurance Surety Bond shall be valid and shall not cease until we have satisfied that claim.

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

Name

Designation

Yours faithfully,

Insurer by its Constituted Attorney

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

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

- a) The Insurance Surety Bond shall be from Insurance Regulatory and Development Authority of India (IRDAI) registered general insurance companies as per guidelines issued by Insurance Regulatory and Development Authority of India (IRDAI).
- b) The Employer shall be the Creditor, the Bidder shall be the Principal debtor and the Insurance company/Insurer shall be the Surety in respect of the Insurance Surety Bond to be issued by the Insurer.
- c) The Insurance Surety Bond should be on Non-Judicial stamp paper/e-stamp paper of appropriate value as per Stamp Act prevailing in the state(s) where the Insurance Surety

Bond is submitted or is to be acted upon or the rate prevailing in State where the Insurance Surety Bond is executed, whichever is higher. The Stamp Paper/e-stamp paper shall be purchased in the name of Bidder/Insurer issuing the Insurance Surety Bond.

- d) A letter from the issuing insurer of the requisite Insurance Surety Bond confirming that said Insurance Surety Bond and all future communication relating to the Insurance Surety Bond shall be forwarded to Purchaser.
- e) Supplier/Contractor shall submit attached cover letter (Annexure) while submitting Contract Performance Security / Security Deposit.

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

1	INSURANCE SURETY BOND NO	:				
2	VENDOR NAME / VENDOR CODE	:	NAME			
			VENDOR CODE			
3	INSURANCE SURETY BOND AMOUNT	:				
4	PURCHASE ORDER/ LOA NO	:				
5	NATURE OF INSURANCE SURETY BOND	:				
	(Please Tick (√) Whichever is Applicable		PERFORMAN CE INSURANCE SURETY BOND	SECURI TY DEPOSI T	EM D	ADVAN CE
6	INSURER DETAILS					
		(A)	EMAIL ID	:		
		(B)	ADDRESS	:		
		(C)	PHONE NO	:		

F-5
AGREED TERMS & CONDITIONS

To,
M/s Indradhanush Gas Grid Limited
7th Floor, NRL Centre, G S Road, Christian Basti, Guwahati, Assam – 781005

SUB: TENDER DOCUMENT FOR LAST MILE CONNECTIVITY WORK INSIDE NUMALIGARH REFINERY LIMITED (NRL) UNDER GUWAHATI-NUMALIGARH PIPELINE (SECTION-1) UNDER NORTH EAST GAS GRID (NEGG) PROJECT OF M/S INDRADHANUSH GAS GRID LIMITED (IGGL)

TENDER NO: 05/51/23VC/IGGL/001(i)-NRL
(Tender ID No. 2025_IGGL_253876_1)

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

Sl.	DESCRIPTION	BIDDER'S CONFIRMATION
1	Bidder's name, Vendor Code of IGGL (if any) and address (FOA/Order shall be released in this name)	Bidder's name : IGGL's Vendor Code: Address:
2.	Bidder confirms the currency of quoted prices is in Indian Rupees.	
3.	Bidder confirms quoted prices will remain firm and fixed till complete execution of the order (except where price escalation/variation is allowed in the Tender).	
4	Bidder confirms that they have quoted GST (CGST & SGST/ UTGST or IGST) in Price Schedule/ SOR of Price bid.	
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 confirms that they have quoted rate of applicable GST (CGST & SGST/ UTGST or IGST) in Price Schedule / Schedule of Rates of Price Bid	Yes/ No
4.2	Bidder confirms that they have mentioned Harmonized System Nomenclature (HSN)/Service Accounting Code (SAC) in Price Bid	
4.3	Bidder hereby confirms that the quoted prices are in compliance with the Section 171 of CGST Act/ SGST Act as mentioned as clause no. 13.10 of ITB (Anti-profiteering clause).	
4.4	Whether bidder is liable to raise E-Invoice as per GST Act.	
	If yes, bidder will raise E-Invoice and confirm compliance to provision of tender in this regard.	
5.	Bidder confirms acceptance of relevant Terms of Payment specified in the Bid Document.	
6.	Bidder confirms that Contract Performance Security will be furnished as per Bid Document within 30 days of FOA in case of successful bidder.	

Sl.	DESCRIPTION	BIDDER'S CONFIRMATION
7.	Bidder confirms that Contract Performance Security shall be from any Indian scheduled bank (excluding Co-operative banks and Regional Rural bank) or a branch of an International bank situated in India and registered with Reserve bank of India as scheduled foreign bank. However, in case of bank guarantees from banks other than the Nationalised Indian banks, the bank must be a commercial bank having net worth in excess of Rs 100 crores and a declaration to this effect shall be made by such commercial bank either in the Bank Guarantee itself or separately on its letterhead.	
8.	Bidders confirms compliance to Completion Schedule as specified in Bid document and the same shall be reckoned from the date of Fax of Acceptance.	
9.	Bidders confirms acceptance of Price Reduction Schedule for delay in completion schedule specified in Bid document. In case of delay, the bills / invoices shall be submitted after reducing the price reduction due to delay(refer PRS Clause).	
10.	a) Bidder confirms acceptance of all terms and conditions of Bid Document (all sections). b) Bidder confirms that printed terms and conditions of bidder are not applicable.	
11.	Bidder confirms their offer is valid for period specified in BDS from Final/Extended due date of opening of Techno-commercial Bids.	
12.	Bidder have furnished EMD/Bid Security details as under: a) EMD/ Bid Security No. & date b) Value c) Validity d) Bank Address/e-mail ID/Mobile no. [in case of BG] OR Bidder furnishes bid security declaration [applicable for MSEs, 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.	
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.	

Sl.	DESCRIPTION	BIDDER'S CONFIRMATION
15.	All correspondence must be in ENGLISH language only.	
16.	The contents of this Tender Document have not been modified or altered by Bidder. In case, it is found that the tender document has been modified / altered by the bidder, the bid submitted by them shall be liable for rejection.	
17.	Bidder confirms that all Bank charges associated with Bidder's Bank regarding release of payment etc. shall be borne by Bidder.	
18.	<u>NO DEVIATION CONFIRMATION:</u> It may be note that any 'deviation / exception' in any form may result in rejection of bid. Therefore, bidder confirms that they have not taken any 'exception / deviation' anywhere in the bid. In case any 'deviation / exception' is mentioned or noticed, bidder's bid may be rejected.	
19.	If the Bidder becomes a successful Bidder pursuant to the provisions of the Tender Document, the following Confirmation shall be automatically become enforceable: "We agree and acknowledge that the Employer is entering into the Contract/Agreement solely on its own behalf and not on behalf of any other person or entity. In particular, it is expressly understood & agreed that the Government of India is not a party to the Contract/Agreement and has no liabilities, obligations or rights thereunder. It is expressly understood and agreed that the Purchaser is authorized to enter into Contract/Agreement, solely on its own behalf under the applicable laws of India. We expressly agree, acknowledge and understand that the Purchaser is not an agent, representative or delegate of the Government of India. It is further understood and agreed that the Government of India is not and shall not be liable for any acts, omissions, commissions, breaches or other wrongs arising out of the Agreement. Accordingly, we hereby expressly waive, release and forego any and all actions or claims, including cross claims, VIP claims or counter claims against the Government of India arising out of the Agreement and covenants not to sue to Government of India as to any manner, claim, cause of action or things whatsoever arising of or under the Agreement."	
20.	Bidder to ensure all documents as per tender including clause 11 of Section III and all Formats are included in their bid	
21.	Bidder understands that Tender Document is not exhaustive. In case any activity though specifically not covered in description of 'Schedule of Rates' but is required to complete the work as per Scope of Work, Conditions of Contract, or any other part of Bidding document, the quoted rates will deemed to be inclusive of cost incurred for such activities unless otherwise specifically excluded. Bidder confirms to	

Sl.	DESCRIPTION	BIDDER'S CONFIRMATION
	perform for fulfilment of the contract and completeness of the supplies in all respect within the scheduled time frame and quoted price.	
22.	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 & no 'exception / deviation' anywhere has been taken in the same and that they shall abide by provisions of relevant GCC-Works.	
24.	Bidder certifies that they would adhere to the Fraud Prevention Policy of IGGL [available on IGGL's website] 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 no. 13.13 of Section-III.	

Sl.	DESCRIPTION	BIDDER'S CONFIRMATION
26.	Bidders confirm to submit signed copy of Integrity Pact (wherever included in tender). If Bidder is a partnership concern or a consortium, this agreement must be signed by all partners or consortium members.	
27.	Bidder confirms that there is no conflict of interest with other bidders, as per clause no.4.2 of Section-III (ITB) of Tender Document.	
28.	Bidder confirms that, in case of contradiction between the confirmations provided in this format and to the terms & conditions mentioned elsewhere in the offer, the confirmations given in this format shall prevail.	

Place:
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 to concerned executive in IGGL issued the tender, by filling up the Format)

To,
M/s Indradhanush Gas Grid Limited
7th Floor, NRL Centre, G S Road, Christian Basti, Guwahati, Assam – 781005

**SUB: TENDER DOCUMENT FOR LAST MILE CONNECTIVITY WORK INSIDE
NUMALIGARH REFINERY LIMITED (NRL) UNDER GUWAHATI-NUMALIGARH
PIPELINE (SECTION-1) UNDER NORTH EAST GAS GRID (NEGG) PROJECT OF M/S
INDRADHANUSH GAS GRID LIMITED (IGGL)
TENDER NO: 05/51/23VC/IGGL/001(i)-NRL (Tender ID No. 2025_IGGL_253876_1)**

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 :
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 Indradhanush Gas Grid Limited
7th Floor, NRL Centre, G S Road, Christian Basti, Guwahati, Assam – 781005

SUB: TENDER DOCUMENT FOR LAST MILE CONNECTIVITY WORK INSIDE NUMALIGARH REFINERY LIMITED (NRL) UNDER GUWAHATI-NUMALIGARH PIPELINE (SECTION-1) UNDER NORTH EAST GAS GRID (NEGG) PROJECT OF M/S INDRADHANUSH GAS GRID LIMITED (IGGL)

TENDER NO: 05/51/23VC/IGGL/001(i)-NRL (Tender ID No.2025_IGGL_253876_1)

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 (<i>Specify Currency Amount</i>)	Date of Commencement of Services	Scheduled Completion Time (Months)	Date of Actual Completion	Reasons for delay in execution, if any
(1)	(2)	(3)	(5)	(6)	(7)	(8)	(9)	(10)

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

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

F-8 (A)
CHECK LIST

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

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

Sl. No.	DESCRIPTION	CHECK BOX	REFERENCE PAGE NO. OF THE BID SUBMITTED
1.0	Digitally Signing (in case of e-bidding)/ Signing and Stamping (in case of manual bidding) on each sheet of offer, original bidding document including SCC, ITB, GCC ,SOR drawings, corrigendum (if any)		
2.0	Confirm that the following details have been submitted in the Un-priced part of the bid		
i	Covering Letter, Letter of Submission		
ii	EMD / Declaration for Bid Security [as applicable] as per provisions of Tender		
iii	Digitally signed (in case of e-tendering) or 'signed & stamped (in case of Manual tender) tender document along with drawings and addendum (if any)		
iv	Power of Attorney in the name of person signing the bid.		
v	Confirm submission of document alongwith unpriced bid as per bid requirement (including cl.no.11.1.1 of Section-III).		
3.0	Confirm that all format duly filled in are enclosed with the bid duly Digitally Signed (in case of e-bidding)/ Signed and Stamped (in case of manual bidding) by authorised person(s)		
4.0	Confirm that the price part as per Price Schedule format submitted with Bidding Document/ uploaded in case of e-bid.		
5.0	Void		
6.0	Confirm that Undertaking as per <i>Form-2 to Annexure-V to Section-III</i> 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 <i>Form-3 to Annexure-V to Section-II</i> are submitted. (Applicable for all bidders)		

Sl. No.	DESCRIPTION	CHECK BOX	REFERENCE PAGE NO. OF THE BID SUBMITTED
7.0	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)		
8.0	Confirm submission of Checklist against Bid Evaluation Criteria as per format F-8(B)		

Place:
Date:

[Signature of Authorized Signatory of Bidder]
Name:
Designation:

F-8(B)
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					
A.1	Experience as a single bidder	(c) Detailed Work Order along with Schedule of Rates. (d) Completion certificate issued by end user/ Owner (or their consultant who has been duly authorized by owner to issue such certificate). Note: The completion certificates shall have details like work order no., date, brief scope of work, completion date, executed order value. etc.		Yes/No	
Note to A (i)	Jobs executed for Subsidiary / Fellow subsidiary / Holding company	Tax paid invoice(s) duly certified by statutory auditor of the bidder towards payments of statutory tax in support of the job executed for Subsidiary / Fellow subsidiary /Holding company.		Yes/No	
Note to A (ii)	Experience as a consortium member/JV member	(c) Same documents as mentioned in A.1 above. (d) Consortium Agreement / MOU clearly defining the scope and responsibility. Note: The completion certificates shall have details like work order no., date, brief scope of work, completion date, executed order value etc.		Yes/No	

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
Financial BEC					
B	BEC (Financial)	A certificate for financial capability of the bidder from Practicing Chartered Accountant in prescribed format [Format F-10] as provided in the Tender Document.	Submitted (Mention specific year.....)	Yes/No	
B.1	Average Annual Turn-over	Bidder(s) shall submit copy of Audited Annual Financial Statement [Balance Sheet and Profit & Loss Account Statement] along with Audit Report of three (3) preceding Financial Year(s) along with un-price bid.	Submitted (Mention specific year.....)	Yes/No	
B.2	Net Worth	Bidder(s) shall submit copy of Audited Annual Financial Statement [Balance Sheet and Profit & Loss Account Statement] along with Audit Report of last Financial Year along with un-price bid.	Submitted (Mention specific year.....) Submitted/ Not Applicable (Bidder to tick appropriate option)	Yes/No	
B.3	Working Capital	Bidder(s) shall submit copy of Audited Annual Financial Statement [Balance Sheet and Profit & Loss Account Statement] alongwith Audit Report for the last audited Financial Year along with un-price bid. Note: 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, irrespective of overall position of the working	Submitted		

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
		capital, 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 shortfall of working capital shall be from single bank only. Letters from multiple banks shall not be applicable. However, 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. The original document for “Line of Credit” should be submitted along with other physical documents required as per terms and conditions of tender.			

Place:

[Signature of Authorized Signatory of Bidder]

Date:

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 Indradhanush Gas Grid Limited
7th Floor, NRL Centre, G S Road, Christian Basti, Guwahati, Assam – 781005

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. Letters 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. AUDITED ANNUAL TURNOVER* OF LAST 3 YEARS:

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

B. NETWORTH* AS PER LAST AUDITED FINANCIAL STATEMENT:

Description	Year _____
	Amount (Currency)
1. Net Worth	

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

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

****Refer Instructions***

Note:

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

Name of Audit Firm:
Chartered Accountant/CPA
Date:

[Signature of Authorized Signatory]
Name:
Designation:
Seal:
UDIN:

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:
 - (i) **Annual Turnover** shall be “Revenue from Operations” as per Profit & Loss account of audited annual financial statements
 - (ii) **Working Capital** shall be “Current Assets less Current liabilities” and
 - (iii) **Net Worth** shall be Aggregate value of the paid-up share capital and all reserves created out of the profits and securities premium amount, 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.
- 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.
5. **Above figures shall be calculated after considering the qualification, if any, made by the statutory auditor on the audited financial statements of the bidder including quantified financial implication.**
 6. This certificate is to be submitted on the letter head of Chartered Accountant/CPA.

(Page 2 of 2)

F-11
FORMAT FOR CONSORTIUM AGREEMENT
(ON NON- JUDICIAL STAMP PAPER OF APPROPRIATE VALUE)

CONSORTIUM/JV AGREEMENT

VOID

F-12
BIDDER'S QUERIES FOR PRE BID MEETING

To,
M/s Indradhanush Gas Grid Limited
7th Floor, NRL Centre, G S Road, Christian Basti, Guwahati, Assam – 781005

SUB: TENDER DOCUMENT FOR LAST MILE CONNECTIVITY WORK INSIDE NUMALIGARH REFINERY LIMITED (NRL) UNDER GUWAHATI-NUMALIGARH PIPELINE (SECTION-1) UNDER NORTH EAST GAS GRID (NEGG) PROJECT OF M/S INDRADHANUSH GAS GRID LIMITED (IGGL)
TENDER NO: 05/51/23VC/IGGL/001(i)-NRL (Tender ID No. 2025_IGGL_253876_1)

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-13

E-Banking Mandate Form

(To be issued on vendors letter head)

1. Vendor/customer Name :
2. Vendor/customer Code:
3. Vendor /customer Address:
4. Vendor/customer e-mail id:
5. Particulars of bank account
 - a) Name of Bank
 - b) Name of branch
 - c) Branch code:
 - d) Address:
 - e) Telephone number:
 - f) Type of account (current/saving etc.)
 - g) Account Number:
 - h) RTGS IFSC code of the bank branch
 - i) NEFT IFSC code of the bank branch
 - j) 9 digit MICR code

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

(Signature of vendor/customer)

BANK CERTIFICATE

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

Bank stamp

Date

(Signature of authorized officer of bank)

F-14

INTEGRITY PACT

INTEGRITY PACT

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



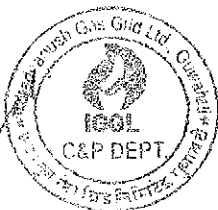
INTEGRITY PACT

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**"

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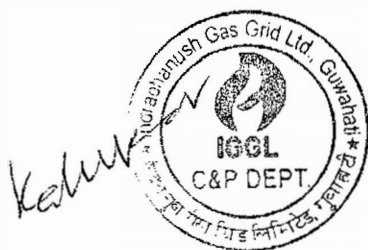


INDEPENDENT EXTERNAL MONITORS (IEMS)

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

- i) **Shri Shyam Nandan Prasad, Director-Marketing, Coal India Ltd. (Retd.)**
(E-mail Id: shyamnandanprasad@yahoo.com)
- ii) **Smt. Madhu Sharma, IFoS (Retd.)**
(E-mail Id: madhulsharma@yahoo.com)

This panel is authorized 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.



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

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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.



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 incase 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.

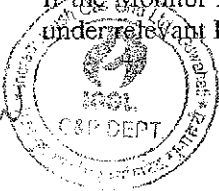


Section 7–Criminal charges against violating Bidder(s)/Contractor (s)/Sub-contractor(s)

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



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)

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



F-15 INDEMNITY BOND

WHEREAS Indradhanush Gas Grid Limited (hereinafter referred to as “IGGL”) which expression shall, unless repugnant to the context include its successors and assigns, having its registered office at 7th Floor, NRL Centre , G.S. Road, Christian Basti ,Guwahati , Assam – 781005 has entered into a contract with M/s*..... (hereinafter referred to as the “**Contractor**”) which expression shall unless repugnant to the context include its representatives, successors and assigns, having its registered office at *..... and on the terms and conditions as set out, inter-alia in the [*mention the work order/LOA/Tender No.*]and various documents forming part thereof, hereinafter collectively referred to as the ‘**CONTRACT**’ which expression shall include all amendments, modifications and / or variations thereto.

IGGL has also advised the Contractor to execute an Indemnity Bond in general in favour of IGGL indemnifying IGGL and its employees and Directors including Independent Directors from all consequences which may arise out of any prospective litigation or proceedings filed or may be initiated by any third party, including any Banker / financial institution / worker(s) /vendor(s)/ subcontractor(s) etc. who may have been associated or engaged by the Contractor directly or indirectly with or without consent of IGGL for above works.

NOW, THEREFORE, in consideration of the promises aforesaid, the Contractor hereby irrevocably and unconditionally undertakes to indemnify and keep indemnified IGGL and all its employees, Directors, including Independent Directors, from and against all/any claim(s), damages, loss, which may arise out of any litigations/ liabilities that may be raised by the Contractor or any third party against IGGL under or in relation to this contract. The Contractor undertakes to compensate and pay to IGGL and/or any of its employees, Directors including Independent Directors, forth with on demand without any protest the amount claimed by IGGL for itself and for and on behalf of its employees, Directors including Independent Directors together with direct/indirect expenses including all legal expenses incurred by them or any of them on account of such litigation or proceedings.

AND THE CONTRACTOR hereby further agrees with IGGL that:

- (i) This Indemnity shall remain valid and irrevocable for all claims of IGGL and/or any of its employees and Directors including Independent Directors arising out of said contract with respect to any such litigation / court case for which IGGL and/or its employees and Directors including Independent Directors has been made party until now or here-in-after.
- (ii) This Indemnity shall not be discharged/revoked by any change/ modification/amendment/assignment of the contract or any merger of the Contractor with other entity or any change in the constitution/structure of the Contractor’s firm/Company or any conditions thereof including insolvency etc. of the Contractor, but shall be in all respects and for all purposes binding and operative until any/all claims for payment of IGGL are settled by the

Contractor and/or IGGL discharges the Contractor in writing from this Indemnity.

The undersigned has full power to execute this Indemnity Bond for and on behalf of the Contractor and the same stands valid.

SIGNED BY :

For [*Contractor*]

Authorised Representative

Place:

Dated:

Witnesses:

- 1.
- 2

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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.	Refer FAQs as available on Govt. e-Procurement System of National Informatics Center (NIC) https://etenders.gov.in/eprocure/app
6.0	Are there are any MSE (Micro & Small Enterprises) benefits available?	Yes. Refer Clause No. 40 of Instructions to Bidders of Tender Document.
7.0	Are there are any benefits available to Startups?	Refer Clause No. 49 of Instructions to Bidders of Tender Document.

All the terms and conditions of Tender remain unaltered.

E-17
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 Indradhanush Gas Grid Limited
7th Floor, NRL Centre, G S Road, Christian Basti, Guwahati, Assam – 781005

SUB: TENDER DOCUMENT FOR LAST MILE CONNECTIVITY WORK INSIDE NUMALIGARH REFINERY LIMITED (NRL) UNDER GUWAHATI-NUMALIGARH PIPELINE (SECTION-1) UNDER NORTH EAST GAS GRID (NEGG) PROJECT OF M/S INDRADHANUSH GAS GRID LIMITED (IGGL)

PO 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:

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

[On the Letter-head of Supplier/Vendor]

We, _____, a company incorporated under the laws of India/ a Consortium between * _____ and * _____ (*name of Consortium partners to be inserted*)/ a Partnership Firm consisting of * _____ and * _____ (*name of Partners to be inserted*)/ a Sole Proprietorship (as the case may be), having its registered office at _____ and carrying on business under the name and style M/s. _____ were awarded the contract by Indradhanush Gas Grid Limited 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 Indradhanush Gas Grid Limited.

We further absolve Indradhanush Gas Grid Limited from all liabilities present or future arising directly or indirectly out of the Contract.

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

Signature with Seal of Supplier/Vendor

Dated:

Format F-19
POWER OF ATTORNEY

(to be submitted on the letter-head of company)

SUB: TENDER DOCUMENT FOR LAST MILE CONNECTIVITY WORK INSIDE NUMALIGARH REFINERY LIMITED (NRL) UNDER GUWAHATI-NUMALIGARH PIPELINE (SECTION-1) UNDER NORTH EAST GAS GRID (NEGG) PROJECT OF M/S INDRADHANUSH GAS GRID LIMITED (IGGL)

TENDER NO: 05/51/23VC/IGGL/001(i)-NRL (Tender ID No. 2025_IGGL_253876_1)

Name of Bidder: _____

“The undersigned _____ (Name of LEGAL PERSON*) is lawfully authorized to represent and act on behalf of the company M/s _____ (Name of bidder) whose registered address is _____ and does hereby appoint Mr./Ms _____ [name of authorized person/(s)] _____ (Designation) of M/s _____ (Name of bidder) whose signature appears below to be the true and lawful attorney/(s) and authorize him/her to sign the bid (**both digitally and manually**) and all subsequent communications, agreements, documents etc., in the name and on behalf of the company in connection with the tender no. _____ for.....(Name of work).

The signature of the authorized person/(s) herein constitutes unconditional obligations of M/s _____ (Name of bidder).

This Power of Attorney shall remain valid and in full force and effect before we withdrawal it in writing (by fax, or mail or post). All the documents signed (within the period of validity of the Power of Attorney) by the authorized person/(s) herein shall not be invalid because of such withdrawal.

SIGNATURE OF THE LEGAL PERSON

(Name of person with Company seal)

SIGNATURE OF THE AUTHORIZED PERSON/(S)

(Name of person)

E-mail id:

Digital token no. used for uploading the bid:

(*)In case of a Single Bidder, Power of Attorney issued by the Board of Directors/ CEO / MD / Company Secretary of the Bidder/ all partners in case of Partnership firm/Proprietor (for Proprietorship firm) in favour of the authorized employee(s) of the Bidder, in respect of the particular tender for signing the Bid and all subsequent communications, agreements, documents etc. pertaining to the tender and to act and take any and all decision on behalf of the Bidder, is to be submitted.

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FORMAT FOR CERTIFICATE BY CHARTERED ACCOUNTANT FOR OWNED EQUIPMENT
VOID

F-21

FORMAT FOR CERTIFICATE BY CHARTERED ENGINEER FOR OWNED EQUIPMENT:
VOID

F-22
COMPLETION CERTIFICATE
ON LETTER HEAD

Ref.: xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
DD.MM.YYYY

Date:

COMPLETION CERTIFICATE

Name of Work :
Name of Contractor :
Length & Size of Pipeline &
Scope of work :
Fax of Acceptance No. :
Letter of Award No. /
Work Order No. :
Contractual Value :
Final Completion Value : DD.MM.YYYY
Contractual Start Date : DD.MM.YYYY

Contractual Completion Date

(a) Mechanical Completion : DD.MM.YYYY
(b) Overall Completion : DD.MM.YYYY

Actual Completion Date

(a) Mechanical Completion : DD.MM.YYYY
(b) Overall Completion : DD.MM.YYYY
Extension of Time granted : Up to DD.MM.YYYY
without levy of PRS
Defect Liability Period : Up to DD.MM.YYYY

Certified that all the works under the subject Contract have been completed as per contractual terms & conditions, specifications, drawings and approved deviations etc. to the satisfaction of Engineer-In-Charge.

(xxxxxxxxxxxxxx)
Engineer – In – Charge

Note : Format of Completion Certificate to be issued upon successful completion of work.

F-23

PROFORMA OF BANK GUARANTEE FOR MOBILISATION ADVANCE

(ON NON-JUDICIAL PAPER OF APPROPRIATE VALUE)

Ref.....

Bank Guarantee No. -----

Date.....

M/s Indradhanush Gas Grid Limited

7th Floor, NRL Centre, G S Road, Christian Basti, Guwahati, Assam – 781005

In consideration of the Indradhanush Gas Grid Limited, hereinafter called the "Owner" which expression shall unless repugnant to the context or meaning thereof include its successors, executors, administrators and assignees, having awarded to M/s..... having its registered office at hereinafter referred as the 'CONTRACTOR', which expression shall unless repugnant to the context or meaning thereof, include its successors, administrators, executors and assignees, a contract hereinafter referred to as the 'Contract' for related works..... referred to as the 'WORK' on terms and conditions set out, inter-alia in the Owner's Contract No.....dated..... valued at..... (in words & figures) and as the Owner having agreed to make an advance payment (herein referred as Mobilization advance) for the performance of the above contract to the CONTRACTOR amounting to.....(in words & figures) as an advance against Bank Guarantee to be furnished by the CONTRACTOR.

We..... hereinafter referred to as the BANK which expression shall, unless repugnant to the context or meaning thereof, include its successors, administrators, executors and assignees having our office at..... do hereby undertake to give the irrevocable and unconditional guarantee and do hereby undertake to pay the OWNER on first demand without any demur, reservation, contest, recourse, protest and without reference to the CONTRACTOR any and all monies payable by the CONTRACTOR by reason of any breach by the said CONTRACTOR of any of the terms and conditions of the said Contract to the extent of..... till the said advance is adjusted as aforesaid at any time upto..... We agree that the guarantee herein contained shall continue to be enforceable till the sum due to the Owner on account of the said advance is adjusted /recovered in full as aforesaid or till the Owner discharges this guarantee in writing.

The OWNER shall have the fullest liberty without affecting in any way the liability of the BANK under this guarantee, from time to time to vary the advance or to extend the time for performance of the works by the CONTRACTOR. The BANK shall not be released from its liability under these presents by any exercise of the Owner of the liberty with reference to the matter aforesaid.

The Owner shall have the fullest liberty, without reference to CONTRACTOR and without affecting this guarantee to postpone for any time or from time to time the exercise of any powers vested in them or of any right which they might have against the CONTRACTOR, and to exercise the same at any time in any manner, and either to enforce or to forebear to enforce any power, covenants contained or implied in the Contract between the OWNER and the CONTRACTOR or any other course or remedy or security available to the OWNER and the BANK shall not be released of its obligations under these presents by any exercise by the OWNER of its liberty with reference to matters aforesaid or other acts of omission or commission on the part of the OWNER or any other law would, but for this provision, have the effect of releasing the

BANK.

The right of the OWNER to recover the outstanding sum of advance upto Rs..... from the BANK in the manner aforesaid is absolute and unequivocal and will not be affected or suspended by reason of the fact that any dispute or disputes has or have been raised by the CONTRACTOR and/or that any dispute or disputes is or are pending before any officer, tribunal or court or arbitrator or any other authority / forum and any demand made by OWNER on the BANK shall be conclusive and binding.

The BANK further undertakes not to revoke this guarantee during its currency without previous consent of the OWNER and further agrees that the guarantee contained shall continue to be enforceable until it is discharged by IGGL in writing.

The BANK also agrees that the OWNER shall at its option be entitled to enforce this guarantee against the BANK as a principal debtor, in the first instance, notwithstanding any other security or guarantee that OWNER may have in relation to the CONTRACTOR's liabilities towards the said advance.

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, Assam, India.

Therefore, we hereby affirm that we are guarantors and responsible to you on behalf of the Contractor up to a total amount of (amount of guarantees in words and figures) and we undertake to pay you, upon your first written demand declaring the Contractor to be in default under the contract and without caveat or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or show grounds or reasons for your demand or the sum specified therein.

Notwithstanding anything contained hereinabove, our liability under this guarantee is restricted to _____ and it will remain in force upto and including _____ and shall be extended from time to time for such periods as may be advised by M/s on whose behalf this guarantee has been given.

We have power to issue this guarantee in your favour under Memorandum and Articles of Association and the undersigned has full power to do so under the Power of Attorney/ resolution of the Board of Directors dated..... accorded to him by the BANK.

Dated.....this.....day of.....20.....

Signed by

(Person duly authorized by Bank)

Place:

WITNESS :

1..... (Signature)
..... (Printed Name)

2..... (Designation)
.....
(Common Seal)

INSTRUCTIONS FOR FURNISHING CONTRACT PERFORMANCE 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 ITB.
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 Owner confirming its net worth is more than Rs. 1,000,000,000/- (Rupees one hundred Crores). or its equivalent in foreign currency along with a documentary evidence.

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**UNDERTAKING REGARDING SUBMISSION CONTRACT PERFORMANCE SECURITY/ SD
WITHIN STIPULATED TIME LINE
(to be submitted on letter head of bidder)**

To,
M/s Indradhanush Gas Grid Limited
7th Floor, NRL Centre, G S Road, Christian Basti, Guwahati, Assam – 781005

**SUB: TENDER DOCUMENT FOR LAST MILE CONNECTIVITY WORK INSIDE NUMALIGARH
REFINERY LIMITED (NRL) UNDER GUWAHATI-NUMALIGARH PIPELINE (SECTION-1)
UNDER NORTH EAST GAS GRID (NEGG) PROJECT OF M/S INDRADHANUSH GAS GRID
LIMITED (IGGL)**

TENDER NO: 05/51/23VC/IGGL/001(i)-NRL (Tender ID No. 2025_IGGL_253876_1)

Dear Sir,

We hereby confirm that we have clearly understood the requirement of Contract Performance Security/ SD specified in the tender document.

We also hereby confirm that in case of award of contract / order, we will submit Contract Performance Security/ SD within 30 days from the date of Fax of Acceptance.

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

FORMAT F-25					
CHECKLIST FOR RUNNING BILLS					
SL.No	Document Description	Annexure	Signature Of		
			Contractor	PMC	IGGL
(A) Bill Specific point					
1	Cervat-able Invoice in Contractor's letter-head raised to "OIC, Indradhanush Gas Grid Limited, * (Place of availment of cervat)"				
2	Memorandum of payment				
3	Abstract of payment sheet dually adjusted with payment received for the previous invoice				
4	Measurement Sheet				
5	Month wise PF/ESI challan copies				
6	Separate invoice for extra work/AHR items more than SOR quantity				
7	Approval of PMC and IGGL for extra work/AHR items if any				
8	Separate innovice shall be submitted for INR & USD portion				
9	State Wise bifurcation of innoviced amount (State & UTI), wherever applicable (for WCT purpose)				
10	Hard copy of Bill, INR portion (2 original +1 copies)				
11	Hard Copy of bill,USD portion (3 original+ 1 copy)				
12	Soft copy of Bill (Dully tallying with hard copy)				
13	Whether Bill amount/memorandum of payment is matching the amount in service entry sheet				
14	Whether bill has sent through BWS or not(attach BWS receipt)				
15	All the corrections made in the bill should be signed by PMC / IGGL authorized signatory				
16	All the bill documents made namely measurement sheets,bills should tally with the memorandum of payment				
17	SAP service entry sheet dually tallying with the abstract of payment				

FORMAT F-25
CHECKLIST FOR RUNNING BILLS

SL.No	Document Description	Annexure	Signature Of		
			Contractor	PMC	IGGL
(B) General Points					
1	(a) Copy of contractor all risk policy				
	(b) Validity of above exist or not				
2	(a) Free issue material (FIM) insurance copy				
	(b) Validity of above exists or not				
3	(a) Copy of indemnity bond for FIM				
	(b) Validity of above exist or not				
4	(a) Employee Insurance Policy				
	(b) Validity of above exist or not				
5	(a) Workman Compensation insurance policy				
	(b) Validity of above exist or not				
6	Copy of certificate issued by appropriate authority for lowering for lower /non -deduction of WCT/withholdingtax/TDS if applicable				
7	3 original letters of contractor mentioning details such as bank name ,address ,country ,account number and swift code (for foreign currency innovice) E-banking details should of SBI/ICICI/HDFC bank only				
8	(a) Copy of contrac PBG separetly for INR & foreign currency price				
	(b) Validity of above exist or not				
9	Contract agreement copy				
10	Power of attorny in the name of signatory of the bill /indemnity bond				
11	Copy of PAN umber of contractor				
12	Copy of Contract registration certificate with RBI in case of foreign contractor				
13	Copy of registration certificate of TIN/Tan of concerened state in which WOT is deducted & deposited				

NOTE :-

- 1 There will be signature of concerned contractor, PMC & IGGL representative in place
- 2 Cenvatalbe invoice, Memorandum of payment to be signed by IGGL Section In-charge & IGGL Construction Incharge
- 3 Abstract of Payment, measurement sheets are to be signed by IGGL Section Incharge/ his repersentative
- 4 IGGL spread in-charge / construction in-charge may also require to sign any other relevent documents as applicable from case to case.
- 5 NOC from sub-contractor, if any (deployed after getting approval from IGGL / PMC) regarding receipt of payment from contractor upto previous month.
- 6 In case of final bill contractor shall be required to submit NOC & Indemnity Bond and also NOC from sub-contractor about receipt of full payment from the contractor.
- 7 Copy of Hindrance register for the specified period (RA Bill period) dully signed by contractor /PMC/IGGL/ to be submitted alongwith RA Bill.

FOR CONTRACTOR

FOR PMC / IGGL

SECTION – IV
GENERAL CONDITION OF CONTRACTS –
WORKS (GCC-Works)



GENERAL CONDITIONS OF CONTRACT

FOR

WORKS

IGGL

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SECTION- I DEFINITIONS

1. Definition of Terms:

- 1.1 In this CONTRACT (as here-in-after defined) the following words and expressions shall have the meanings hereby assigned to them except where the context otherwise required.
- 1.1.1 The EMPLOYER/COMPANY/IGGL means IGGL., a public limited company, incorporated under the Company's act 2013 and having its registered office at 7th floor, NRL Centre, 122A, GS Road, Christian Basti, Guwahati, Assam and includes its successors and assigns.
- 1.1.2 The "CONTRACTOR" means the person or the persons, firm or Company or corporation whose tender has been accepted by the EMPLOYER and includes the CONTRACTOR's legal Representatives his successors and permitted assigns.
- 1.1.3 The ENGINEER/ENGINEER-IN-CHARGE" shall mean the person designated from time to time by the IGGL and shall include those who are expressly authorized by him to act for and on his behalf for operation of this CONTRACT.
- 1.1.4 The "WORK" shall mean and include all items and things to be supplied/done and services and activities to be performed by the CONTRACTOR in pursuant to and in accordance with CONTRACT or part thereof as the case may be and shall include all extra, additional, altered or substituted works as required for purpose of the CONTRACT.
- 1.1.5 The "PERMANENT WORK" means and includes works which will be incorporated in and form a part of the work to be handed over to the EMPLOYER by the CONTRACTOR on completion of the CONTRACT.
- 1.1.6 "CONSTRUCTION EQUIPMENT" means all appliances/equipment and things whatsoever nature for the use in or for the execution, completion, operation, or maintenance of the work or temporary works (as hereinafter defined) but does not include materials or other things intended to form or to be incorporated into the WORK, or camping facilities.
- 1.1.7 "CONTRACT DOCUMENTS" means collectively the Tender Documents, Designs, Drawings, Specification, Schedule of Quantities and Rates, Letter of Acceptance and agreed variations if any, and such other documents constituting the tender and acceptance thereof.
- 1.1.8 CONSULTANT: means _____ who are the consulting engineer to the Employer for this project and having registered office at -----
- 1.1.9 The "SUB-CONTRACTOR" means any person or firm or Company (other than the CONTRACTOR) to whom any part of the work has been entrusted by the CONTRACTOR, with the written consent of the ENGINEER-IN-CHARGE, and the legal representatives, successors and permitted assigns of such person, firm or company.

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- 1.1.10 The "CONTRACT" shall mean the Agreement between the EMPLOYER and the CONTRACTOR for the execution of the works including therein all Contract documents.
- 1.1.11 The "SPECIFICATION" shall mean all directions the various technical specifications, provisions attached and referred to the Tender Documents which pertain to the method and manner of performing the work or works to the quantities and qualities of the work or works and the materials to be furnished under the CONTRACT for the work or works, as may be amplified or modified by the IGGL or ENGINEER-IN-CHARGE during the performance of CONTRACT in order to provide the unforeseen conditions or in the best interests of the work or works. It shall also include the latest edition of relevant Standard Specifications including all addenda/corrigenda published before entering into CONTRACT.
- 1.1.12 The "DRAWINGS" shall include maps, plans and tracings or prints or sketches thereof with any modifications approved in writing by the ENGINEER-IN-CHARGE and such other drawing as may, from time to time, be furnished or approved in writing by the ENGINEER-IN-CHARGE.
- 1.1.13 The "TENDER" means the proposal along with supporting documents submitted by the CONTRACTOR for consideration by the EMPLOYER.
- 1.1.14 The "CHANGE ORDER" means an order given in writing by the ENGINEER-IN-CHARGE to effect additions to or deletion from and alteration in the works.
- 1.1.15 The "COMPLETION CERTIFICATE" shall mean the certificate to be issued by the ENGINEER-IN-CHARGE when the works have been completed entirely in accordance with CONTRACT DOCUMENT to his satisfaction.
- 1.1.16 The "FINAL CERTIFICATE" in relation to a work means the certificate regarding the satisfactory compliance of various provision of the CONTRACT by the CONTRACTOR issued by the ENGINEER-IN-CHARGE/EMPLOYER after the period of liability is over.
- 1.1.17 "DEFECT LIABILITY PERIOD" in relation to a work means the specified period from the date of COMPLETION CERTIFICATE upto the date of issue of FINAL CERTIFICATE during which the CONTRACTOR stands responsible for rectifying all defects that may appear in the works executed by the CONTRACTOR in pursuance of the CONTRACT and includes warranties against Manufacturing/Fabrication/ Erection/Construction defects covering all materials plants, equipment, components, and the like supplied by the CONTRACTOR, works executed against workmanship defects.
- 1.1.18 The "APPOINTING AUTHORITY" for the purpose of arbitration shall be the CHAIRMAN and MANAGING DIRECTOR or any other person so designated by the EMPLOYER.
- 1.1.19 "TEMPORARY WORKS" shall mean all temporary works of every kind required in or about the execution, completion or maintenance of works.

- 1.1.20 "PLANS" shall mean all maps, sketches and layouts as are incorporated in the CONTRACT in order to define broadly the scope and specifications of the work or works, and all reproductions thereof.
- 1.1.21 "SITE" shall mean the lands and other places on, under, in or through which the permanent works are to be carried out and any other lands or places provided by the EMPLOYER for the purpose of the CONTRACT.
- 1.1.22 "NOTICE IN WRITING OR WRITTEN NOTICE" shall mean a notice in written, typed or printed characters sent (unless delivered personally or otherwise proved to have been received by the addressee) by registered post to the latest known private or business address or registered office of the addressee and shall be deemed to have been received in the ordinary course of post it would have been delivered.
- 1.1.23 "APPROVED" shall mean approved in writing including subsequent written confirmation of previous verbal approval and "APPROVAL" means approval in writing including as aforesaid.
- 1.1.24 "LETTER OF INTENT/FAX OF INTENT" shall mean intimation by a Fax/Letter to Tenderer(s) that the tender has been accepted in accordance with the provisions contained in the letter.
- 1.1.25 "DAY" means a day of 24 hours from midnight to midnight irrespective of the number of hours worked in that day.
- 1.1.26 "WORKING DAY" means any day which is not declared to be holiday or rest day by the EMPLOYER.
- 1.1.27 "WEEK" means a period of any consecutive seven days.
- 1.1.28 "METRIC SYSTEM" - All technical documents regarding the construction of works are given in the metric system and all work in the project should be carried out according to the metric system. All documents concerning the work shall also be maintained in the metric system.
- 1.1.29 "VALUE OF CONTRACT" or "TOTAL CONTRACT PRICE" shall mean the sum accepted or the sum calculated in accordance with the prices accepted in tender and/or the CONTRACT rates as payable to the CONTRACTOR for the entire execution and full completion of the work, including change order.
- 1.1.30 "LANGUAGE FOR DRAWINGS AND INSTRUCTION" All the drawings, titles, notes, instruction, dimensions, etc. shall be in English Language.
- 1.1.31 "MOBILIZATION" shall mean establishment of sufficiently adequate infrastructure by the CONTRACTOR at "SITE" comprising of construction equipments, aids, tools tackles including setting of site offices with facilities such as power, water, communication etc. establishing manpower organisation comprising of Resident Engineers, Supervising personnel and an adequate strength of skilled, semi-skilled and un-skilled workers, who with the so established infrastructure shall be in a position to

commence execution of work at site(s), in accordance with the agreed Time Schedule of Completion of Work. "MOBILISATION" shall be considered to have been achieved, if the CONTRACTOR is able to establish infrastructure as per Time Schedule, where so warranted in accordance with agreed schedule of work implementation to the satisfaction of ENGINEER-IN-CHARGE/EMPLOYER.

1.1.32 "COMMISSIONING" shall mean pressing into service of the system including the plant(s), equipment(s), vessel(s), pipeline, machinery(ies), or any other section or sub-section of installation(s) pertaining to the work of the CONTRACTOR after successful testing and trial runs of the same.

"COMMISSIONING" can be either for a completed system or a part of system of a combination of systems or sub-systems and can be performed in any sequence as desired by EMPLOYER and in a manner established to be made suited according to availability of pre-requisites. Any such readjustments made by EMPLOYER in performance of "COMMISSIONING" activity will not be construed to be violating CONTRACT provisions and CONTRACTOR shall be deemed to have provided for the same.

SECTION-II GENERAL INFORMATION

2. General Information

2.1 a) Location of Site: The proposed location of Project site is defined in the Special Conditions of Contract.

b) Access by Road: CONTRACTOR, if necessary, shall build other temporary access roads to the actual site of construction for his own work at his own cost. The CONTRACTOR shall be required to permit the use of the roads so constructed by him for vehicles of any other parties who may be engaged on the project site. The CONTRACTOR shall also facilitate the construction of the permanent roads should the construction there of start while he is engaged on this work. He shall make allowance in his tender for any inconvenience he anticipates on such account.

Non-availability of access roads, railway siding and railway wagons for the use of the CONTRACTOR shall in no case condone any delay in the execution of WORK nor be the cause for any claim for compensation against the EMPLOYER.

2.2 Scope of Work: The scope of WORK is defined in the Technical Part of the tender document. The CONTRACTOR shall provide all necessary materials, equipment, labour etc. for the execution and maintenance of the WORK till completion unless otherwise mentioned in the Tender Document.

2.3 Water Supply: Contractor will have to make his own arrangements for supply of water to his labour camps and for works. All pumping installations, pipe net work and distribution system will have to be carried out by the Contractor at his own risk and cost.

Alternatively the Employer at his discretion may endeavour to provide water to the Contractor at the Employer's source of supply

provided the Contractor makes his own arrangement for the water meter which shall be in custody of the Employer and other pipe net works from source of supply and such distribution pipe network shall have prior approval of the Engineer-in-Charge so as not to interfere with the layout and progress of the other construction works. In such case, the rate for water shall be deducted from the running account bills.

However, the Employer does not guarantee the supply of water and this does not relieve the Contractor of his responsibility in making his own arrangement and for the timely completion of the various works as stipulated.

2.4 Power Supply:

2.4.1 Subject to availability, EMPLOYER will supply power at 400/440 V at only one point at the nearest sub-station, from where the CONTRACTOR will make his own arrangement for temporary distribution. The point of supply will not be more than 500 m away from the CONTRACTOR'S premises. All the works will be done as per the applicable regulations and passed by the ENGINEER-IN-CHARGE. The temporary line will be removed forthwith after the completion of work or if there is any hindrance caused to the other works due to the alignment of these lines, the CONTRACTOR will re-route or remove the temporary lines at his own cost. The CONTRACTOR at his cost will also provide suitable electric meters, fuses, switches, etc. for purposes of payment to the EMPLOYER which should be in the custody and control of the EMPLOYER. The cost of power supply shall be payable to the EMPLOYER every month for Construction Works power which would be deducted from the running account bills. The EMPLOYER shall not, however, guarantee the supply of electricity nor have any liability in respect thereof. No claim for compensation for any failure or short supply of electricity will be admissible.

2.4.2 It shall be the responsibility of the CONTRACTOR to provide and maintain the complete installation on the load side of the supply with due regard to safety requirement at site. All cabling, equipment, installations etc. shall comply in all respects with the latest statutory requirements and safety provisions i.e., as per the Central/State Electricity Acts and Rules etc. The CONTRACTOR will ensure that his equipment and Electrical Wiring etc., are installed, modified, maintained by a licensed Electrician/Supervisor. A test certificate is to be produced to the ENGINEER-IN-CHARGE for his approval, before power is made available.

2.4.3 At all times, IEA regulations shall be followed failing which the EMPLOYER has a right to disconnect the power supply without any reference to the CONTRACTOR. No claim shall be entertained for such disconnection by the ENGINEER-IN-CHARGE. Power supply will be reconnected only after production of fresh certificate from authorized electrical supervisors.

2.4.4 The EMPLOYER is not liable for any loss or damage to the CONTRACTOR's equipment as a result of variation in voltage or frequency or interruption in power supply or other loss to the CONTRACTOR arising therefrom.

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- 2.4.5 The CONTRACTOR shall ensure that the Electrical equipment installed by him are such that average power factors does not fall below 0.90 at his premises. In case power factor falls below 0.90 in any month, he will reimburse to the EMPLOYER at the penal rate determined by the EMPLOYER for all units consumed during the month.
- 2.4.6 The power supply required for CONTRACTOR's colony near the plant site will be determined by the EMPLOYER and shall be as per State Electricity Board's Rules and other statutory provisions applicable for such installations from time to time. In case of power supply to CONTRACTOR's colony, the power will be made available at a single point and the CONTRACTOR shall make his own arrangement at his own cost for distribution to the occupants of the colony as per Electricity Rules and Acts. The site and colony shall be sufficiently illuminated to avoid accidents.
- 2.4.7 The CONTRACTOR will have to provide and install his own lights and power meters which will be governed as per Central/State Government Electricity Rules. The metres shall be sealed by the EMPLOYER.
- 2.4.8 In case of damage of any of the EMPLOYER's equipment on account of fault, intentional or unintentional on the part of the CONTRACTOR, the EMPLOYER reserves the right to recover the cost of such damage from the CONTRACTOR's bill. Cost of HRC Fuses replaced at the EMPLOYER's terminals due to any fault in the CONTRACTOR's installation shall be to CONTRACTOR's account at the rates decided by the ENGINEER-IN-CHARGE.
- 2.4.9 Only motors upto 3 HP will be allowed to be started direct on line. For motors above 3 HP and upto 100 HP a suitable Starting device approved by the ENGINEER- IN-CHARGE shall be provided by the CONTRACTOR. For motors above 100 HP slipring induction motors with suitable starting devices as approved by the ENGINEER- IN-CHARGE shall be provided by the CONTRACTOR.
- 2.4.10 The CONTRACTOR shall ensure at his cost that all electrical lines and equipment and all installations are approved by the State Electricity Inspector before power can be supplied to the EMPLOYER.
- 2.4.11 The total requirement of power shall be indicated by the tenderer alongwith his tender.
- 2.5 Land for Contractor's Field Office, Godown and Workshop: The EMPLOYER will, at his own discretion and convenience and for the duration of the execution of the work make available near the site, land for construction of CONTRACTOR's Temporary Field Office, godowns workshops and assembly yard required for the execution of the CONTRACT. The CONTRACTOR shall at his own cost construct all these temporary buildings and provide suitable water supply and sanitary arrangement and get the same approved by the ENGINEER-IN-CHARGE.

On completion of the works undertaken by the CONTRACTOR, he shall remove all temporary works erected by him and have the SITE cleaned as directed by ENGINEER-IN-CHARGE. If the

CONTRACTOR shall fail to comply with these requirements, the ENGINEER-IN-CHARGE may at the expenses of the CONTRACTOR remove such surplus, and rubbish materials and dispose off the same as he deems fit and get the site cleared as aforesaid; and CONTRACTOR shall forthwith pay the amount of all expenses so incurred and shall have no claim in respect of any such surplus materials disposed off as aforesaid. But the EMPLOYER reserves the right to ask the CONTRACTOR any time during the pendency of the CONTRACT to vacate the land by giving 7 days notice on security reasons or on national interest or otherwise. Rent may be charged for the land so occupied from contractor by the Employer.

The CONTRACTOR shall put up temporary structures as required by them for their office, fabrication shop and construction stores only in the area allocated to them on the project site by the EMPLOYER or his authorised representative. No tea stalls/canteens should be put up or allowed to be put up by any CONTRACTOR in the allotted land or complex area without written permission of the EMPLOYER.

No unauthorised buildings, constructions or structures should be put up by the CONTRACTOR anywhere on the project site.

For uninterrupted fabrication work, the CONTRACTOR shall put up temporary covered structures at his cost within Area in the location allocated to them in the project site by the EMPLOYER or his authorised representative.

No person except for authorised watchman shall be allowed to stay in the plant area/CONTRACTOR's area after completion of the day's job without prior written permission from ENGINEER-IN-CHARGE.

- 2.6 Land for Residential Accommodation:-No Land shall be made available for residential accommodation for staff and labour of CONTRACTOR.

SECTION-III GENERAL INSTRUCTIONS TO TENDERERS

- 3. Submission of Tender:**
- 3.1 TENDER must be submitted without making any additions, alterations, and as per details given in other clauses hereunder. The requisite details shall be filled in by the TENDERER at space provided under "Submission of Tender at the beginning of GCC of Tender Document. The rate shall be filled only in the schedule given in this Tender Document.
 - 3.2 Addenda/Corrigenda to this Tender Document, if issued, must be signed, submitted alongwith the Tender Document. The tenderer should write clearly the revised quantities in Schedule of Rates of Tender Document and should price the WORK based on revised quantities when amendments of quantities are issued in addenda.
 - 3.3 Covering letter alongwith its enclosures accompanying the Tender Document and all further correspondence shall be submitted in duplicate.

- 3.4 Tenderers are advised to submit quotations based strictly on the terms and conditions and specifications contained in the Tender Documents and not to stipulate any deviations.

Tenders should always be placed in double sealed covers, superscribing ["QUOTATION DO NOT OPEN" Tender for _____ Project of IGGL due for opening on _____]. The *Full Name, Address and Telegraphic Address, Fax No. Of the Tenderers* shall be written on the bottom left hand corner of the sealed cover.

4. Documents:

4.1 General:

The tenders as submitted, will consist of the following:

- i) Complete set of Tender Documents (Original) as sold duly filled in and signed by the tenderer as prescribed indifferent clauses of the Tender Documents.
- ii) Earnest money in the manner specified in Clause 6 hereof.
- iii) Power of Attorney or a true copy thereof duly attested by a Gazetted Officer in case an authorised representative has signed the tender, as required by Clause 14 hereof.
- iv) Information regarding tenderers in the proforma enclosed.
- v) Details of work of similar type and magnitude carried out by the Tenderer in the proforma provided in the tender document.
- vi) Organisation chart giving details of field management at site, the tenderer proposes to have for this job.
- vii) Details of construction plant and equipments available with the tenderer for using in this work.
- viii) Solvency Certificate from Scheduled Bank to prove the financial ability to carry out the work tendered for.
- ix) Latest Balance Sheet and Profit & Loss Account duly audited.
- x) Details of present commitment as per proforma enclosed to tender.
- xi) Data required regarding SUB-CONTRACTOR(s)/ Supplier/ Manufacturers and other technical informations the tenderer wish to furnish.
- xii) Provident fund registration certificate
- xiii) List showing all enclosures to tender.

- 4.2 All pages are to be Initiated: All signatures in Tender Documents shall be dated, as well as, all the pages of all sections of Tender Documents shall be initialed at the lower right hand corner and signed wherever required in the tender papers by the TENDERER

or by a person holding power of attorney authorising him to sign on behalf of the tenderer before submission of tender.

- 4.3 Rates to be in Figures and Words: The tender should quote in English both in figures as well as in words the rates and amounts tendered by him in the Schedule of Rates of Tender submitted by the CONTRACTOR for each item and in such a way that interpolation is not possible. The amount for each item should be worked out and entered and requisite total given of all items, both in figures and in words. The tendered amount for the work shall be entered in the tender and duly signed by the Tenderer.

If some discrepancies are found between the RATES in FIGURES and WORDS or the AMOUNT shown in the tender, the following procedure shall be followed:

- a) When there is difference between the rates in figures and words, the rate which corresponds to the amount worked out by the tenderer shall be taken as correct.
- b) When the rate quoted by the tenderer in figures and words tally but the amount is incorrect the rate quoted by the tenderer shall be taken as correct.
- c) When it is not possible to ascertain the correct rate by either of above methods, the rate quoted in words shall be taken as correct.

- 4.4 Corrections and Erasures: All correction(s) and alteration(s) in the entries of tender paper shall be signed in full by the TENDERER with date. No erasure or over writing is permissible.

- 4.5 Signature of Tenderer:

- 4.5.1 The TENDERER shall contain the name, residence and place of business of person or persons making the tender and shall be signed by the TENDERER with his usual signature. Partnership firms shall furnish the full names of all partners in the tender. It should be signed in the partnership's name by all the partners or by duly authorised representatives followed by the name and designation of the person signing. Tender by a corporation shall be signed by an authorised representative, and a Power of Attorney in that behalf shall accompany the tender. A copy of the constitution of the firm with names of all partners shall be furnished.

- 4.5.2 When a tenderer signs a tender in a language other than English, the total amount tendered should, in addition, be written in the same language. The signature should be attested by at least one witness.

- 4.6 Witness: Witness and sureties shall be persons of status and property and their names, occupation and address shall be stated below their signature.

- 4.7 Details of Experience: The tenderer should furnish, alongwith his tender, details of previous experience in having successfully completed in the recent past works of this nature, together with the names of Employers, location of sites and value of contract, date

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of commencement and completion of work, delays if any, reasons of delay and other details alongwith documentary evidence(s).

- 4.8 Liability of Government of India: It is expressly understood and agreed by and between Bidder or/Contractor and M/s IGGL, and that M/s IGGL., is entering into this agreement solely on its own behalf and not on behalf of any other person or entity. In particular, it is expressly understood and agreed that the Government of India is not a party to this agreement and has no liabilities, obligations or rights hereunder. It is expressly understood and agreed that M/s IGGL. is an independent legal entity with power and authority to enter into contracts solely on its own behalf under the applicable Laws of India and general principles of Contract Law. The Bidder/Contractor expressly agrees, acknowledges and understands that M/s IGGL. 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 contract. Accordingly, Bidder/Contractor hereby expressly waives, releases and foregoes any and all actions or claims, including cross claims, impleader claims or counter claims against the Government of India arising out of this contract and covenants not to sue to Government of India as to any manner, claim, cause of action or thing whatsoever arising of or under this agreement.

5. Transfer of Tender Documents:

- 5.1 Transfer of Tender Documents purchased by one intending tenderer to another is not permissible.

6. Earnest Money:

- 6.1 The bidder must pay Earnest Money as given in the letter/notice Inviting tenders and attach the official receipt with the tender failing which the tender is liable to be rejected and representatives of such tenderers will not be allowed to attend the tender opening. Earnest Money can be paid in Demand Drafts or Bank Guarantee or Banker's Cheque or Letter of Credit 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, other than the Nationalised Indian Banks, the banks whose BGs are furnished, must be commercial banks 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 a letter head.

The bid guarantee shall be submitted in the prescribed format.

Note: The Bank Guarantee so furnished by the tenderer shall be in the proforma prescribed by the EMPLOYER. No interest shall be paid by the EMPLOYER on the Earnest Money deposited by the tenderer. The Bank Guarantee furnished in lieu of Earnest Money shall be kept valid for a period of "SIX MONTHS" from the date of opening of tender. (TWO MONTHS beyond the bid validity).

The Earnest Money deposited by successful tenderer shall be forfeited if the Contractor fails to furnish the requisite Contract Performance Security as per clause 24 hereof and /or fails to start work within a period of 15 days or fails to execute the AGREEMENT within 15 days of the receipt by him of the Notification of Acceptance of Tender.

Note: The Earnest Money of the unsuccessful bidder will be returned by EMPLOYER/CONSULTANT, directly to the tenderer (s), within a reasonable period of time but not later than 30 days after the expiration of the period of bid validity prescribed by EMPLOYER.

7 Validity:	7.1 Tender submitted by tenderers shall remain valid for acceptance for a period of "03 MONTHS" from the date of opening of the tender. The tenderers shall not be entitled during the said period of 4 months, without the consent in writing of the EMPLOYER, to revoke or cancel his tender or to vary the tender given or any term thereof. In case of tender revoking or canceling his tender or varying any term in regard thereof without the consent of EMPLOYER in writing, the EMPLOYER shall forfeit Earnest Money paid by him alongwith tender.
8 Addenda/Corrigenda	8.1 Addenda/ Corrigenda to the Tender Documents will be issued in duplicate prior to the date of opening of the tenders to clarify documents or to reflect modification in design or CONTRACT terms. 8.2 Each addenda/ corrigendum issued will be issued in duplicate to each person or organisation to whom set of Tender Documents has been issued. Recipient will retain tenderer's copy of each Addendum/Corrigendum and attach original copy duly signed along with his offer. All Addenda/Corrigenda issued shall become part of Tender Documents.
9 Right of Employer to Accept or Reject Tender:	9.1 The right to accept the tender will rest with the EMPLOYER. The EMPLOYER, however, does not bind himself to accept the lowest tender, and reserves to itself the authority to reject any or all the tenders received without assigning any reason whatsoever. At the option of the Employer, the work for which the tender had been invited, may be awarded to one Contractor or split between more than one bidders, in which case the award will be made for only that part of the work, in respect of which the bid has been accepted. The quoted rates should hold good for such eventualities. Tenders in which any of the particulars and prescribed information are missing or are incomplete in any respect and/or the prescribed conditions are not fulfilled are liable to be rejected. The Tender containing uncalled for remarks or any additional conditions are liable to be rejected. Canvassing in connection with tenders is strictly prohibited and tenders submitted by the Tenderers who resort to canvassing will be liable to rejection.
10 Time Schedule	10.1 The WORK shall be executed strictly as per the TIME SCHEDULE specified in TENDER/CONTRACT Document. The period of construction given in Time Schedule includes the time required for mobilisation as well as testing, rectifications if any, retesting and completion in all respects to the entire satisfaction of the ENGINEER-IN- CHARGE.

	10.2	A joint programme of execution of the WORK will be prepared by the ENGINEER-IN-CHARGE and CONTRACTOR based on priority requirement of this project. This programme will take into account the time of completion mentioned in 10.1 above and the time allowed for the priority works by the ENGINEER-IN-CHARGE.
	10.3	Monthly/Weekly construction programme will; be drawn up by the ENGINEER- IN-CHARGE jointly with the CONTRACTOR, based on availability of work fronts and the joint construction programme as per 10.2 above. The CONTRACTOR shall scrupulously adhere to these targets /programmes by deploying adequate personnel, construction tools and tackles and he shall also supply himself all materials of his scope of supply in good time to achieve the targets/programmes. In all matters concerning the extent of targets set out in the weekly and monthly programmes and the degree of achievements the decision of the ENGINEER-IN-CHARGE will be final and binding on the CONTRACTOR.
11 Tenderer's Responsibility	11.1	The intending tenderers shall be deemed to have visited the SITE and familiarised submitting the tender. Non-familiarity with the site conditions will not be considered a reason either for extra claims or for not carrying out the works in strict conformity with the DRAWINGS and SPECIFICATIONS or for any delay in performance.
12 Retired Government or Company Officers	12.1	No Engineer of Gazetted rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the States/ Central Government or of the EMPLOYER is allowed to work as a CONTRACTOR for a period of two years after his retirement from Government Service, or from the employment of the EMPLOYER without the previous permission of the EMPLOYER. The CONTRACT, if awarded, is liable to be cancelled if either the CONTRACTOR or any of his employees is found at any time to be such a person, who has not obtained the permission of the State/Central Government or of the EMPLOYER as aforesaid before submission of tender, or engagement in the CONTRACTOR'S service as the case may be.
13 Signing of the Contract:	13.1	The successful tenderer shall be required to execute an AGREEMENT in the proforma attached with TENDER DOCUMENT within 15 days of the receipt by him of the Notification of Acceptance of Tender. In the event of failure on the part of the successful tenderer to sign the AGREEMENT within the above stipulated period, the Earnest Money or his initial deposit will be forfeited and the acceptance of the tender shall be considered as cancelled.
14 Field Management & Controlling/Coordinating Authority:	14.1	The field management will be the responsibility of the ENGINEER-IN-CHARGE, who will be nominated by the EMPLOYER. The ENGINEER-IN-CHARGE may also authorise his representatives to assist in performing his duties and functions.
	14.2	The ENGINEER-IN-CHARGE shall coordinate the works of various agencies engaged at site to ensure minimum disruption of work carried out by different agencies. It shall be the responsibility of the CONTRACTOR to plan and execute the work strictly in accordance with site instructions to avoid hindrance to the work being executed by other agencies.

15 Note to Schedule of Rates:

- 15.1 The Schedule of Rates should be read in conjunction with all the other sections of the tender.
- 15.2 The tenderer shall be deemed to have studied the DRAWINGS, SPECIFICATIONS and details of work to be done within TIME SCHEDULE and to have acquainted himself of the condition prevailing at site.
- 15.3 Rates must be filled in the Schedule of Rates of original Tender Documents. If quoted in separate typed sheets no variation in item description or specification shall be accepted. Any exceptions taken by the tenderer to the Schedule of Rates shall be brought out in the terms and conditions of the offer.
- 15.4 The quantities shown against the various items are only approximate. Any increase or decrease in the quantities shall not form the basis of alteration of the rates quoted and accepted.
- 15.5 The EMPLOYER reserves the right to interpolate the rates for such items of work falling between similar items of lower and higher magnitude.

16 Policy for Tenders Under Consideration:

- 16.1 Only Those Tenders which are complete in all respects and are strictly in accordance with the Terms and Conditions and Technical Specifications of Tender Document, shall be considered for evaluation. Such Tenders shall be deemed to be under consideration immediately after opening of Tender and until such time an official intimation of acceptance /rejection of Tender is made by IGGL to the Bidder.
- 16.2 Zero Deviation: Bidders to note that this is a ZERO DEVIATION TENDER. IGGL will appreciate submission of offer based on the terms and conditions in the enclosed General Conditions of Contract (GCC), Special Conditions of Contract (SCC), Instructions to Bidders (ITB), Scope of Work, technical specifications etc. to avoid wastage of time and money in seeking clarifications on technical/ commercial aspects of the offer. Bidder may note that no technical and commercial clarifications will be sought for after the receipt of the bids. In case of any deviation/non conformity observed in the bid, it will be liable for rejection.

17 Award of Contract:

- 17.1 The Acceptance of Tender will be intimated to the successful Tenderer by IGGL either by Telex/ Telegram/ Fax or by Letter or like means-defined as LETTER OF ACCEPTANCE OF TENDER.
- 17.2 IGGL will be the sole judge in the matter of award of CONTRACT and the decision of IGGL shall be final and binding.

18 Clarification of Tender Document:

- 18.1 The Tender is required to carefully examine the Technical Specifications, Conditions of Contract, Drawings and other details relating to WORK and given in Tender Document and fully inform himself as to all conditions and matters which may in any way affect the WORK or the cost thereof. In case the Tenderer is in doubt about the completeness or correctness of any of the contents of the Tender Documents he should request in writing for an interpretation/clarification to IGGL in triplicate. IGGL will then



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issue interpretation/clarification to Tenderer in writing. Such clarifications and or interpretations shall form part of the Specifications and Documents and shall accompany the tender which shall be submitted by tenderer within time and date as specified in invitations to tender.

- 18.2 Verbal clarification and information given by IGGL or its employee(s) or its representatives shall not in any way be binding on IGGL.

19 Local Conditions:

- 19.1 It will be imperative on each tenderer to inform himself of all local conditions and factors which may have any effect on the execution of WORK covered under the Tender Document. In their own interest, the tenderer are requested to familiarise themselves with the Indian Income Tax Act 1961, Indian Companies Act 1956, Indian Customs Act 1962 and other related Acts and Laws and Regulations of India with their latest amendments, as applicable IGGL shall not entertain any requests for clarifications from the tenderer regarding such local conditions.
- 19.2 It must be understood and agreed that such factors have properly been investigated and considered while submitting the tender. No claim for financial or any other adjustments to VALUE OF CONTRACT, on lack of clarity of such factors shall be entertained.

20 Abnormal Rates:

- 20.1 The tenderer is expected to quote rate for each item after careful analysis of cost involved for the performance of the completed item considering all specifications and Conditions of Contract. This will avoid loss of profit or gain in case of curtailment or change of specification for any item. In case it is noticed that the rates quoted by the tenderer for any item are unusually high or unusually low, it will be sufficient cause for the rejection of the tender unless the EMPLOYER is convinced about the reasonableness after scrutiny of the analysis for such rate(s) to be furnished by the tenderer (on demand).

SECTION-IV

GENERAL OBLIGATIONS

21 Priority of Contract Documents

- 21.1 Except if and the extent otherwise provided by the Contract, the provisions of the General Conditions of Contract and Special Conditions shall prevail over those of any other documents forming part of the CONTRACT. Several documents forming the CONTRACT are to be taken as mutually explanatory of one another, but in case of ambiguities or discrepancies the same shall be explained and adjusted by the ENGINEER-IN-CHARGE who shall thereupon issue to the Contractor instructions thereon and in such event, unless otherwise provided in the Contract, the priority of the documents forming the Contract shall be as follows:
- 1) The Contract Agreement;
 - 2) The Letter of Acceptance;
 - 3) The (Instructions to Bidders) ITB;
 - 4) Special Conditions of Contract (SCC);
 - 5) General Conditions of Contract (GCC)
 - 6) Any other document forming part of the Contract.



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Works shown in the DRAWING but not mentioned in the SPECIFICATIONS OR described in the SPECIFICATIONS without being shown in the DRAWINGS shall nevertheless be deemed to be included in the same manner as if they had been specifically shown upon the DRAWINGS and described in the SPECIFICATIONS.

- 21.2 Headings and Marginal Notes: All headings and marginal notes to the clauses of these General Conditions of Contract or to the SPECIFICATIONS or to any other Tender Document are solely for the purpose of giving a concise indication and not a summary of the contents thereof, and they shall never be deemed to be part thereof or be used in the interpretation or construction thereof the CONTRACT.
- 21.3 Singular and Plural: In CONTRACT DOCUMENTS unless otherwise stated specifically, the singular shall include the plural and vice versa wherever the context so requires.
- 21.4 Interpretation: Words implying 'Persons' shall include relevant 'Corporate Companies / Registered Associations/ Body of Individuals/ Firm of Partnership' as the case may be.
- 22 Special Conditions of Contract:**
- 22.1 Special Conditions of Contract shall be read in conjunction with the General Conditions of Contract, specification of Work, Drawings and any other documents forming part of this CONTRACT wherever the context so requires.
- 22.2 Notwithstanding the sub-division of the documents into these separate sections and volumes every part of each shall be deemed to be supplementary to and complementary of every other part and shall be read with and into the CONTRACT so far as it may be practicable to do so.
- 22.3 Where any portion of the General Condition of Contract is repugnant to or at variance with any provisions of the Special Conditions of Contract, unless a different intention appears the provisions of the Special Conditions of Contract shall be deemed to over-ride the provisions of the General Conditions of Contract and shall to the extent of such repugnancy, or variations, prevail.
- 22.4 Wherever it is mentioned in the specifications that the CONTRACTOR shall perform certain WORK or provide certain facilities, it is understood that the CONTRACTOR shall do so at his cost and the VALUE OF CONTRACT shall be deemed to have included cost of such performance and provisions, so mentioned.
- 22.5 The materials, design and workmanship shall satisfy the relevant INDIAN STANDARDS, the JOB SPECIFICATIONS contained herein and CODES referred to. Where the job specification stipulate requirements in addition to those contained in the standard codes and specifications, these additional requirements shall also be satisfied.
- 23. Contractor to obtain his own Information:**
- 23.1 The CONTRACTOR in fixing his rate shall for all purpose whatsoever reason may be, deemed to have himself independently obtained all necessary information for the purpose of preparing his tender and his tender as accepted shall be deemed to have taken into account all contingencies as may arise

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due to such information or lack of same. The correctness of the details, given in the Tender Document to help the CONTRACTOR to make up the tender is not guaranteed.

The CONTRACTOR shall be deemed to have examined the CONTRACT DOCUMENTS, to have generally obtained his own information in all matters whatsoever that might affect the carrying out of the works at the scheduled rates and to have satisfied himself to the sufficiency of his tender. Any error in description of quantity or omission therefrom shall not vitiate the CONTRACT or release the CONTRACTOR from executing the work comprised in the CONTRACT according to DRAWINGS and SPECIFICATIONS at the scheduled rates. He is deemed to have known the scope, nature and magnitude of the WORKS and the requirements of materials and labour involved etc., and as to what all works he has to complete in accordance with the CONTRACT documents whatever be the defects, omissions or errors that may be found in the DOCUMENTS. The CONTRACTOR shall be deemed to have visited surroundings, to have satisfied himself to the nature of all existing structures, if any, and also as to the nature and the conditions of the Railways, Roads, Bridges and Culverts, means of transport and communication, whether by land, water or air, and as to possible interruptions thereto and the access and egress from the site, to have made enquiries, examined and satisfied himself as to the sites for obtaining sand, stones, bricks and other materials, the sites for disposal of surplus materials, the available accommodation as to whatever required, depots and such other buildings as may be necessary for executing and completing the works, to have made local independent enquiries as to the sub-soil, subsoil water and variations thereof, storms, prevailing winds, climatic conditions and all other similar matters effecting these works. He is deemed to have acquainted himself as to his liability of payment of Government Taxes, Customs duty and other charges, levies etc.

Any neglect or omission or failure on the part of the CONTRACTOR in obtaining necessary and reliable information upon the foregoing or any other matters affecting the CONTRACT shall not relieve him from any risks or liabilities or the entire responsibility from completion of the works at the scheduled rates and times in strict accordance with the CONTRACT.

It is, therefore, expected that should the CONTRACTOR have any doubt as to the meaning of any portion of the CONTRACT DOCUMENT he shall set forth the particulars thereof in writing to EMPLOYER in duplicate, before submission of tender. The EMPLOYER may provide such clarification as may be necessary in writing to CONTRACT, such clarifications as provided by EMPLOYER shall form part of CONTRACT DOCUMENTS.

No verbal agreement or inference from conversation with any effect or employee of the EMPLOYER either before, during or after the execution of the CONTRACT agreement shall in any way affect or modify and of the terms or obligations herein contained.

Any change in layout due to site conditions or technological requirement shall be binding on the CONTRACTOR and no extra claim on this account shall be entertained.

24 Contract Performance Security:

24.1 The CONTRACTOR shall furnish to the EMPLOYER, within 30 days from the date of notification of award, a security in the sum of 10% of the accepted value of the tender or the actual value of work to be done whichever is applicable due to any additional work or any other reasons, in the form of a Bank draft/Banker's cheque or Bank Guarantee or irrevocable Letter of credit (as per proforma enclosed) as Contract Performance Security with the EMPLOYER which will be refunded after the expiry of DEFECTS LIABILITY PERIOD.

24.2 CONTRACTOR can furnish the Contract Performance Security in the form of Demand Draft, Banker's cheque, Insurance security Bond, Fixed deposit receipt or through a Bank Guarantee or through an irrevocable Letter of Credit 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, other than the Nationalised Indian Banks, the banks whose BGs are furnished, must be commercial banks 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 a letter head.

The bank guarantee or the Letter of Credit shall be submitted in the prescribed format.

24.3 If the CONTRACTOR/SUB-CONTRACTOR or their employees or the CONTRACTOR's agents and representatives shall damage, break, deface or destroy any property belonging to the EMPLOYER or others during the execution of the CONTRACT, the same shall be made good by the CONTRACTOR at his own expenses and in default thereof, the ENGINEER-IN-CHARGE may cause the same to be made good by other agencies and recover expenses from the CONTRACTOR (for which the certificate of the ENGINEER- IN-CHARGE shall be final).

24.4 All compensation or other sums of money payable by the CONTRACTOR to the EMPLOYER under terms of this CONTRACT may be deducted from or paid by the encashment or sale of a sufficient part of his Contract Performance Security or from any sums which may be due or may become due to the CONTRACTOR by the EMPLOYER of any account whatsoever and in the event of his Contract Performance Security being reduced by reasons of any such deductions or sale of aforesaid, the CONTRACTOR shall within ten days thereafter make good in cash, bank drafts as aforesaid any sum or sums which may have been deducted from or realised by sale of his Contract Performance Security, or any part thereof. No interest shall be payable by the EMPLOYER for sum deposited as Contract Performance Security.

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

25 Time of Performance:

25.1 Time for Mobilisation

The work covered by this CONTRACT shall be commenced within fifteen (15) days, the date of letter/Fax of Intent and be completed in stages on or before the dates as mentioned in the TIME SCHEDULE OF COMPLETION OF WORK. The CONTRACTOR should bear in mind that time is the essence of this agreement. Request for revision of construction time after tenders are opened

will not receive consideration. The above period of fifteen (15) days is included within the overall COMPLETION SCHEDULE, not over and above the completion time to any additional work or any other reasons.

25.2 Time Schedule of Construction:

25.2.1 The general Time Schedule of construction is given in the TENDER DOCUMENT. CONTRACTOR should prepare a detailed monthly or weekly construction program jointly with the ENGINEER-IN-CHARGE within 15 days of receipt of LETTER/FAX OF INTENT or ACCEPTANCE OF TENDER. The WORK shall be executed strictly as per the Time Schedule given in the CONTRACT DOCUMENT. The period of construction given includes the time required for mobilisation testing, rectifications, if any, retesting and completion in all respects in accordance with CONTRACT DOCUMENT to the entire satisfaction of the ENGINEER-IN-CHARGE.

25.2.2 The CONTRACTOR shall submit a detailed PERT network within the time frame agreed above consisting of adequate number of activities covering various key phases of the WORK such as design, procurement, manufacturing, shipment and field erection activities within fifteen (15) days from the date of LETTER/FAX OF INTENT. This network shall also indicate the interface facilities to be provided by the EMPLOYER and the dates by which such facilities are needed.

25.2.3 CONTRACTOR shall discuss the network so submitted with the EMPLOYER and the agreed network which may be in the form as submitted with the EMPLOYER or in revised form in line with the outcome of discussions shall form part of the CONTRACT, to be signed within fifteen (15) days from the date of LETTER OF ACCEPTANCE OF TENDER. During the performance of the CONTRACT, if in the opinion of the EMPLOYER proper progress is not maintained suitable changes shall be made in the CONTRACTOR's operation to ensure proper progress.

The above PERT network shall be reviewed periodically and reports shall be submitted by the CONTRACTOR as directed by EMPLOYER.

26 Force Majeure:

26.1 CONDITIONS FOR FORCE MAJEURE

In the event of either party being rendered unable by Force Majeure to perform any obligations required to be performed by them under the CONTRACT the relative obligation of the party affected by such Force Majeures shall upon notification to the other party be suspended for the period during which Force Majeures event lasts. The cost and loss sustained by the either party shall be borne by the respective parties.

The term "Force Majeures" as employed herein shall mean acts of God, earthquake, war (declared or undeclared), revolts, riots, fires, floods, rebellions, explosions, hurricane, sabotage, civil commotions and acts and regulations of respective Government of the two parties, namely the EMPLOYER and the CONTRACTOR.

Upon the occurrence of such cause(s) and upon its termination, the party alleging that it has been rendered unable as aforesaid thereby, shall notify the other party in writing immediately but not later than 72 (Seventy-two) hours of the alleged beginning and ending thereof giving full particulars and satisfactory evidence in support of its claim.

Time for performance of the relative obligation suspended by the Force Majeures shall then stand extended by the period for which such cause lasts.

If deliveries of bought out items and/or works to be executed by the CONTRACTOR are suspended by Force Majeure conditions lasting for more than 2 (two) months the EMPLOYER shall have the option to terminate the CONTRACT or re-negotiate the contract provisions.

26.2 OUTBREAK OF WAR

26.2.1 If during the currency of the CONTRACT there shall be an outbreak of war whether declared or not, in that part of the World which whether financially or otherwise materially affect the execution of the WORK the CONTRACTOR shall unless and until the CONTRACT is terminated under the provisions in this clause continue to use his best endeavour to complete the execution of the WORK, provided always that the EMPLOYER shall be entitled, at any time after such out-break of war to terminate or re-negotiate the CONTRACT by giving notice in writing to the CONTRACTOR and upon such notice being given the CONTRACT shall, save as to the rights of the parties under this clause and to the operation of the clauses entitled settlement of Disputes and Arbitration hereof, be terminated but without prejudice to the right of either party in respect of any antecedent breach thereof.

26.2.2 If the CONTRACT shall be terminated under the provisions of the above clause, the CONTRACTOR shall with all reasonable diligence remove from the SITE all the CONTRACTOR's equipment and shall give similar facilities to his SUB-CONTRACTORS to do so.

27 **Price reduction schedule:**

27.1 Time is the essence of the CONTRACT. In case the CONTRACTOR fails to complete the WORK within the stipulated period, then, unless such failure is due to Force Majeure as defined in Clause 26 here above or due to EMPLOYER's defaults, the Total Executed price shall be reduced by ½ % of the total Executed Price per complete week of delay or part thereof subject to a maximum of 5 % of the Total Executed Price, by way of reduction in price for delay and not as penalty. The said amount will be recovered from amount due to the Contractor/ Contractor's Contract Performance Security payable on demand.

The decision of the ENGINEER-IN-CHARGE in regard to applicability of Price Reduction Schedule shall be final and binding on the CONTRACTOR.

27.2 All sums payable under this clause is the reduction in price due to delay in completion period at the above agreed rate.

27.3 Bonus For Early Completion(*)

27.3 BONUS FOR EARLY COMPLETION

If the Contractor achieves completion of Works in all respect prior to the time schedule stipulated in the SCC, the Employer shall pay to the Contractor the relevant sum, if mentioned specifically in SCC, as bonus for early completion. The bonus for early completion, if provided specifically in SCC, shall be payable to the maximum ceiling of 2 ½ % of the total contract price.

(*) Partial earlier completion may not always produce net benefits to the Employer, for example where utilization of the completed Works requires (a) the fulfillment of all parts of the Contract (e.g. the training of personnel); or (b) the completion of all Sections (e.g. in pipeline laying, where early completion of the laying of pipeline would not be useful if the compressor is still under installation); or (c) certain seasonal effects to take place (e.g. onset of the rainy season, for impounding a reservoir); or (d) other circumstances. Also a more rapid drawdown of budgeted funds may be required. All such factors should be considered prior to the inclusion of a bonus clause in the Contract.

28 Rights of the employer to forfeit contract performance security:

28.1 Whenever any claim against the CONTRACTOR for the payment of a sum of money arises out or under the CONTRACT, the EMPLOYER shall be entitled to recover such sum by appropriating in part or whole the Contract Performance Security of the CONTRACTOR. In the event of the security being insufficient or if no security has been taken from the CONTRACTOR, then the balance or the total sum recoverable, as the case may be shall be deducted from any sum then due or which at any time thereafter may become due to the CONTRACTOR shall pay to the EMPLOYER on demand any balance remaining due.

29 Failure by the contractor to comply with the provisions of the contract:

29.1 If the CONTRACTOR refuses or fails to execute the WORK or any separate part thereof with such diligence as will ensure its completion within the time specified in the CONTRACT or extension thereof or fails to perform any of his obligation under the CONTRACT or in any manner commits a breach of any of the provisions of the CONTRACT it shall be open to the EMPLOYER at its option by written notice to the CONTRACTOR:

a) TO DETERMINE THE CONTRACT in which event the CONTRACT shall stand terminated and shall cease to be in force and effect on and from the date appointed by the EMPLOYER on that behalf, whereupon the CONTRACTOR shall stop forthwith any of the CONTRACTOR's work then in progress, except such WORK as the EMPLOYER may, in writing, require to be done to safeguard any property or WORK, or installations from damage, and the EMPLOYER, for its part, may take over the work remaining unfinished by the CONTRACTOR and complete the same through a fresh contractor or by other means, at the risk and cost of the CONTRACTOR, and any of his sureties if any, shall be liable to the EMPLOYER for any excess cost occasioned by such work having to be so taken over and completed by the EMPLOYER over and above the cost at the rates specified in the schedule of quantities and rate/prices.

- b) WITHOUT DETERMINING THE CONTRACT to take over the work of the CONTRACTOR or any part thereof and complete the same through a fresh contractor or by other means at the risk and cost of the CONTRACTOR. The CONTRACTOR and any of his sureties are liable to the EMPLOYER for any excess cost over and above the cost at the rates specified in the Schedule of Quantities/ rates, occasioned by such works having been taken over and completed by the EMPLOYER.
- 29.2 In such events of Clause 29.1(a) or (b) above.
- a) The whole or part of the Contract Performance Security furnished by the CONTRACTOR is liable to be forfeited without prejudice to the right of the EMPLOYER to recover from the CONTRACTOR the excess cost referred to in the sub-clause aforesaid, the EMPLOYER shall also have the right of taking possession and utilising in completing the works or any part thereof, such as materials equipment and plants available at work site belonging to the CONTRACTOR as may be necessary and the CONTRACTOR shall not be entitled for any compensation for use or damage to such materials, equipment and plant.
- b) The amount that may have become due to the CONTRACTOR on account of work already executed by him shall not be payable to him until after the expiry of Six (6) calendar months reckoned from the date of termination of CONTRACT or from the taking over of the WORK or part thereof by the EMPLOYER as the case may be, during which period the responsibility for faulty materials or workmanship in respect of such work shall, under the CONTRACT, rest exclusively with the CONTRACTOR. This amount shall be subject to deduction of any amounts due from the CONTRACT to the EMPLOYER under the terms of the CONTRACT authorised or required to be reserved or retained by the EMPLOYER.
- 29.3 Before determining the CONTRACT as per Clause 29.1(a) or (b) provided in the judgement of the EMPLOYER, the default or defaults committed by the CONTRACTOR is/are curable and can be cured by the CONTRACTOR if an opportunity given to him, then the EMPLOYER may issue Notice in writing calling the CONTRACTOR to cure the default within such time specified in the Notice.
- 29.4 The EMPLOYER shall also have the right to proceed or take action as per 29.1(a) or (b) above, in the event that the CONTRACTOR becomes bankrupt, insolvent, compounds with his creditors, assigns the CONTRACT in favour of his creditors or any other person or persons, or being a company or a corporation goes into voluntary liquidation, provided that in the said events it shall not be necessary for the EMPLOYER to give any prior notice to the CONTRACTOR.
- 29.5 Termination of the CONTRACT as provided for in sub- clause 29.1(a) above shall not prejudice or affect their rights of the EMPLOYER which may have accrued upto the date of such termination.
- 30 Contractor remains liable to pay compensation if**
- 30.1 In any case in which any of the powers conferred upon the EMPLOYER BY CLAUSE 29.0 thereof shall have become

**action not taken under
clause 29:**

exercisable and the same had not been exercised, the non-exercise thereof shall not constitute a waiver of any of the conditions hereof and such powers shall notwithstanding be exercisable in the event of any further case of default by the CONTRACTOR for which by any clause or clauses hereof he is declared liable to pay compensation amounting to the whole of his Contract Performance Security, and the liability of the CONTRACTOR for past and future compensation shall remain unaffected. In the event of the EMPLOYER putting in force the power under above sub-clause (a), (b) or (c) vested in him under the preceding clause he may, if he so desired, take possession of all or any tools, and plants, materials and stores in or upon the works or the site thereof belonging to the CONTRACTOR or procured by him and intended to be used for the execution of the WORK or any part thereof paying or allowing for the same in account at the CONTRACT rates or in case of these not being applicable at current market rates to be certified by the ENGINEER-IN-CHARGE whose certificate thereof shall be final, otherwise the ENGINEER-IN-CHARGE may give notice in writing to the CONTRACTOR or his clerk of the works, foreman or other authorised agent, requiring him to remove such tools, plant, materials or stores from the premises (within a time to be specified in such notice), and in the event of the CONTRACTOR failing to comply with any such requisition, the ENGINEER-IN-CHARGE may remove them at the CONTRACTOR's expense or sell them by auction or private sale on account of the CONTRACTOR and at his risk in all respects without any further notice as to the date, time or place of sale and the certificate of the ENGINEER-IN-CHARGE as to the expenses of any such removal and the amount of the proceeds and expenses of any such sale shall be final and conclusive against the CONTRACTOR.

31 Change in constitution:	31.1	Where the CONTRACTOR is a partnership firm, the prior approval of the EMPLOYER shall be obtained in writing, before any change is made in the constitution of the firm. Where the CONTRACTOR is an individual or a Hindu undivided family business concern, such approval as aforesaid shall, likewise be obtained before such CONTRACTOR enters into any agreement with other parties, where under, the reconstituted firm would have the right to carry out the work hereby undertaken by the CONTRACTOR. In either case if prior approval as aforesaid is not obtained, the CONTRACT shall be deemed to have been allotted in contravention of clause 37 hereof and the same action may be taken and the same consequence shall ensue as provided in the said clause.
32 Termination of contract	32(A)	TERMINATION OF CONTRACT FOR DEATH: If the CONTRACTOR is an individual or a proprietary concern and the individual or the proprietor dies or if the CONTRACTOR is a partnership concern and one of the partner dies then unless, the EMPLOYER is satisfied that the legal representative of the individual or the proprietary concern or the surviving partners are capable of carrying out and completing CONTRACT, he (the EMPLOYER) is entitled to cancel the CONTRACT for the uncompleted part without being in any way liable for any compensation payment to the estate of the deceased CONTRACTOR and/or to the surviving partners of the CONTRACTOR'S firm on account of the cancellation of CONTRACT. The decision of the EMPLOYER in such

assessment shall be final and binding on the parties. In the event of such cancellation, the EMPLOYER shall not hold the estate of the diseased CONTRACTOR and/or the surviving partners of the CONTRACTOR'S firm liable for any damages for non-completion of CONTRACT.

32(B) TERMINATION OF CONTRACT IN CASE OF LIQUIDATION / BANKRUPTCY ETC.

If the Contractor shall dissolve or become bankrupt or insolvent or cause or suffer any receiver to be appointed of his business of any assets thereof compound with his Creditors, or being a corporation commence to be wound up, not being a member's voluntary winding up for the purpose of amalgamation or reconstruction, or carry on its business under a Receiver for the benefits of its Creditors any of them, EMPLOYER shall be at liberty:-

To terminate the contract forthwith upon coming to know of the happening of any such event as aforesaid by notice in writing to the Contractor or to give the Receiver or liquidator or other person, the option of carrying out the contract subject to his providing a guarantee upto an amount to be agreed upon by EMPLOYER for due and faithful performance of the contract.

32 (C) TERMINATION OF CONTRACT FOR NON-PERFORMANCE AND SUBSEQUENTLY PUTTING THE CONTRACTOR ON HOLIDAY:

In case of termination of CONTRACT herein set forth (under clause 29.0) except under conditions of Force Majeure and termination after expiry of contract, the CONTRACTOR shall be put under holiday [i.e. neither any enquiry will be issued to the party by IGGL. against any type of tender nor their offer will be considered by IGGL against any ongoing tender (s) where contract between IGGL and that particular CONTRACTOR (as a bidder) has not been finalized] for three years from the date of termination by IGGL. to such CONTRACTOR.

33 Members of the employer not individually liable:

33.1 No Director, or official or employee of the EMPLOYER/ CONSULTANT shall in any way be personally bound or liable for the acts or obligations of the EMPLOYER under the CONTRACT or answerable for any default or omission in the observance or performance of any of the acts, matters or things which are herein contained.

34 Employer not bound by personal representations:

34.1 The CONTRACTOR shall not be entitled to any increase on the scheduled rates or any other right or claim whatsoever by reason of any representation, explanation statement or alleged representation, promise or guarantees given or alleged to have been given to him by any person.

35 Contractor's office at site:

35.1 The CONTRACTOR shall provide and maintain an office at the site for the accommodation of his agent and staff and such office shall be open at all reasonable hours to receive instructions, notice or other communications. The CONTRACTOR at all time shall maintain a site instruction book and compliance of these shall be communicated to the ENGINEER-IN CHARGE from time to time and the whole document to be preserved and handed over after completion of works.

36 Contractor's subordinate staff and their conduct

36.1 The CONTRACTOR, on or after award of the WORK shall name and depute a qualified engineer having sufficient experience in carrying out work of similar nature, to whom the equipments, materials, if any, shall be issued and instructions for works given. The CONTRACTOR shall also provide to the satisfaction of the ENGINEER-IN- CHARGE sufficient and qualified staff to superintend the execution of the WORK, competent sub-agents, foremen and leading hands including those specially qualified by previous experience to supervise the types of works comprised in the CONTRACT in such manner as will ensure work of the best quality, expeditious working. Whenever in the opinion of the ENGINEER-IN-CHARGE additional properly qualified supervisory staff is considered necessary, they shall be employed by the CONTRACTOR without additional charge on accounts thereof. The CONTRACTOR shall ensure to the satisfaction of the ENGINEER-IN-CHARGE that SUB-CONTRACTORS, if any, shall provide competent and efficient supervision, over the work entrusted to them.

36.2 If and whenever any of the CONTRACTOR's or SUB-CONTRACTOR'S agents, sub-agents, assistants, foremen, or other employees shall in the opinion of ENGINEER-IN-CHARGE be guilty of any misconduct or be incompetent or insufficiently qualified or negligent in the performance of their duties of that in the opinion of the EMPLOYER or the ENGINEER-IN-CHARGE, it is undesirable for administrative or any other reason for such person or persons to be employed in the works, the CONTRACTOR, is so directed by the ENGINEER-IN- CHARGE, shall at once remove such person or persons from employment thereon. Any person or persons so removed from the works shall not again be employed in connection with the WORKS without the written permission of the ENGINEER-IN- CHARGE. Any person so removed from the WORK shall be immediately re-placed at the expense of the CONTRACTOR by a qualified and competent substitute. Should the CONTRACTOR be requested to repatriate any person removed from the works he shall do so and shall bear all costs in connection herewith.

36.3 The CONTRACTOR shall be responsible for the proper behaviour of all the staff, foremen, workmen, and others, and shall exercise a proper degree of control over them and in particular and without prejudice to the said generality, the CONTRACTOR shall be bound to prohibit and prevent any employees from trespassing or acting in any way detrimental or prejudicial to the interest of the community or of the properties or occupiers of land and properties in the neighborhood and in the event of such employee so trespassing, the CONTRACTOR shall be responsible therefore and relieve the EMPLOYER of all consequent claims or actions for damages or injury or any other grounds whatsoever. The decision of the ENGINEER-IN-CHARGE upon any matter arising under this clause shall be final. The CONTRACTOR shall be liable for any liability to EMPLOYER on account of deployment of CONTRACTOR's staff etc. or incidental or arising out of the execution of CONTRACT.

The CONTRACTOR shall be liable for all acts or omissions on the part of his staff, Foremen and Workmen and others in his employment, including misfeasance or negligence of whatever

kind in the course of their work or during their employment, which are connected directly or indirectly with the CONTRACT.

36.4 If and when required by the EMPLOYER and CONTRACTOR's personnel entering upon the EMPLOYER's premises shall be properly identified by badges of a type acceptable to the EMPLOYER which must be worn at all times on EMPLOYER's premises. CONTRACTOR may be required to obtain daily entry passes for his staff/employees from EMPLOYER to work within operating areas. These being safety requirements, no relaxations on this account shall be given to CONTRACTOR.

36 Sub-letting of Works:

37.1 No part of the CONTRACT nor any share or interest therein shall in any manner or degree be transferred, assigned or sublet by the CONTRACTOR directly or indirectly to any person, firm or corporation whatsoever without the consent in writing, of the ENGINEER/EMPLOYER except as provided for in the succeeding sub-clause.

i) SUB-CONTRACTS FOR TEMPORARY WORKS ETC.:

The EMPLOYER may give written consent to Sub- contract for the execution of any part of the WORK at the site, being entered in to by CONTRACTOR provided each individual Sub- contract is submitted to the ENGINEER-IN-CHARGE before being entered into and is approved by him.

ii) LIST OF SUB-CONTRACTORS TO BE SUPPLIED:

At the commencement of every month the CONTRACTOR shall furnish to the ENGINEER-IN- CHARGE list of all SUB- CONTRACTORS or other persons or firms engaged by the CONTRACTOR and working at the SITE during the previous month with particulars of the general nature of the Subcontract or works done by them.

iii) CONTRACTOR'S LIABILITY NOT LIMITED BY SUB-CONTRACTORS: _

Notwithstanding any sub-letting with such approval as aforesaid and notwithstanding that the ENGINEER-IN-CHARGE shall have received copies of any Subcontracts, the contractor shall be and shall remain solely responsible for the quality, proper and expeditious execution of the Contract in all respects as if such sub-letting or Subcontracting had not taken place, and as if such work had been done directly by the CONTRACTOR. The CONTRACTOR shall bear all responsibility for any act or omission on the part of sub-contractors in regard to work to be performed under the CONTRACT.

iv) EMPLOYER MAY TERMINATE SUB-CONTRACTS: _

If any SUB-CONTRACTOR engaged upon the works at the site executes any works which in the opinion of the ENGINEER-IN-CHARGE is not in accordance with the CONTRACT documents, the EMPLOYER may by written notice to the CONTRACTOR request him to terminate such subcontract and the CONTRACTOR upon the receipt of

such notice shall terminate such Subcontract and dismiss the SUB-CONTRACTOR(S) and the later shall forthwith leave the works, failing which the EMPLOYER shall have the right to remove such SUB- CONTRACTOR(S) from the site.

v) **NO REMEDY FOR ACTION TAKEN UNDER THIS CLAUSE:**

No action taken by the EMPLOYER under the clause shall relieve the CONTRACTOR of any of his liabilities under the CONTRACT or give rise to any right or compensation, extension of time or otherwise failing which the EMPLOYER shall have the right to remove such SUB-CONTRACTOR(S) from the site.

37 Power of entry:

38.1 If the CONTRACTOR shall not commence the WORK in the manner previously described in the CONTRACT documents or if he shall at any time in the opinion of the ENGINEER-IN-CHARGE.

- i) fail to carry out the WORK in conformity with the CONTRACT documents, or
- ii) fail to carry out the WORK in accordance with the Time Schedule, or
- iii) substantially suspend work or the WORK for a period of fourteen days without authority from the ENGINEER-IN-CHARGE, or
- iv) fail to carry out and execute the WORK to the satisfaction of the ENGINEER-IN-CHARGE, or
- v) fail to supply sufficient or suitable construction plant, temporary works, labour, materials or things, or
- vi) Commit, suffer, or permit any other breach of any of the provisions of the CONTRACT on his part to be performed or observed or persist in any of the above mentioned breaches of the CONTRACT for fourteen days, after notice in writing shall have been given to the CONTRACTOR by the ENGINEER-IN-CHARGE requiring such breach to be remedied, or
- vii) if the CONTRACTOR shall abandon the WORK, or
- viii) If the CONTRACTOR during the continuance of the CONTRACT shall become bankrupt, make any arrangement or composition with his creditors, or permit any execution to be levied or go into liquidation whether compulsory or voluntary not being merely a voluntary liquidation for the purpose of amalgamation or reconstruction

then in any such case, the EMPLOYER shall have the power to enter upon the WORK and take possession thereof and of the materials, temporary WORK, construction plant, and stock thereon, and to revoke the CONTRACTOR's licence to use the same, and to complete the WORK by his agents, other CONTRACTORS or workmen or to relate the same upon any terms and to such other person, firm or corporation as the

EMPLOYER in his absolute discretion may think proper to employ and for the purpose aforesaid to use or authorise the use of any materials, temporary work, CONSTRUCTION PLANT, and stock as aforesaid, without making payment or allowance to the CONTRACTOR for the said materials other than such as may be certified in writing by the ENGINEER-IN-CHARGE to be reasonable, and without making any payment or allowance to the CONTRACTOR for the use of the temporary said works, construction plant and stock or being liable for any loss or damage thereto, and if the EMPLOYER shall by reason of his taking possession of the WORK or of the WORK being completed by other CONTRACTOR (due account being taken of any such extra work or works which may or be omitted) then the amount of such excess as certified by the ENGINEER-IN-CHARGE shall be deducted from any money which may be due for work done by the CONTRACTOR under the CONTRACT and not paid for. Any deficiency shall forthwith be made good and paid to the EMPLOYER by the CONTRACTOR and the EMPLOYER shall have power to sell in such manner and for such price as he may think fit all or any of the construction plant, materials etc. constructed by or belonging to and to recoup and retain the said deficiency or any part thereof out of proceeds of the sale.

38 Contractor's responsibility with the mechanical, electrical, intercommunication system, air conditioning contractors and other agencies:

39.1 Without repugnance of any other condition, it shall be the responsibility of the CONTRACTOR executing the work of civil construction, to work in close cooperation and coordinate the WORK with the Mechanical, Electrical, Air-conditioning and Intercommunication Contractor's and other agencies or their authorised representatives, in providing the necessary grooves, recesses, cuts and opening etc., in wall, slabs beams and columns etc. and making good the same to the desired finish as per specification, for the placement of electrical, intercommunication cables, conduits, air-conditioning inlets and outlets grills and other equipments etc. where required. For the above said requirements in the false ceiling and other partitions, the CONTRACTOR before starting-up the work shall in consultation with the Electrical, Mechanical, Intercommunication, Air-conditioning contractor and other agencies prepare and put-up a joint scheme, showing the necessary openings, grooves, recesses, cuts, the methods of fixing required for the WORK of the aforesaid, and the finishes therein, to the ENGINEER-IN-CHARGE and get the approval. The CONTRACTOR before finally submitting the scheme to the ENGINEER-IN-CHARGE, shall have the written agreement of the other agencies. The ENGINEER- IN-CHARGE, before communicating his approval to the scheme, with any required modification, shall get the final agreement of all the agencies, which shall be binding. No claim shall be entertained on account of the above.

The CONTRACTOR shall confirm in all respects with provision of any statutory regulations, ordinances or byelaws of any local or duly constituted authorities or public bodies which may be applicable from time to time to the WORK or any temporary works. The CONTRACTOR shall keep the EMPLOYER indemnified against all penalties and liabilities of every kind, arising out of non- adherence to such stains, ordinances, laws, rules, regulations, etc.

40	Other agencies at site:	40.1	The CONTRACTOR shall have to execute the WORK in such and conditions where other agencies will also be engaged for other works such as site grading, filling, and levelling, electrical and mechanical engineering works, etc. No claim shall be entertained due to WORK being executed in the above circumstances.
41	Notice:	41.1	<u>TO THE CONTRACTOR:</u> Any notice hereunder may be served on the CONTRACTOR or his duly authorised representative at the job site or may be served by registered mail direct to the address furnished by the CONTRACTOR. Proof of issue of any such notice could be conclusive of the CONTRACTOR having been duly informed of all contents therein.
		41.2	<u>TO THE EMPLOYER:</u> Any notice to be given to the EMPLOYER under the terms of the CONTRACTOR shall be served by sending the same by Registered mail to or delivering the same at the respective site offices of M/S. IGGL addressed to the HEAD/SITE-IN CHARGE.
42	Right of various interests:	42.1	i) The EMPLOYER reserves the right to distribute the work more than one agency (ies). The CONTRACTOR shall cooperate and afford other agency(ies) reasonable opportunity for access to the WORK for the carriage and storage of materials and execution of their works. ii) Wherever the work being done by any department of the EMPLOYER or by other agency(ies) employed by the EMPLOYER is contingent upon WORK covered by this CONTRACT, the respective rights of the various interests involved shall be determined by the ENGINEER-IN-CHARGE to secure the completion of the various portions of the work in general harmony.
43	Patents and royalties:	43.1	The CONTRACTOR, if licensed under any patent covering equipment, machinery, materials or compositions of matter to be used or supplied or methods and process to be practised or employed in the performance of this CONTRACT, agrees to pay all royalties and licence fees which may be due with respect thereto. If any equipment, machinery, materials, composition of matters, be used or supplied or methods and processes to be practised or employed in the performance of this CONTRACT, is covered by a patent under which the CONTRACTOR is not licensed then the CONTRACTOR before supplying or using the equipment, machinery materials, composition method or processes shall obtain such licences and pay such royalties and licence fees as may be necessary for performance of this CONTRACT. In the event the CONTRACTOR fails to pay any such royalty or obtain any such licence, any suit for infringement of such patents which is brought against the CONTRACTOR or the EMPLOYER as a result such failure will be defended by the CONTRACTOR at his own expense and the CONTRACTOR will pay any damages and costs awarded in such suit. The CONTRACTOR shall promptly notify the EMPLOYER if the CONTRACTOR has acquired the knowledge of any plant under

which a suit for infringement could be reasonably brought because of the use by the EMPLOYER of any equipment, machinery, materials, process, methods to be supplied hereunder. The CONTRACTOR agrees to and does hereby grant to EMPLOYER, together with the right to extend the same to any of the subsidiaries of the EMPLOYER as irrevocable, royalty free licence to use in any country, any invention made by the CONTRACTOR or his employee in or as result of the performance of the WORK under the CONTRACT.

43.2 All charges on account of royalty. tollage, rent, octroi terminal or sales tax and/or other duties or any other levy on materials obtained for the work or temporary work or part thereof (excluding materials provided by the EMPLOYER) shall be borne by the CONTRACTOR.

43.3 The CONTRACTOR shall not sell or otherwise dispose of or remove except for the purpose of this CONTRACT, the sand, stone, clay, ballast, earth, rock or other substances, or materials obtained from any excavation made for the purpose of the WORK or any building or produce upon the site at the time of delivery of the possession thereof, but all such substances, materials, buildings and produce shall be the property of the EMPLOYER provided that the CONTRACTOR may with the permission of the ENGINEER-IN-CHARGE, use the same for the purpose of the work by payment of cost of the same at such a rate as may be determined by the ENGINEER-IN-CHARGE.

43.4 The EMPLOYER shall indemnify and save harmless the CONTRACTOR from any loss on account of claims against CONTRACTOR for the contributory infringement of patent rights arising out and based upon the claim that the use of the EMPLOYER of the process included in the design prepared by the EMPLOYER and used in the operation of the plant infringes on any patent right. With respect to any subcontract entered into by CONTRACTOR pursuant to the provisions of the relevant clause hereof, the CONTRACTOR shall obtain from the SUB-CONTRACTOR an undertaking to provide the EMPLOYER with the same patent protection that CONTRACTOR is required to provide under the provisions of this clause.

44 Liens:

44.1 If, at any time there should be evidence or any lien or claim for which the EMPLOYER might have become liable and which is chargeable to the CONTRACTOR, the EMPLOYER shall have the right to retain out of any payment then due or thereafter to become due an amount sufficient to completely indemnify the EMPLOYER against such lien or claim and if such lien or claim be valid, the EMPLOYER may pay and discharge the same and deduct the amount so paid from any money which may be or may become due and payable to the CONTRACTOR. If any lien or claim remain unsettled after all payments are made, the CONTRACTOR shall refund or pay to the EMPLOYER all money that the latter may be compelled to pay in discharging such lien or claim including all costs and reasonable expenses. EMPLOYER reserves the right to do the same.

44.2 The EMPLOYER shall have lien on all materials, equipments including those brought by the CONTRACTOR for the purpose of erection, testing and commissioning of the WORK.

		44.3	The final payment shall not become due until the CONTRACTOR delivers to the ENGINEER-IN-CHARGE a complete release or waiver of all liens arising or which may arise out of his agreement or receipt in full or certification by the CONTRACTOR in a form approved by ENGINEER-IN-CHARGE that all invoices for labour, materials, services have been paid in lien thereof and if required by the ENGINEER-IN-CHARGE in any case an affidavit that so far as the CONTRACTOR has knowledge or information the releases and receipts include all the labour and material for which a lien could be filled.
		44.4	CONTRACTOR will indemnify and hold the EMPLOYER harmless, for a period of two years after the issue of FINAL CERTIFICATE, from all liens and other encumbrances against the EMPLOYER on account of debts or claims alleged to be due from the CONTRACTOR or his SUB-CONTRACTOR to any person including SUB- CONTRACTOR and on behalf of EMPLOYER will defend at his own expense, any claim or litigation brought against the EMPLOYER or the CONTRACTOR in connection therewith. CONTRACTOR shall defend or contest at his own expense any fresh claim or litigation by any person including his SUB-CONTRACTOR, till its satisfactory settlement even after the expiry of two years from the date of issue of FINAL CERTIFICATE.
45	Delays by employer or his authorised agents:	45.1	In case the CONTRACTOR's performance is delayed due to any act omission on the part of the EMPLOYER or his authorised agents, then the CONTRACTOR shall be given due extension of time for the completion of the WORK, to the extent such omission on the part of the EMPLOYER has caused delay in the CONTRACTOR's performance of his WORK.
		45.2	No adjustment in CONTRACT PRICE shall be allowed for reasons of such delays and extensions granted except as provided in TENDER DOCUMENT, where the EMPLOYER reserves the right to seek indulgence of CONTRACTOR to maintain the agreed Time Schedule of Completion. In such an event the CONTRACTOR shall be obliged for working by CONTRACTOR's personnel for additional time beyond stipulated working hours as also Sundays and Holidays and achieve the completion date/interim targets.
46	Payment if the contract is terminated:	46.1	If the CONTRACT shall be terminated as per Tender pursuant to Clause no. 29 of GCC, the CONTRACTOR shall be paid by the EMPLOYER in so far as such amounts or items shall not have already been covered by payments of amounts made to the CONTRACTOR for the WORK executed and accepted by ENGINEER-IN-CHARGE prior to the date of termination at the rates and prices provided for in the CONTRACT and in addition to the following: a) The amount payable in respect of any preliminary items, so far as the Work or service comprised therein has been carried out or performed and an appropriate portion as certified by ENGINEER-IN- CHARGE of any such items or service comprised in which has been partially carried out or performed.

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- b) Any other expenses which the CONTRACTOR has expended for performing the WORK under the CONTRACT subject to being duly recommended by ENGINEER-IN-CHARGE and approved by EMPLOYER for payment, based on documentary evidence of his having incurred such expenses.
- 46.2 The CONTRACTOR will be further required to transfer the title and provide the following in the manner and as directed by the EMPLOYER.
- c) Any and all completed works.
- d) Such partially completed WORK including drawings, informations and CONTRACT rights as the CONTRACTOR has specially performed, produced or acquired for the performance of the CONTRACTOR.
- 46 No waiver of rights:** 47.1 Neither the inspection by the EMPLOYER or any of their officials, employees, or agents nor any order by the EMPLOYER for payment of money or any payment for or acceptance of the whole or any part of the Work by the EMPLOYER nor any extension of time, nor any possession taken by EMPLOYER shall operate as a waiver of any provision of the CONTRACT, or of any power herein reserved to the EMPLOYER, or any right to damages herein provided, nor shall any waiver of any breach in the CONTRACT be held to be a waiver of any other subsequent breach.
- 47 Certificate not to affect right of employer and liability of contractor:** 48.1 No interim payment certificate(s) issued by the Engineer-in-Charge of the EMPLOYER, nor any sum paid on account by the EMPLOYER, nor any extension of time for execution of the work granted by EMPLOYER shall affect or prejudice the rights of the Employer against the CONTRACTOR or relieve the CONTRACTOR of his obligations for the due performance of the CONTRACT, or be interpreted as approval of the WORK done or of the equipment supplied and no certificate shall create liability for the EMPLOYER to pay for alterations, amendments, variations or additional works not ordered, in writing, by EMPLOYER or discharge the liability of the CONTRACTOR for the payment of damages whether due, ascertained, or certified or not or any sum against the payment of which he is bound to indemnify the EMPLOYER.
- 49 Language and measures:** 49.1 All documents pertaining to the CONTRACT including Specifications, Schedules, Notices, Correspondence, operating and maintenance Instructions, DRAWINGS, or any other writing shall be written in English language. The Metric System of measurement shall be used in the CONTRACT unless otherwise specified.
- 50 Transfer of title:** 50.1 The title of Ownership of supplies furnished by the CONTRACTOR shall not pass on to the EMPLOYER for all Supplies till the same are finally accepted by the EMPLOYER after the successful completion of PERFORMANCE TEST and GUARANTEE TEST and issue of FINAL CERTIFICATE.
- 50.2 However, the EMPLOYER shall have the lien on all such works performed as soon as any advance or progressive payment is made by the EMPLOYER to the CONTRACTOR and the

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CONTRACTOR shall not subject these works for use other than those intended under this CONTRACT.

51 Release of information:	51.1	The CONTRACTOR shall not communicate or use in advertising, publicity, sales releases or in any other medium, photographs, or other reproduction of the Work under this CONTRACT or description of the site dimensions, quantity, quality or other information, concerning the Work unless prior written permission has been obtained from the EMPLOYER.
52 Brand names:	52.1	The specific reference in the SPECIFICATIONS and documents to any material by trade name, make or catalogue number shall be construed as establishing standard or quality and performance and not as limited competition. However, TENDERER may offer other similar equipments provided it meets the specified standard design and performance requirements.
53 Completion of contract:	53.1	Unless otherwise terminated under the provisions of any other relevant clause, this CONTRACT shall be deemed to have been completed at the expiration of the PERIOD OF LIABILITY as provided for under the CONTRACT.
54 Spares:	54.1	The CONTRACTOR shall furnish to the EMPLOYER all spares required for COMMISSIONING of the plants, recommendatory and/or mandatory spares, which are required essential by the manufacturer/supplier. The same shall be delivered at SITE, 3(Three) months before COMMISSIONING.
		Also the CONTRACTOR should furnish the manufacturing drawings for fast wearing spares.
	54.2	The CONTRACTOR guarantees the EMPLOYER that before the manufacturers of the equipments, plants and machineries go out of production of spare parts for the equipment furnished and erected by him, he shall give at least twelve (12) months' advance notice to the EMPLOYER, so that the latter may order his requirement of spares in one lot, if he so desires.

SECTION-V PERFORMANCE OF WORK

55 Execution of work:	55.1	All the Works shall be executed in strict conformity with the provisions of the CONTRACT Documents and with such explanatory detailed drawings, specification and instructions as may be furnished from time to time to the CONTRACTOR by the ENGINEER-IN-CHARGE whether mentioned in the CONTRACT or not. The CONTRACTOR shall be responsible for ensuring that works throughout are executed in the most substantial, proper and workmanlike manner with the quality of material and workmanship in strict accordance with the SPECIFICATIONS and to the entire satisfaction of the ENGINEER-IN-CHARGE. The CONTRACTOR shall provide all necessary materials equipment labour etc. for execution and maintenance of WORK till completion unless otherwise mentioned in the CONTRACT.

56	Co-ordination and inspection of Work:	56.1	The coordination and inspection of the day-to-day work under the CONTRACT shall be the responsibility of the ENGINEER-IN-CHARGE. The written instruction regarding any particular job will normally be passed by the ENGINEER-IN-CHARGE or his authorised representative. A work order book will be maintained by the CONTRACTOR for each sector in which the aforesaid written instructions will be entered. These will be signed by the CONTRACTOR or his authorised representative by way of acknowledgement within 12 hours.
57	Work in monsoon and dewatering:	57.1	Unless otherwise specified elsewhere in the tender, the execution of the WORK may entail working in the monsoon also. The CONTRACTOR must maintain a minimum labour force as may be required for the job and plan and execute the construction and erection according to the prescribed schedule. No extra rate will be considered for such work in monsoon.
		57.2	During monsoon and other period, it shall be the responsibility of the CONTRACTOR to keep the construction work site free from water at his own cost.
58	Work on Sundays and Holidays:	58.1	For carrying out Work on Sundays, and Holidays, the CONTRACTOR will approach the ENGINEER-IN-CHARGE or his representative at least two days in advance and obtain permission in writing. The CONTRACTOR shall observe all labour laws and other statutory rules and regulations in force. In case of any violations of such laws, rules and regulations, consequence if any, including the cost thereto shall be exclusively borne by the CONTRACTOR and the EMPLOYER shall have no liability whatsoever on this account.
59	General conditions for construction and erection work:	59.1	The working time at the site of work is 48 hours per week. Overtime work is permitted in cases of need and the EMPLOYER will not compensate the same. Shift working at 2 or 3 shifts per day will become necessary and the CONTRACTOR should take this aspect into consideration for formulating his rates for quotation. No extra claims will be entertained by the EMPLOYER on this account. For carrying out work beyond working hours the CONTRACTOR will approach the ENGINEER-IN-CHARGE or his authorised representative and obtain his prior written permission.
		59.2	The CONTRACTOR must arrange for the placement of workers in such a way that the delayed completion of the WORK or any part thereof for any reason whatsoever will not affect their proper employment. The EMPLOYER will not entertain any claim for idle time payment whatsoever.
		59.3	The CONTRACTOR shall submit to the EMPLOYER/ENGINEER-IN-CHARGE reports at regular intervals regarding the state and progress of WORK. The details and proforma of the report will mutually be agreed after the award of CONTRACT. The CONTRACTOR shall provide display boards showing progress and labour strengths at worksite, as directed by the ENGINEER-IN-CHARGE.

60 Alterations in specifications, design and extra works:

60.1 The WORK covered under this CONTRACT having to be executed by the CONTRACTOR on a lumpsum firm price/item rate quoted by him, the EMPLOYER will not accept any proposals for changes in VALUE OF CONTRACT or extension in time on account of any such changes which may arise to the CONTRACTOR's scope of WORK as a result of detailed Engineering and thereafter during the execution of WORK. The only exception to this will be a case where the EMPLOYER requests in writing to the CONTRACTOR to upgrade the SPECIFICATIONS or the size of any major pieces of equipments, plant or machinery beyond what is normally required to meet the scope of WORK as defined in the CONTRACT DOCUMENT.

In such cases, a change order will be initialled by the CONTRACTOR at the appropriate time for the EMPLOYER's prior approval giving the full back-up data for their review and for final settlement of any impact on price within 30 (thirty) days thereafter.

60.2 The ENGINEER-IN-CHARGE shall have to make any alterations in, omission from, additions to or substitutions for, the Schedule of Rates, the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the WORK and the CONTRACTOR shall be bound to carry out the such altered/ extra/ new items of WORK in accordance with any instructions which may be given to him in writing signed by the ENGINEER-IN- CHARGE, and such alterations, omissions, additions or substitutions shall not invalidate the CONTRACT and any altered, additional or substituted work which the CONTRACTOR may be directed to do in the manner above specified as part of the WORK shall be carried out by the CONTRACTOR on the same conditions in all respects on which he agreed to do the main WORK. The time of completion of WORK may be extended for the part of the particular job at the discretion of the ENGINEER-IN-CHARGE, for only such alterations, additions or substitutions of the WORK, as he may consider as just and reasonable. The rates for such additional, altered or substituted WORK under this clause shall be worked out in accordance with the following provisions:-

I. For Item Rate Contract

- a) If the rates for the additional, altered or substituted WORK are specified in the CONTRACT for the WORK, the CONTRACTOR is bound to carry on the additional, altered or substituted WORK at the same rates as are specified in the CONTRACT.
- b) If the rates for the additional, altered or substituted WORK are not specifically provided in the CONTRACT for the WORK, the rates will be derived from the rates for similar class of WORK as are specified in the CONTRACT for the WORK. The opinion of the ENGINEER-IN-CHARGE, as to whether or not the rates can be reasonably so derived from the items in this CONTRACT will be final and binding on the CONTRACTOR.

- c) If the rates for the altered, additional or substituted WORK cannot be determined in the manner specified in sub-clause(s) and (b) above, then the CONTRACTOR shall, within 7 days of the date of receipt of order to carry out the WORK, inform the ENGINEER-IN-CHARGE of the rates which it is his intention to charge for such class of WORK, supported by analysis of the rate or rates claimed, and the ENGINEER-IN-CHARGE shall determine the rate or rates on the basis of the prevailing market rates, labour cost at schedule of labour rates plus 10% to cover contractor's supervision, overheads and profit and pay the CONTRACTOR accordingly. The opinion of the ENGINEER-IN-CHARGE as to current market rates of materials and the quantum of labour involved per unit of measurement will be final and binding on the CONTRACTOR.
- d) Where the item of work will be executed through nominated specialist agency as approved by the ENGINEER-IN-CHARGE, then the actual amount paid to such nominated agency supported by documentary evidence and as certified by ENGINEER-IN-CHARGE shall be considered plus 10% (ten percent) to cover all contingencies, overhead, profits to arrive at the rates.
- e) Provisions contained in the Sub-clause (a) & (d) above shall, however, not apply for the following:-

Where the value of additions of new items together with the value of alterations, additions/deletions or substitutions does not exceed by or is not less than plus/minus ($\pm$) 25% of the VALUE OF CONTRACT. The item rates in the Schedule of Rates shall hold good for all such variations between the above mentioned limits, irrespective of any increase/decrease of quantities in the individual items of Schedule of Rates.

Where the value of addition of new items together with the value of alterations, additions/deletions or substitutions reduces more than 25% of the contract value but is within the following limits the tenderer shall be paid compensation for decrease in the value of work, as follows:

S.No.	Range of Variation	Percentage compensation for decrease in the value of work in the respective range.
a)	Beyond (+) 25% upto & inclusive of (+) 50%	No increase and/or decrease shall be applicable for the Schedule of Rates

(The rates quoted for this increase shall be valid).

- b) Beyond (-) 25% upto & inclusive of(-) 50% For reduction beyond 25% contractor shall be compensated by an amount equivalent to 10% of the reduction in value of the contract as awarded. For example if the actual contract value is 70% of awarded value then compensation shall be 10% of (75-70) i.e. 0.5% of awarded contract value.

II. For Lumpsum Contracts

CONTRACTOR shall, within 7 days of the date of receipt of order to carry out the WORK, inform the ENGINEER-IN- CHARGE of the rates which it is his intention to charge for such class of WORK, supported by analysis of the rate or rates claimed, and the ENGINEER-IN-CHARGE shall determine the rate or rates on the basis of the prevailing market rates, labour cost at schedule of labour rates plus 10% to cover contractor's supervision, overheads and profit and pay the CONTRACTOR accordingly. The opinion of the ENGINEER- IN-CHARGE as to current market rates of materials and the quantum of labour involved per unit of measurement will be final and binding on the CONTRACTOR.

61 Drawings to be supplied by the employer

- 61.1 The drawings attached with tender are only for the general guidance to the CONTRACTOR to enable him to visualize the type of work contemplated and scope of work involved. The CONTRACTOR will be deemed to have studied the DRAWINGS and formed an idea about the WORK involved.
- 61.2 Detailed working drawings on the basis of which actual execution of the WORK is to proceed, will be furnished from time to time during the progress of the work. The CONTRACTOR shall be deemed to have gone through the DRAWINGS supplied to him thoroughly and carefully and in conjunction with all other connected drawings and bring to the notice of the ENGINEER-IN-CHARGE discrepancies, if any, therein before actually carrying out the Work.
- 61.3 Copies of all detailed working drawings relating to the WORK shall be kept at the CONTRACTOR's office on the site and shall be made available to the ENGINEER-IN- CHARGE at any time during the CONTRACT. The drawings and other documents issued by the EMPLOYER shall be returned to the EMPLOYER on completion of the WORK.

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62 Drawings to be supplied by the contractor:

62.1 The drawings/date which are to be furnished by the CONTRACTOR are enumerated in the special conditions of contract, and shall be furnished within the specified time.

62.2 Where approval/review of drawings before manufacture/construction/fabrication has been specified, it shall be CONTRACTOR's responsibility to have these drawings prepared as per the directions of ENGINEER-IN-CHARGE and got approved before proceeding with manufacture/construction/fabrication as the case may be. Any change that may have become necessary in these drawings during the execution of the work shall have to be carried out by the CONTRACTOR to the satisfaction of ENGINEER-IN-CHARGE at no extra cost. All final drawings shall bear the certification stamp as indicated below duly signed by both the CONTRACTOR and ENGINEER-IN-CHARGE.

"Certified true for _____
(Name of Work)

Agreement

No. _____

Signed: _____

(CONTRACTOR)
(ENGINEER-IN-CHARGE)

62.3 The DRAWINGS submitted by the CONTRACTOR shall be reviewed by the ENGINEER-IN-CHARGE as far as practicable within 3 (Three) weeks and shall be modified by the CONTRACTOR, if any modifications and/or corrections are required by the ENGINEER-IN-CHARGE. The CONTRACTOR shall incorporate such modifications and/or corrections and submit the final drawings for approval. Any delays arising out of failure by the CONTRACTOR to rectify the drawing in good time shall not alter the Contract Completion Time.

62.4 As built drawings showing all corrections, adjustments etc. shall be furnished by the CONTRACTOR in six copies and one transparent for record purposed to the EMPLOYER.

63 Setting out works:

63.1 The ENGINEER-IN-CHARGE shall furnish the CONTRACTOR with only the four corners of the Works site and a level bench mark and the CONTRACTOR shall set out the Works and shall provide an efficient staff for the purpose and shall be solely responsible for the accuracy of such setting out.

63.2 The CONTRACTOR shall provide, fix and be responsible for the maintenance of all stakes, templates, level marks, profiles and other similar things and shall take all necessary precautions to prevent their removal or disturbance and shall be responsible for the consequence of such removal of disturbance should the same take place and for their

efficient and timely reinstatement. The CONTRACTOR shall also be responsible for the maintenance of all existing survey marks, boundary marks, distance marks and center line marks, either existing or supplied and fixed by the CONTRACTOR. The work shall be set out to the satisfaction of the ENGINEER-IN-CHARGE. The approval there of joining with the CONTRACTOR by the ENGINEER- IN-CHARGE in setting out the work, shall not relieve the CONTRACTOR of any of his responsibility.

63.3	Before beginning the Works, the CONTRACTOR shall at his own cost, provide all necessary reference and level posts, pegs, bamboos, flags, ranging rods, strings and other materials for proper layout of the works in accordance with the schemes for bearing marks acceptable to the ENGINEER-IN-CHARGE. The center, longitudinal or face lines and cross lines shall be marked by means of small masonry pillars. Each pillar shall have distinct mark at the centre to enable theodolite to be set over it. No work shall be started until all these points are checked and approved by the ENGINEER-IN-CHARGE in writing but such approval shall not relieve the CONTRACTOR of any of his responsibilities. The CONTRACTOR shall also provide all labour, material and other facilities, as necessary, for the proper checking of layout and inspection of the points during construction.
63.4	Pillars bearing geodetic marks located at the sites of units of WORKS under construction should be protected and fenced by the CONTRACTOR.
63.5	On completion of WORK, the CONTRACTOR must submit the geodetic documents according to which the WORK was carried out.
64 Responsibility for level and alignment:	64.1 The CONTRACTOR shall be entirely and exclusively responsible for the horizontal and vertical alignment, the levels and correctness of every part of the WORK and shall rectify effectively any errors or imperfections therein, such rectifications shall be carried out by the CONTRACTOR, at his own cost, when instructions are issued to that effect by the ENGINEER- IN-CHARGE.
65 Materials to be supplied by contractor:	65.1 The CONTRACTOR shall procure and provide within the VALUE OF CONTRACT the whole of the materials required for the construction including steels, cement and other building materials, tools, tackles, construction plant and equipment for the completion and maintenance of the WORK except the materials which will be issued by the EMPLOYER and shall make his own arrangement for procuring such materials and for the transport thereof. The EMPLOYER may give necessary recommendation to the respective authority if so desired by the CONTRACTOR but assumes no further responsibility of any nature. The EMPLOYER will insist on the procurement of materials which bear ISI stamp and/or which are supplied by reputed suppliers.

- 65.2 The CONTRACTOR shall properly store all materials either issued to him or brought by him to the SITE to prevent damages due to rain, wind, direct exposure to sun, etc. as also from theft, pilferage, etc. for proper and speedy execution of his works. The CONTRACTOR shall maintain sufficient stocks of all materials required by him.
- 65.3 No material shall be despatched from the CONTRACTOR's stores before obtaining the approval in writing of the ENGINEER-IN-CHARGE.
- 66 Stores supplied by the employer:**
- 66.1 If the SPECIFICATION of the WORK provides for the use of any material of special description to be supplied from the EMPLOYER's stores or it is required that the CONTRACTOR shall use certain stores to be provided by the ENGINEER-IN-CHARGE, such materials and stores, and price to be charged there for as hereinafter mentioned being so far as practicable for the convenience of the CONTRACTOR, but not so as in any way to control the meaning or effect of the CONTRACT, the CONTRACTOR shall be bound to purchase and shall be supplied such materials and stores as are from time to time required to be used by him for the purpose of the CONTRACT only. The sums due from the CONTRACTOR for the value of materials supplied by the EMPLOYER will be recovered from the running account bill on the basis of the actual consumption of materials in the works covered and for which the running account bill has been prepared. After the completion of the WORK, however, the CONTRACTOR has to account for the full quantity of materials supplied to him as per relevant clauses in this document.
- 66.2 The value of the stores/materials as may be supplied to the CONTRACTOR by the EMPLOYER will be debited to the CONTRACTOR's account at the rates shown in the schedule of materials and if they are not entered in the schedule, they will be debited at cost price, which for the purpose of the CONTRACT shall include the cost of carriage and all other expenses whatsoever such as normal storage supervision charges which shall have been incurred in obtaining the same at the EMPLOYER's stores. All materials so supplied to the CONTRACTOR shall remain the absolute property of the EMPLOYER and shall not be removed on any account from the SITE of the WORK, and shall be at all times open for inspection to the ENGINEER-IN-CHARGE. Any such materials remaining unused at the time of the completion or termination of the CONTRACT shall be returned to the EMPLOYER's stores or at a place as directed by the ENGINEER-IN-CHARGE in perfectly good condition at CONTRACTOR's cost.
- 67 Conditions for issue of materials:**
- 67.1 i) Materials specified as to be issued by the EMPLOYER will be supplied to the CONTRACTOR by the EMPLOYER from his stores. It shall be responsibility of the CONTRACTOR to take delivery of the materials and arrange for its loading, transport and unloading at the SITE of WORK at his own cost. The materials shall be issued between the working hours and as per the rules of the EMPLOYER as framed from time to time.

General Conditions of Contract

- ii) The CONTRACTOR shall bear all incidental charges for the storage and safe custody of materials at site after these have been issued to him.
- iii) Materials specified as to be issued by the EMPLOYER shall be issued in standard sizes as obtained from the manufacturers.
- iv) The CONTRACTOR shall construct suitable Godowns at the SITE of WORK for storing the materials safe against damage by rain, dampness, fire, theft etc. He shall also employ necessary watch and ward establishment for the purpose.
- v) It shall be duty of the CONTRACTOR to inspect the materials supplied to him at the time of taking delivery and satisfy himself that they are in good condition. After the materials have been delivered by the EMPLOYER, it shall be the responsibility of the CONTRACTOR to keep them in good condition and if the materials are damaged or lost, at any time, they shall be repaired and/or replaced by him at his own cost according to the instructions of the ENGINEER-IN-CHARGE.
- vi) The EMPLOYER shall not be liable for delay in supply or non-supply of any materials which the EMPLOYER has undertaken to supply where such failure or delay is due to natural calamities, act of enemies, transport and procurement difficulties and any circumstances beyond the control of the EMPLOYER. In no case, the CONTRACTOR shall be entitled to claim any compensation or loss suffered by him on this account.
- vii) It shall be responsibility of the CONTRACTOR to arrange in time all materials required for the WORK other than those to be supplied by the EMPLOYER. If, however, in the opinion of the ENGINEER-IN-CHARGE the execution of the WORK is likely to be delayed due to the CONTRACTOR's inability to make arrangements for supply of materials which normally he has to arrange for, the ENGINEER-IN-CHARGE shall have the right at his own discretion to issue such materials, if available with the EMPLOYER or procure the materials from the market or as elsewhere and the CONTRACTOR will be bound to take such materials at the rates decided by the ENGINEER-IN-CHARGE. This, however, does not in any way absolve the CONTRACTOR from responsibility of making arrangements for the supply of such materials in part or in full, should such a situation occur nor shall this constitute a reason for the delay in the execution of the WORK.

- viii) None of the materials supplied to the CONTRACTOR will be utilised by the CONTRACTOR for manufacturing item which can be obtained as supplied from standard manufacturer in finished form.
- ix) The CONTRACTOR shall, if desired by the ENGINEER-IN-CHARGE, be required to execute an Indemnity Bond in the prescribed form for safe custody and accounting of all materials issued by the EMPLOYER.
- x) The CONTRACTOR shall furnish to the ENGINEER-IN-CHARGE sufficiently in advance a statement showing his requirement of the quantities of the materials to be supplied by the EMPLOYER and the time when the same will be required by him for the works, so as to enable the ENGINEER-IN-CHARGE to make necessary arrangements for procurement and supply of the material.
- xi) Account of the materials issued by the EMPLOYER shall be maintained by CONTRACTOR indicating the daily receipt, consumption and balance in hand. This account shall be maintained in a manner prescribed by the ENGINEER-IN-CHARGE along with all connected papers viz. requisitions, issues, etc., and shall be always available for inspection in the CONTRACTOR's office at SITE.
- xii) The CONTRACTOR should see that only the required quantities of materials are got issued. The CONTRACTOR shall not be entitled to cartage and incidental charges for returning the surplus materials, if any, to the stores where from they were issued or to the place as directed by the ENGINEER-IN-CHARGE.
- xiii) Materials/Equipment(s) supplied by EMPLOYER shall not be utilised for any purpose(s) than issued for.

68 Material procured with assistance of employer/return of surplus:

68.1 Notwithstanding anything contained to the contrary in any or all the clauses of this CONTRACT where any materials for the execution of the CONTRACT are procured with the assistance of the EMPLOYER either by issue from EMPLOYER's stock or purchases made under order or permits or licences issued by Government, the CONTRACTOR shall hold the said materials as trustee for the EMPLOYER and use such materials economically and solely for the purpose of the CONTRACT and not dispose them off without the permission of the EMPLOYER and return, if required by the ENGINEER-IN-CHARGE, shall determine having due regard to the condition of the materials. The price allowed to the CONTRACTOR, however, shall not exceed the amount charged to him excluding the storage charges, if any. The decision of the ENGINEER-IN-CHARGE shall be final and conclusive in such matters. In the event of breach of the aforesaid



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condition, the CONTRACTOR shall, in terms of the licences or permits and/or criminal breach of trust, be liable to compensate the EMPLOYER at double rate or any higher rate, in the event of those materials at that time having higher rate or not being available in the market, then any other rate to be determined by the ENGINEER-IN-CHARGE and his decision shall be final and conclusive.

69 Materials obtained from dismantling:	69.1	If the CONTRACTOR in the course of execution of the WORK is called upon to dismantle any part for reasons other than those stipulated in Clauses 74 and 77 hereunder, the materials obtained in the WORK of dismantling etc., will be considered as the EMPLOYER's property and will be disposed off to the best advantage of the EMPLOYER.
70 Articles of value found:	70.1	All gold, silver and other minerals of any description and all precious stones, coins, treasure relics, antiquities and other similar things which shall be found in, under or upon the SITE, shall be the property of the EMPLOYER and the CONTRACTOR shall duly preserve the same to the satisfaction of the ENGINEER-IN-CHARGE and shall from time to time deliver the same to such person or persons indicated by the EMPLOYER.
71 Discrepancies between instructions:	71.1	Should any discrepancy occur between the various instructions furnished to the CONTRACTOR, his agent or staff or any doubt arises as to the meaning of any such instructions or should there be any misunderstanding between the CONTRACTOR's staff and the ENGINEER-IN-CHARGE's staff, the CONTRACTOR shall refer the matter immediately in writing to the ENGINEER-IN-CHARGE whose decision thereon shall be final and conclusive and no claim for losses alleged to have been caused by such discrepancies between instructions, doubts, or misunderstanding shall in any event be admissible.
72 Action where no specification is issued:	72.1	In case of any class of WORK for which there is no SPECIFICATION supplied by the EMPLOYER as mentioned in the Tender Documents such WORK shall be carried out in accordance with Indian Standard Specifications and if the Indian Standard Specifications do not cover the same, the WORK should be carried out as per standard Engineering Practice subject to the approval of the ENGINEER-IN-CHARGE.
73 Inspection of Works:	73.1	The ENGINEER-IN-CHARGE will have full power and authority to inspect the WORK at any time wherever in progress either on the SITE or at the CONTRACTOR's premises/workshops wherever situated, premises/ workshops of any person, firm or corporation where WORK in connection with the CONTRACT may be in hand or where materials are being or are to be supplied, and the CONTRACTOR shall afford or procure for the ENGINEER-IN-CHARGE every facility and assistance to carry out such inspection. The CONTRACTOR shall, at all time during the usual working hours and at all other time at

which reasonable notice of the intention of the ENGINEER-IN-CHARGE or his representative to visit the WORK shall have been given to the CONTRACTOR, either himself be present or receive orders and instructions, or have a responsible agent duly accredited in writing, present for the purpose. Orders given to the CONTRACTOR's agent shall be considered to have the same force as if they had been given to the CONTRACTOR himself. The CONTRACTOR shall give not less than seven days notice in writing to the ENGINEER-IN-CHARGE before covering up or otherwise placing beyond reach of inspection and measurement of any work in order that the same may be inspected and measured. In the event of breach of above the same shall be uncovered at CONTRACTOR's expense for carrying out such measurement or inspection.

73.2 No material shall be despatched from the CONTRACTOR's stores before obtaining the approval in writing of the Engineer-in-Charge.

The CONTRACTOR is to provide at all time during the progress of the WORK and the maintenance period, proper means of access with ladders, gangways etc. and the necessary attendance to move and adopt as directed for inspection or measurements of the WORK by the ENGINEER-IN-CHARGE.

73.3 The CONTRACTOR shall make available to the ENGINEER-IN-CHARGE free of cost all necessary instruments and assistance in checking or setting out of WORK and in the checking of any WORK made by the CONTRACTOR for the purpose of setting out and taking measurements of Work.

74 Tests for quality of Work:

74.1 All workmanship shall be of the respective kinds described in the CONTRACT DOCUMENTS and in accordance with the instructions of the ENGINEER-IN-CHARGE and shall be subjected from time to time to such test at CONTRACTOR's cost as the ENGINEER-IN-CHARGE may direct at the place of manufacture or fabrication or on the site or at all or any such places. The CONTRACTOR shall provide assistance, instruments, labour and materials as are normally required for examining, measuring and testing any workmanship as may be selected and required by the ENGINEER-IN-CHARGE.

74.2 All the tests that will be necessary in connection with the execution of the WORK as decided by the ENGINEER-IN-CHARGE shall be carried out at the field testing laboratory of the EMPLOYER by paying the charges as decided by the EMPLOYER from time to time. In case of non-availability of testing facility with the EMPLOYER, the required test shall be carried out at the cost of CONTRACTOR at Government or any other testing laboratory as directed by ENGINEER-IN-CHARGE.

74.3 If any tests are required to be carried out in conjunction with the WORK or materials or workmanship not supplied by the CONTRACTOR, such tests shall be carried out by the CONTRACTOR as per instructions of

ENGINEER-IN-CHARGE and cost of such tests shall be reimbursed by the EMPLOYER.

75 Samples for approval:	75.1	The CONTRACTOR shall furnish to the ENGINEER-IN-CHARGE for approval, when requested or if required by the specifications, adequate samples of all materials and finished to be used in the WORK. Such samples shall be submitted before the WORK is commenced and in ample time to permit tests and examinations thereof. All materials furnished and finishes applied in actual WORK shall be fully equal to the approved samples.
76 Action and compensation in case of bad work:	76.1	If it shall appear to the ENGINEER-IN-CHARGE that any work has been executed with unsound, imperfect or unskilled workmanship, or with materials of any inferior description, or that any materials or articles provided by the CONTRACTOR for the execution of the WORK are unsound, or of a quality inferior to that contracted for, or otherwise not in accordance with the CONTRACT, the CONTRACTOR shall on demand in writing from the ENGINEER-IN-CHARGE or his authorised representative specifying the WORK, materials or articles complained of notwithstanding that the same may have been inadvertently passed, certified and paid for, forthwith rectify or remove and reconstruct the WORK so specified and provide other proper and suitable materials or articles at his own cost and in the event of failure to do so within the period specified by the ENGINEER-IN-CHARGE in his demand aforesaid, the CONTRACTOR shall be liable to pay compensation at the rate of 1 % (One percent) of the estimated cost of the whole WORK, for every week limited to a maximum of 10% (ten percent) of the value of the whole WORK, while his failure to do so shall continue and in the case of any such failure the ENGINEER-IN-CHARGE may on expiry of notice period rectify or remove and re-execute the WORK or remove and replaced with others, the materials or articles complained of to as the case may be at the risk and expense in all respects of the CONTRACTOR. The decision of the Engineering-in-charge as to any question arising under this clause shall be final and conclusive.
77 Suspension of Works:	77.1	i) Subject to the provisions of sub-para (ii) of this clause, the CONTRACTOR shall, if ordered in writing by the ENGINEER-IN-CHARGE, or his representative, temporarily suspend the WORKS or any part thereof for such written order, proceed with the WORK therein ordered to be suspended until, he shall have received a written order to proceed there with. The CONTRACTOR shall not be entitled to claim compensation for any loss or damage sustained by him by reason of temporary suspension of the WORKS aforesaid. An extension of time for completion, corresponding with the delay caused by any such suspension of the WORKS as aforesaid will be granted to the CONTRACTOR should he apply for the same provided that the suspension was not consequent to any default or failure on the part of the CONTRACTOR.

- ii) In case of suspensions of entire WORK, ordered in writing by ENGINEER-IN-CHARGE, for a period of more than two months, the CONTRACTOR shall have the option to terminate the CONTRACT.
- 78 Employer may do part of work:**
- 78.1 Upon failure of the CONTRACTOR to comply with any instructions given in accordance with the provisions of this CONTRACT the EMPLOYER has the alternative right, instead of assuming charge of entire WORK, to place additional labour force, tools, equipments and materials on such parts of the WORK, as the EMPLOYER may designate or also engage another CONTRACTOR to carry out the WORK. In such cases, the EMPLOYER shall deduct from the amount which otherwise might become due to the CONTRACTOR, the cost of such work and material with ten percent (10%) added to cover all departmental charges and should the total amount thereof exceed the amount due to the CONTRACTOR, the CONTRACTOR shall pay the difference to the EMPLOYER.
- 79 Possession prior to completion:**
- 79.1 The ENGINEER-IN-CHARGE shall have the right to take possession of or use any completed or partially completed WORK or part of the WORK. Such possession or use shall not be deemed to be an acceptance of any work completed in accordance with the CONTRACT agreement. If such prior possession or use by the ENGINEER-IN-CHARGE delays the progress of WORK, equitable adjustment in the time of completion will be made and the CONTRACT agreement shall be deemed to be modified accordingly.
- 80 Defects Liability Period (Twelve months period of liability from the date of issue of completion certificate):**
- 80.1 The CONTRACTOR shall guarantee the installation/WORK for a period of 12 months from the date of completion of WORK as certified by the ENGINEER-IN-CHARGE which is indicated in the Completion Certificate. Any damage or defect that may arise or lie undiscovered at the time of issue of Completion Certificate, connected in any way with the equipment or materials supplied by him or in the workmanship, shall be rectified or replaced by the CONTRACTOR at his own expense as deemed necessary by the ENGINEER-IN-CHARGE or in default, the ENGINEER-IN-CHARGE may carry out such works by other work and deduct actual cost incurred towards labour, supervision and materials consumables or otherwise plus 100% towards overheads (of which the certificate of ENGINEER-IN-CHARGE shall be final) from any sums that may then be or at any time thereafter, become due to the CONTRACTOR or from his Contract Performance Security, or the proceeds of sale thereof or a sufficient part on thereof.
- 80.2 If the CONTRACTOR feels that any variation in WORK or in quality of materials or proportions would be beneficial or necessary to fulfil the guarantees called for, he shall bring this to the notice of the ENGINEER-IN-CHARGE in writing.
- If during the period of liability any portion of the WORK/equipment, is found defective and is rectified/ replaced, the period of liability for such equipment/ portion

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

80.3 LIMITATION OF LIABILITY

Notwithstanding anything contrary contained herein, the aggregate total liability of CONTRACTOR under the Agreement or otherwise shall be limited to 100% of Agreement / Contract Value. However, neither party shall be liable to the other party for any indirect and consequential damages, loss of profits or loss of production.

81 Care of works:

81.0 From the commencement to completion of the WORK, the CONTRACTOR shall take full responsibility for the care for all works including all temporary works and in case any damages, loss or injury shall happen to the WORK or to any part thereof or to any temporary works from any cause whatsoever, shall at his own cost repair and make good the same so that at completion the WORK shall be in good order and in conformity in every respects with the requirement of the CONTRACT and the ENGINEER-IN-CHARGE's instructions.

81.1 DEFECTS PRIOR TO TAKING OVER:

If at any time, before the WORK is taken over, the ENGINEER-IN-CHARGE shall:

- a) Decide that any works done or materials used by the CONTRACTOR or by any SUB-CONTRACTOR is defective or not in accordance with the CONTRACT, or that the works or any portion thereof are defective, or do not fulfill the requirements of CONTRACT (all such matters being hereinafter, called 'Defects' in this clause), and
- b) As soon as reasonably practicable, gives to the CONTRACTOR notice in writing of the said decision, specifying particulars of the defects alleged to exist or to have occurred, then the CONTRACTOR shall at his own expenses and with all speed make good the defects so specified.

In case CONTRACTOR shall fail to do so, the EMPLOYER may take, at the cost of the CONTRACTOR, such steps as may in all circumstances, be reasonable to make good such defects. The expenditure so incurred by the EMPLOYER will be recovered from the amount due to the CONTRACTOR. The decision of the ENGINEER-IN-CHARGE with regard to the amount to be recovered from the CONTRACTOR will be final and binding on the CONTRACTOR. As soon as the WORK has been completed in accordance with the CONTRACT (except in minor respects that do not affect their use for the purpose

for which they are intended and except for maintenance there of provided in clause 80.1 of General Conditions of Contract) and have passed the tests on completion, the ENGINEER-IN-CHARGE shall issue a certificate (hereinafter called Completion Certificate) in which he shall certify the date on which the WORK have been so completed and have passed the said tests and the EMPLOYER shall be deemed to have taken over the WORK on the date so certified. If the WORK has been divided into various groups in the CONTRACT, the EMPLOYER shall be entitled to take over any group or groups before the other or others and there upon the ENGINEER-IN-CHARGE shall issue a Completion Certificate which will, however, be for such group or groups so taken over only. In such an event if the group /section/ part so taken over is related, to the integrated system of the work, notwithstanding date of grant of Completion Certificate for group/ section/ part. The period of liability in respect of such group/ section/ part shall extend 12 (twelve) months from the date of completion of WORK.

81.2 DEFECTS AFTER TAKINGOVER:

In order that the CONTRACTOR could obtain a COMPLETION CERTIFICATE he shall make good, with all possible speed, any defect arising from the defective materials supplied by the CONTRACTOR or workmanship or any act or omission of the CONTRACT or that may have been noticed or developed, after the works or groups of the works has been taken over, the period allowed for carrying out such WORK will be normally one month. If any defect be not remedied within a reasonable time, the EMPLOYER may proceed to do the WORK at CONTRACTOR's risk and expense and deduct from the final bill such amount as may be decided by the EMPLOYER.

If by reason of any default on the part of the CONTRACTOR a COMPLETION CERTIFICATE has not been issued in respect of any portion of the WORK within one month after the date fixed by the CONTRACT for the completion of the WORK, the EMPLOYER shall be at liberty to use the WORK or any portion thereof in respect of which a completion certificate has not been issued, provided that the WORK or the portion thereof so used as aforesaid shall be afforded reasonable opportunity for completing these works for the issue of Completion Certificate.

82 **Guarantee/transfer of guarantee:**

82.1 For works like water-proofing, acid and alkali resisting materials, pre-construction soil treatment against termite or any other specialized works etc. the CONTRACTOR shall invariably engage SUB-CONTRACTORS who are specialists in the field and firms of repute and such a SUB-CONTRACTOR shall furnish guarantees for their workmanship to the EMPLOYER, through the CONTRACTOR. In case such a SUB-CONTRACTOR/firm is not prepared to furnish a guarantee to the EMPLOYER, the CONTRACTOR shall give that guarantee to the EMPLOYER directly.

83 Training of employer's personnel:

83.1 The CONTRACTOR undertakes to provide training to Engineering personnel selected and sent by the EMPLOYER at the works of the CONTRACTOR without any cost to the EMPLOYER. The period and the nature of training for the individual personnel shall be agreed upon mutually between the CONTRACTOR and the EMPLOYER. These engineering personnel shall be given special training at the shops, where the equipment will be manufactured and/ or in their collaborator's works and where possible, in any other plant where equipment manufactured by the CONTRACTOR or his collaborators is under installation or test to enable those personnel to become familiar with the equipment being furnished by the CONTRACTOR. EMPLOYER shall bear only the to and fro fare of the said engineering personnel.

84 Replacement of defective parts and materials:

84.1 If during the progress of the WORK, EMPLOYER shall decide and inform in writing to the CONTRACTOR, that the CONTRACTOR has manufactured any plant or part of the plant unsound or imperfect or has furnished plant inferior to the quality specified, the CONTRACTOR on receiving details of such defects or deficiencies shall at his own expenses within 7 (seven) days of his receiving the notice, or otherwise within such time as may be reasonably necessary for making it good, proceed to alter, re-construct or remove such work and furnish fresh equipments upto the standards of the specifications. In case the CONTRACTOR fails to do so, EMPLOYER may on giving the CONTRACTOR 7 (seven) day's notice in writing of his intentions to do so, proceed to remove the portion of the WORK so complained of and at the cost of CONTRACTOR's, perform all such works or furnish all such equipments provided that nothing in the clause shall be deemed to deprive the EMPLOYER of or affect any rights under the CONTRACT, the EMPLOYER may otherwise have in respect of such defects and deficiencies.

84.2 The CONTRACTOR's full and extreme liability under this clause shall be satisfied by the payments to the EMPLOYER of the extra cost, of such replacements procured including erection/installation as provided for in the CONTRACT; such extra cost being the ascertained difference between the price paid by the EMPLOYER for such replacements and the CONTRACT price portion for such defective plants and repayments of any sum paid by the EMPLOYER to the CONTRACTOR in respect of such defective plant. Should the EMPLOYER not so replace the defective plant the CONTRACTOR's extreme liability under this clause shall be limited to the repayment of all such sums paid by the EMPLOYER under the CONTRACT for such defective plant.

85 Indemnity

85.1 If any action is brought before a Court, Tribunal or any other Authority against the Employer or an officer or agent of the EMPLOYER, for the failure, omission or neglect on the part of the CONTRACTOR to perform any acts, matters, covenants or things under the CONTRACT, or damage or injury caused by the alleged omission or negligence on the part of the CONTRACTOR, his agents, representatives or his SUB- CONTRACTOR's, or in

connection with any claim based on lawful demands of SUB-CONTRACTOR's workmen suppliers or employees, the CONTRACTOR, shall in such cases indemnify and keep the EMPLOYER and/or their representatives harmless from all losses, damages, expenses or decrees arising out of such action.

86 Construction aids, equipments, tools & tackles:

86.1 CONTRACTOR shall be solely responsible for making available for executing the WORK, all requisite CONSTRUCTION EQUIPMENTS, Special Aids, Barges, Cranes and the like, all Tools, Tackles and Testing Equipment and Appliances, including imports of such equipment etc. as required. In case of import of the same the rates applicable for levying of Custom Duty on such Equipment, Tools, & Tackles and the duty drawback applicable thereon shall be ascertained by the CONTRACTOR from the concerned authorities of Government of India. It shall be clearly understood that EMPLOYER shall not in any way be responsible for arranging to obtain Custom Clearance and/or payment of any duties and/or duty draw backs etc. for such equipments so imported by the CONTRACTOR and the CONTRACTOR shall be fully responsible for all taxes, duties and documentation with regard to the same. Tenderer in his own interest may contact, for any clarifications in the matter, concerned agencies/Dept./Ministries of Govt. of India. All clarifications so obtained and interpretations thereof shall be solely the responsibility of the CONTRACTOR.

SECTION-VI CERTIFICATES AND PAYMENTS

87 Schedule of rates and payments:

87.1 i) CONTRACTOR'S REMUNERATION:

The price to be paid by the EMPLOYER to CONTRACTOR for the whole of the WORK to be done and for the performance of all the obligations undertaken by the CONTRACTOR under the CONTRACT DOCUMENTS shall be ascertained by the application of the respective Schedule of Rates (the inclusive nature of which is more particularly defined by way of application but not of limitation, with the succeeding sub-clause of this clause) and payment to be made accordingly for the WORK actually executed and approved by the ENGINEER-IN-CHARGE. The sum so ascertained shall (excepting only as and to the extent expressly provided herein) constitute the sole and inclusive remuneration of the CONTRACTOR under the CONTRACT and no further or other payment whatsoever shall be or become due or payable to the CONTRACTOR under the CONTRACT.

ii) SCHEDULE OF RATES TO BE INCLUSIVE:

The prices/rates quoted by the CONTRACTOR shall remain firm till the issue of FINAL CERTIFICATE and shall not be subject to escalation. Schedule of Rates shall be deemed to include and cover all costs, expenses and liabilities of every description and all risks of every kind to be taken in executing, completing and handing over the WORK to the EMPLOYER by the CONTRACTOR. The CONTRACTOR shall be deemed to have known the nature, scope, magnitude and the extent of the WORK and materials required though the CONTRACT DOCUMENT may not fully and precisely furnish them. Tenderer's shall make such provision in the Schedule of Rates as he may consider necessary to cover the cost of such items of WORK and materials as may be reasonable and necessary to complete the WORK. The opinion of the ENGINEER-IN-CHARGE as to the items of WORK which are necessary and reasonable for COMPLETION OF WORK shall be final and binding on the CONTRACTOR, although the same may not be shown on or described specifically in CONTRACT DOCUMENTS.

Generality of this present provision shall not be deemed to cut down or limit in any way because in certain cases it may and in other cases it may not be expressly stated that the CONTRACTOR shall do or perform a work or supply articles or perform services at his own cost or without addition of payment or without extra charge or words to the same effect or that it may be stated or not stated that the same are included in and covered by the Schedule of Rates.

iii) SCHEDULE OF RATES TO COVER CONSTRUCTION EQUIPMENTS, MATERIALS, LABOUR ETC.:

Without in any way limiting the provisions of the preceding sub-clause the Schedule of Rates shall be deemed to include and cover the cost of all construction equipment, temporary WORK (except as provided for herein), pumps, materials, labour, insurance, fuel, consumables, stores and appliances to be supplied by the CONTRACTOR and all other matters in connection with each item in the Schedule of Rates and the execution of the WORK or any portion thereof finished, complete in every respect and maintained as shown or described in the CONTRACT DOCUMENTS or as may be ordered in writing during the continuance of the CONTRACT.

iv) SCHEDULE OF RATES TO COVER ROYALTIES, RENTS AND CLAIMS:

The Schedule of Rates (i.e., VALUE OF CONTRACT) shall be deemed to include and cover the cost of all royalties and fees for the articles and processes,

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protected by letters, patent or otherwise incorporated in or used in connection with the WORK, also all royalties, rents and other payments in connection with obtaining materials of whatsoever kind for the WORK and shall include an indemnity to the EMPLOYER which the CONTRACTOR hereby gives against all actions, proceedings, claims, damages, costs and expenses arising from the incorporation in or use on the WORK of any such articles, processes or materials, octroi or other municipal or local Board Charges, if levied on materials, equipment or machineries to be brought to site for use on WORK shall be borne by the CONTRACTOR.

v) **SCHEDULE OF RATES TO COVER TAXES AND DUTIES:**

No exemption or reduction of Customs Duties, Excise Duties, Sales Tax, Sales Tax on works Contract quay or any port dues, transport charges, stamp duties or Central or State Government or local Body or Municipal Taxes or duties, taxes or charges (from or of any other body), whatsoever, will be granted or obtained, all of which expenses shall be deemed to be included in and covered by the Schedule or Rates. The CONTRACTOR shall also obtain and pay for all permits or other privileges necessary to complete the WORK.

vi) **SCHEDULE OF RATES TO COVER RISKS OF DELAY:**

The Schedule of Rates shall be deemed to include and cover the risk of all possibilities of delay and interference with the CONTRACTOR's conduct of WORK which occur from any causes including orders of the EMPLOYER in the exercise of his power and on account of extension of time granted due to various reasons and for all other possible or probable causes of delay.

vii) **SCHEDULE OF RATES CANNOT BE ALTERED:**

For WORK under unit rate basis, no alteration will be allowed in the Schedule of Rates by reason of works or any part of them being modified, altered, extended, diminished or committed. The Schedule of Rates are fully inclusive of rates which have been fixed by the CONTRACTOR and agreed to by the EMPLOYER and cannot be altered.

For lumpsum CONTRACTS, the payment will be made according to the WORK actually carried out, for which purpose an item wise, or work wise Schedule of Rates shall be furnished, suitable for evaluating the value of WORK done and preparing running account bill.

Payment for any additional work which is not covered in the Schedule of Rates, shall only be released on issuance of change order.

88 Procedure for measurement and billing of work in progress:

88.1 BILLING PROCEDURE:

Following procedures shall be adopted for billing of works executed by the CONTRACTOR.

88.1.1 All measurements shall be recorded in sextuplicate on standard measurement sheets supplied by EMPLOYER and submitted to EMPLOYER/CONSULTANT for scrutiny and passing.

88.1.2 EMPLOYER/CONSULTANT shall scrutinise and check the measurements recorded on the sheets and shall certify correctness of the same on the measurement sheets.

88.1.3 ENGINEER-IN-CHARGE shall pass the bills after carrying out the comprehensive checks in accordance with the terms and conditions of the CONTRACTS, within 7 days of submission of the bills, complete in all respects and send the same to the Employer to effect payment to the CONTRACTOR.

88.1.4 IGGL shall make all endeavour to make payments of undisputed amount of the bills submitted based on the joint measurements within 15 (Fifteen) days from the date of certification by the Engineer-in-Charge.

88.1.5 Measurements shall be recorded as per the methods of measurement spelt out in EMPLOYER/CONSULTANT SPECIFICATIONS / CONTRACT DOCUMENT. EMPLOYER/CONSULTANT shall be fully responsible for checking the measurements quantitatively and qualitatively as recorded in the Measurement Books/Bills.

88.1.6 While preparing the final bills overall measurements will not be taken again. Only volume of work executed since the last measured bill alongwith summary of final measurements will be considered for the final bill. However, a detailed check shall be made as to missing measurements and in case there are any missing items or measurements the same shall be recorded.

88.2 SECURED ADVANCE ON MATERIAL:

Unless otherwise provided elsewhere in the tender, no 'Secured Advance' on security of materials brought to site for execution of contracted items(s) shall be paid to the Contractor whatsoever.

88.3 DISPUTE IN MODE OF MEASUREMENT:

In case of any dispute as to the mode of measurement not covered by the CONTRACT to be adopted for any item of WORK, mode of measurement as per latest Indian Standard Specifications shall be followed.

88.4 ROUNDING-OFF OF AMOUNTS:

In calculating the amount of each item due to the CONTRACTOR in every certificate prepared for payment, sum of less than 50 paise shall be omitted and the total amount on each certificate shall be rounded off to the nearest rupees, i.e., sum of less than 50 paise shall be omitted and sums of 50 paise and more upto one rupee shall be reckoned as one rupee.

89 Lumpsum in tender:

89.1 The payment against any Lumpsum item shall be made only on completion of that item as per the provision of the CONTRACT after certification by ENGINEER-IN-CHARGE.

90 Running account payments to be regarded as advance:

90.1 All running account payments shall be regarded as payment by way of advance against the final payment only and not as payments for WORK actually done and completed and shall not preclude the requiring of bad, unsound and imperfect or unskilled work to be removed and taken away and reconstructed or re-erected or be considered as an admission of the due performance of the CONTRACT, or any part thereof, in this respect, or of the accruing of any claim by the CONTRACTOR, nor shall it conclude, determine or affect in any way the powers of the EMPLOYER under these conditions or any of them as to the final settlement and adjustment of the accounts or otherwise, or in any other way vary or affect the CONTRACT. The final bill shall be submitted by the CONTRACTOR within one month of the date of physical completion of the WORK, otherwise, the ENGINEER-IN-CHARGE's certificate of the measurement and of total amount payable for the WORK accordingly shall be final and binding on all parties

91 Notice of claims for additional payments:

91.1 Should the CONTRACTOR consider that he is entitled to any extra payment for any extra/additional WORKS or MATERIAL change in original SPECIFICATIONS carried out by him in respect of WORK he shall forthwith give notice in writing to the ENGINEER-IN-CHARGE that he claims extra payment. Such notice shall be given to the ENGINEER-IN-CHARGE upon which CONTRACTOR bases such claims and such notice shall contain full particulars of the nature of such claim with full details of amount claimed. Irrespective of any provision in the CONTRACT to the contrary, the CONTRACTOR must intimate his intention to lodge claim on the EMPLOYER within 10 (ten) days of the commencement of happening of the event and quantify the claim within 30 (thirty) days, failing which the CONTRACTOR will lose his right to claim any compensation/reimbursement/damages etc. or refer the matter to arbitration. Failure on the part of CONTRACTOR to put forward any claim without the necessary particulars as above within the time above specified shall be an absolute waiver thereof. No omission by EMPLOYER to reject any such claim and no delay in dealing therewith shall be waiver by EMPLOYER of any of this rights in respect thereof.

91.2 ENGINEER-IN-CHARGE shall review such claims within a reasonably period of time and cause to discharge these in a manner considered appropriate after due deliberations thereon. However, CONTRACTOR shall be obliged to carry

on with the WORK during the period in which his claims are under consideration by the EMPLOYER, irrespective of the outcome of such claims, where additional payments for WORKS considered extra are justifiable in accordance with the CONTRACT provisions, EMPLOYER shall arrange to release the same in the same manner as for normal WORK payments. Such of the extra works so admitted by EMPLOYER shall be governed by all the terms, conditions, stipulations and specifications as are applicable for the CONTRACT. The rates for extra works shall generally be the unit rates provided for in the CONTRACT. In the event unit rates for extra works so executed are not available as per CONTRACT, payments may either be released on day work basis for which daily/hourly rates for workmen and hourly rates for equipment rental shall apply, or on the unit rate for WORK executed shall be derived by interpolation/ extrapolation of unit rates already existing in the CONTRACT. In all the matters pertaining to applicability of rate and admittance of otherwise of an extra work claim of CONTRACTOR the decision of ENGINEER-IN-CHARGE shall be final and binding.

92 Payment of contractor's bill:	92.1	No payment shall be made for works estimated to cost less than Rs.10,000/- till the whole of the work shall have been completed and a certificate of completion given. But in case of works estimated to cost more than Rs.10,000/-, that CONTRACTOR on submitting the bill thereof be entitled to receive a monthly payment proportionate to the part thereof approved and passed by the ENGINEER-IN-CHARGE, whose certificate of such approval and passing of the sum so payable shall be final and conclusive against the CONTRACTOR. This payment will be made after making necessary corrections/deductions as stipulated elsewhere in the CONTRACT DOCUMENT for materials, Contract Performance Security, taxes etc.
	92.2	Payment due to the CONTRACTOR shall be made by the EMPLOYER by Account Payee cheque forwarding the same to registered office or the notified office of the CONTRACTOR. In no case will EMPLOYER be responsible if the cheque is mislaid or misappropriated by unauthorised person/persons. In all cases, the CONTRACTOR shall present his bill duly pre-receipted on proper revenue stamp payment shall be made in Indian Currency.
	92.3	In general payment of final bill shall be made to CONTRACTOR within 60 days of the submission of bill on joint measurements, after completion of all the obligations under the CONTRACT.
93 Receipt for payment:	93.1	Receipt for payment made on account of work when executed by a firm, must be signed by a person holding due power of attorney in this respect on behalf of the CONTRACTOR, except when the CONTRACTOR's are described in their tender as a limited company in which case the receipts must be signed in the name of the company by one of its principal officers or by some other person having authority to give effectual receipt for the company.

94 Completion certificate:

94.1 APPLICATION FOR COMPLETION CERTIFICATE:

When the CONTRACTOR fulfils his obligation under Clause 81.1 he shall be eligible to apply for COMPLETION CERTIFICATE.

The ENGINEER-IN-CHARGE shall normally issue to the CONTRACTOR the COMPLETION CERTIFICATE within one month after receiving any application therefore from the CONTRACTOR after verifying from the completion documents and satisfying himself that the WORK has been completed in accordance with and as set out in the construction and erection drawings, and the CONTRACT DOCUMENTS.

The CONTRACTOR, after obtaining the COMPLETION CERTIFICATE, is eligible to present the final bill for the WORK executed by him under the terms of CONTRACT.

94.2 COMPLETION CERTIFICATE:

Within one month of the completion of the WORK in all respects, the CONTRACTOR shall be furnished with a certificate by the ENGINEER-IN-CHARGE of such completion, but no certificate shall be given nor shall the WORK be deemed to have been executed until all scaffolding, surplus materials and rubbish is cleared off the SITE completely nor until the WORK shall have been measured by the ENGINEER-IN-CHARGE whose measurement shall be binding and conclusive. The WORKS will not be considered as complete and taken over by the EMPLOYER, until all the temporary works, labour and staff colonies are cleared to the satisfaction of the ENGINEER-IN-CHARGE.

If the CONTRACTOR fails to comply with the requirements of this clause on or before the date fixed for the completion of the WORK, the ENGINEER-IN-CHARGE may at the expense of the CONTRACTOR remove such scaffolding, surplus materials and rubbish and dispose off the same as he thinks fit and clean off such dirt as aforesaid, and the CONTRACTOR shall forthwith pay the amount of all expenses so incurred and shall have no claim in respect of any such scaffolding or surplus materials as aforesaid except for any sum actually realised by the sale thereof.

94.3 COMPLETION CERTIFICATE DOCUMENTS:

For the purpose of Clause 94.0 the following documents will be deemed to form the completion documents:

- i) The technical documents according to which the WORK was carried out.
- ii) Six (6) sets of construction drawings showing therein the modification and correction made during the course of execution and signed by the ENGINEER-IN-CHARGE.
- iii) COMPLETION CERTIFICATE for 'embedded' and 'covered' up work.
- iv) Certificates of final levels as set out for various works.

- v) Certificates of tests performed for various WORKS.
- vi) Material appropriation, Statement for the materials issued by the EMPLOYER for the WORK and list of surplus materials returned to the EMPLOYER's store duly supported by necessary documents.

95 Final decision and final certificate:	95.1	Upon expiry of the period of liability and subject to the ENGINEER-IN-CHARGE being satisfied that the WORKS have been duly maintained by the CONTRACTOR during monsoon or such period as herein before provided in Clause 80 & 81 and that the CONTRACTOR has in all respect duly made-up any subsidence and performed all his obligations under the CONTRACT, the ENGINEER-IN- CHARGE shall (without prejudice to the rights of the EMPLOYER to retain the provisions of relevant Clause hereof) otherwise give a certificate herein referred to as the FINAL CERTIFICATE to that effect and the CONTRACTOR shall not be considered to have fulfilled the whole of his obligations under CONTRACT until FINAL CERTIFICATE shall have been given by the ENGINEER-IN- CHARGE notwithstanding any previous entry upon the WORK and taking possession, working or using of the same or any part thereof by the EMPLOYER.
96 Certificate and payments on evidence of completion:	96.1	Except the FINAL CERTIFICATE, no other certificates or payments against a certificate or on general account shall be taken to be an admission by the EMPLOYER of the due performance of the CONTRACT or any part thereof or of occupancy or validity of any claim by the CONTRACTOR.
97 Deductions from the contract price:	97.1	All costs, damages or expenses which EMPLOYER may have paid or incurred, which under the provisions of the CONTRACT, the CONTRACTOR is liable/will be liable, will be claimed by the EMPLOYER. All such claims shall be billed by the EMPLOYER to the CONTRACTOR regularly as and when they fall due. Such claims shall be paid by the CONTRACTOR within 15 (fifteen) days of the receipt of the corresponding bills and if not paid by the CONTRACTOR within the said period, the EMPLOYER may, then, deduct the amount from any moneys due i.e., Contract Performance Security or becoming due to the CONTRACTOR under the CONTRACT or may be recovered by actions of law or otherwise, if the CONTRACTOR fails to satisfy the EMPLOYER of such claims.

SECTION-VII TAXES AND INSURANCE

98 Taxes, Duties, Octroi etc:	98.1	The CONTRACTOR agrees to and does hereby accept full and exclusive liability for the payment of any and all Taxes, Duties, including Excise duty, octroi etc. now or hereafter imposed, increased, modified, all the sales taxes, duties, octrois etc. now in force and hereafter increased, imposed or modified, from time to time in respect of WORKS and materials and all contributions and taxes for unemployment compensation, insurance and old age pensions or annuities



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now or hereafter imposed by any Central or State Government authorities which are imposed with respect to or covered by the wages, salaries, or other compensations paid to the persons employed by the CONTRACTOR and the CONTRACTOR shall be responsible for the compliance of all SUB-CONTRACTORS, with all applicable Central, State, Municipal and local law and regulation and requirement of any Central, State or local Government agency or authority. CONTRACTOR further agrees to defend, indemnify and hold EMPLOYER harmless from any liability or penalty which may be imposed by the Central, State or Local authorities by reason or any violation by CONTRACTOR or SUB-CONTRACTOR of such laws, suits or proceedings that may be brought against the EMPLOYER arising under, growing out of, or by reason of the work provided for by this CONTRACT, by third parties, or by Central or State Government authority or any administrative sub-division thereof.

Tax deductions will be made as per the rules and regulations in force in accordance with acts prevailing from time to time.

99 Sales tax/Turnover tax: 99.1 Tenderer should quote all inclusive prices including the liability of GST Turnover Tax whether on the works contract as a whole or in respect of bought out components used by the CONTRACTOR in execution of the CONTRACT. EMPLOYER shall not be responsible for any such liability of the CONTRACTOR in respect of this CONTRACT.

100 Statutory variations 100.1 Tenderer should quote prices inclusive of excise-duty and GST applicable on finished product. Any statutory variations in Excise Duty and sales tax/GST on finished product during the contractual completion period, shall be to the Employer's account for which the Contractor will furnish documentary evidence(s) in support of their claims to IGGL. However, any increase in the rate of these taxes and duties (E.D. and GST.) beyond the contractual completion period shall be to Contractor's account and any decrease shall be passed on to IGGL.

101 Insurance: 101.1 GENERAL

CONTRACTOR shall at his own expense arrange secure and maintain insurance with reputable insurance companies to the satisfaction of the EMPLOYER as follows:

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

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Any loss or damage to the equipment, during ocean transportation, port/custom clearance, inland and port handling, inland transportation, storage, erection and commissioning till such time the WORK is taken over by EMPLOYER, shall be to the account of CONTRACTOR. CONTRACTOR shall be responsible for preferring of all claims and make good for the damage or loss by way of repairs and/or replacement of the parts of the Work damaged or lost. CONTRACTOR shall provide the EMPLOYER with a copy of all insurance policies and documents taken out by him in pursuance of the CONTRACT. Such copies of document shall be submitted to the EMPLOYER immediately upon the CONTRACTOR having taken such insurance coverage. CONTRACTOR shall also inform the EMPLOYER at least 60(Sixty) days in advance regarding the expiry cancellation and/or changes in any of such documents and ensure revalidation/renewal etc., as may be necessary well in time.

Statutory clearances, if any, in respect of foreign supply required for the purpose of replacement of equipment lost in transit and/or during erection, shall be made available by the EMPLOYER. CONTRACTOR shall, however, be responsible for obtaining requisite licences, port clearances and other formalities relating to such import. The risks that are to be covered under the insurance shall include, but not be limited to the loss or damage in handling, transit, theft, pilferage, riot, civil commotion, weather conditions, accidents of all kinds, fire, war risk (during ocean transportation only) etc. The scope of such insurance shall cover the entire value of supplies of equipments, plants and materials to be imported from time to time.

All costs on account of insurance liabilities covered under CONTRACT will be to CONTRACTOR's account and will be included in VALUE OF CONTRACT. However, the EMPLOYER may from time to time, during the currency of the CONTRACT, ask the CONTRACTOR in writing to limit the insurance coverage risk and in such a case, the parties to the CONTRACT will agree for a mutual settlement, for reduction in VALUE OF CONTRACT to the extent of reduced premium amounts.

CONTRACTOR as far as possible shall cover insurance with Indian Insurance Companies, including marine Insurance during ocean transportation.

i) EMPLOYEES STATE INSURANCE ACT:

The CONTRACTOR agrees to and does hereby accept full and exclusive liability for the compliance with all obligations imposed by the Employee State Insurance Act 1948 and the CONTRACTOR further agrees to defend, indemnify and hold EMPLOYER harmless for any liability or penalty which may be imposed by the Central, State or Local authority by reason of any asserted violation by CONTRACTOR or SUB-CONTRACTOR of the Employees' State Insurance Act, 1948, and also from all claims, suits or



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proceeding that may be brought against the EMPLOYER arising under, growing out of or by reasons of the work provided for by this CONTRACTOR, by third parties or by Central or State Government authority or any political sub- division thereof.

The CONTRACTOR agrees to fill in with the Employee's State Insurance Corporation, the Declaration Forms, and all forms which may be required in respect of the CONTRACTOR's or SUB- CONTRACTOR's employees, who are employed in the WORK provided for or those covered by ESI from time to time under the Agreement. The CONTRACTOR shall deduct and secure the agreement of the SUB- CONTRACTOR to deduct the employee's contribution as per the first schedule of the Employee's State Insurance Act from wages and affix the Employees Contribution Card at wages payment intervals. The CONTRACTOR shall remit and secure the agreement of SUB-CONTRACTOR to remit to the State Bank of India, Employee's State Insurance Corporation Account, the Employee's contribution as required by the Act. The CONTRACTOR agrees to maintain all cards and Records as required under the Act in respect of employees and payments and the CONTRACTOR shall secure the agreement of the SUB- CONTRACTOR to maintain such records. Any expenses incurred for the contributions, making contributions or maintaining records shall be to the CONTRACTOR's or SUB-CONTRACTOR's account.

The EMPLOYER shall retain such sum as may be necessary from the total VALUE OF CONTRACT until the CONTRACTOR shall furnish satisfactory proof that all contributions as required by the Employees State Insurance Act, 1948, have been paid. This will be pending on the CONTRACTOR when the ESI Act is extended to the place of work.

ii) **WORKMEN COMPENSATION AND EMPLOYER'S LIABILITY INSURANCE:**

Insurance shall be effected for all the CONTRACTOR's employees engaged in the performance of this CONTRACT. If any of the work is sublet, the CONTRACTOR shall require the SUB-CONTRACTOR to provide workman's Compensation and employer's liability insurance for the later's employees if such employees are not covered under the CONTRACTOR's Insurance.

iii) **ACCIDENT OR INJURY TO WORKMEN:**

The EMPLOYER shall not be liable for or in respect of any damages or compensation payable at law in respect or in consequence of any accident or injury to any workman or other person in the Employment of the CONTRACTOR or any SUB-CONTRACTOR save and except an accident or injury resulting from any act or

default of the EMPLOYER, his agents or servants and the CONTRACTOR shall indemnify and keep indemnified the EMPLOYER against all such damages and compensation (save and except and aforesaid) and against all claims, demands, proceeding, costs, charges and expenses, whatsoever in respect or in relation thereto.

iv) TRANSIT INSURANCE

In respect of all items to be transported by the CONTRACTOR to the SITE of WORK, the cost of transit insurance should be borne by the CONTRACTOR and the quoted price shall be inclusive of this cost.

v) COMPREHENSIVE AUTOMOBILE INSURANCE

This insurance shall be in such a form as to protect the Contractor against all claims for injuries, disability, disease and death to members of public including EMPLOYER's men and damage to the property of others arising from the use of motor vehicles during on or off the 'site' operations, irrespective of the Employership of such vehicles.

vi) COMPREHENSIVE GENERAL LIABILITY INSURANCE

- a) This insurance shall protect the Contractor against all claims arising from injuries, disabilities, disease or death of member of public or damage to property of others due to any act or omission on the part of the Contractor, his agents, his employees, his representatives and Sub- Contractor's or from riots, strikes and civil commotion.
- b) Contractor shall take suitable Group Personal Accident Insurance Cover for taking care of injury, damage or any other risks in respect of his Engineers and other Supervisory staff who are not covered under Employees State Insurance Act.
- c) The policy shall cover third party liability. The third party (liability shall cover the loss/ disablement of human life (person not belonging to the Contractor) and also cover the risk of damage to others materials/ equipment/ properties during construction, erection and commissioning at site. The value of third party liability for compensation for loss of human life or partial/full disablement shall be of required statutory value but not less than Rs. 2 lakhs per death, Rs. 1.5 lakhs per full disablement and Rs. 1 lakh per partial disablement and shall nevertheless cover such compensation as may be awarded by Court by Law in India and cover for damage to others equipment/ property as approved by the Purchaser. However, third party risk shall be maximum to Rs. 10(ten) lakhs to death.



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- d) The Contractor shall also arrange suitable insurance to cover damage, loss, accidents, risks etc., in respect of all his plant, equipments and machinery, erection tools & tackles and all other temporary attachments brought by him at site to execute the work.
- e) The Contractor shall take out insurance policy in the joint name of EMPLOYER and Contractor from one or more nationalised insurance company from any branch office at Projects site.
- f) Any such insurance requirements as are hereby established as the minimum policies and coverages which Contractor must secure and keep in force must be complied with, Contractor shall at all times be free to obtain additional or increased coverages at Contractor's sole expenses.

vii) **ANY OTHER INSURANCE REQUIRED UNDER LAW OR REGULATIONS OR BY EMPLOYER:**

CONTRACTOR shall also carry and maintain any and all other insurance(s) which he may be required under any law or regulation from time to time without any extra cost to EMPLOYER. He shall also carry and maintain any other insurance which may be required by the EMPLOYER.

102 Damage to Property or to any Person or any Third Party

- 102.1 i) CONTRACTOR shall be responsible for making good to the satisfaction of the EMPLOYER any loss or any damage to structures and properties belonging to the EMPLOYER or being executed or procured or being procured by the EMPLOYER or of other agencies within the premises of all the work of the EMPLOYER, if such loss or damage is due to fault and/or the negligence or willful acts or omission of the CONTRACTOR, his employees, agents, representatives or SUB-CONTRACTORS.
- ii) The CONTRACTOR shall take sufficient care in moving his plants, equipments and materials from one place to another so that they do not cause any damage to any person or to the property of the EMPLOYER or any third party including overhead and underground cables and in the event of any damage resulting to the property of the EMPLOYER or of a third party during the movement of the aforesaid plant, equipment or materials the cost of such damages including eventual loss of production, operation or services in any plant or establishment as estimated by the EMPLOYER or ascertained or demanded by the third party shall be borne by the CONTRACTOR. Third party liability risk shall be Rupees One lakh for single accident and limited to Rupees Ten lakhs.
- iii) The CONTRACTOR shall indemnify and keep the EMPLOYER harmless of all claims for damages to property other than EMPLOYER's property arising

under or by reason of this agreement, if such claims result from the fault and/or negligence or willful acts or omission of the CONTRACTOR, his employees, agents, representative of SUB-CONTRACTOR.

SECTION-VIII LABOUR LAWS

103 Labour laws:

- 103.1 i) No labour below the age of 18 (eighteen) years shall be employed on the WORK.
- ii) The CONTRACTOR shall not pay less than what is provided under law to labourers engaged by him on the WORK.
- iii) The CONTRACTOR shall at his expense comply with all labour laws and keep the EMPLOYER indemnified in respect thereof.
- iv) The CONTRACTOR shall pay equal wages for men and women in accordance with applicable labour laws.
- v) If the CONTRACTOR is covered under the Contract labour (Regulation and Abolition) Act, he shall obtain a licence from licensing authority (i.e. office of the labour commissioner) by payment of necessary prescribed fee and the deposit, if any, before starting the WORK under the CONTRACT. Such fee/deposit shall be borne by the CONTRACTOR.
- vi) The CONTRACTOR shall employ labour in sufficient numbers either directly or through SUB-CONTRACTOR's to maintain the required rate of progress and of quality to ensure workmanship of the degree specified in the CONTRACT and to the satisfaction of the ENGINEER-IN-CHARGE.
- vii) The CONTRACTOR shall furnish to the ENGINEER-IN-CHARGE the distribution return of the number and description, by trades of the work people employed on the works. The CONTRACTOR shall also submit on the 4th and 19th of every month to the ENGINEER-IN-CHARGE a true statement showing in respect of the second half of the preceding month and the first half of the current month (1) the accidents that occurred during the said fortnight showing the circumstances under which they happened and the extent of damage and injury caused by them and (2) the number of female workers who have been allowed Maternity Benefit as provided in the Maternity Benefit Act 1961 on Rules made thereunder and the amount paid to them.
- viii) The CONTRACTOR shall comply with the provisions of the payment of Wage Act 1936, Employee Provident

Fund Act 1952, Minimum Wages Act 1948. Employers Liability Act 1938. Workmen's Compensation Act 1923, Industrial Disputes Act 1947, the Maternity Benefit Act 1961 and Contract Labour Regulation and Abolition Act 1970, Employment of Children Act 1938 or any modifications thereof or any other law relating thereto and rules made thereunder from time to time.

- ix) The ENGINEER-IN-CHARGE shall on a report having been made by an Inspecting Officer as defined in Contract Labour (Regulation and Abolition) Act 1970 have the power to deduct from the money due to the CONTRACTOR any sum required or estimated to be required for making good the loss suffered by a worker or workers by reason of non-fulfillment of the Conditions of the Contract for the benefit of workers, non-payment of wages or of deductions made from his or their wages which are not justified by the terms of the Contract or non-observance of the said regulations.
- x) The CONTRACTOR shall indemnify the EMPLOYER against any payments to be made under and for the observance of the provisions of the aforesaid Acts without prejudice to his right to obtain indemnity from his SUB-CONTRACTOR's. In the event of the CONTRACTOR committing a default or breach of any of the provisions of the aforesaid Acts as amended from time to time, of furnishing any information or submitting or filling and Form/ Register/ Slip under the provisions of these Acts which is materially incorrect then on the report of the inspecting Officers, the CONTRACTOR shall without prejudice to any other liability pay to the EMPLOYER a sum not exceeding Rs.50.00 as Liquidated Damages for every default, breach or furnishing, making, submitting, filling materially incorrect statements as may be fixed by the ENGINEER-IN-CHARGE and in the event of the CONTRACTOR's default continuing in this respect, the Liquidated Damages may be enhanced to Rs.50.00 per day for each day of default subject to a maximum of one percent of the estimated cost of the WORK put to tender. The ENGINEER-IN-CHARGE shall deduct such amount from bills or Contract Performance Security of the CONTRACTOR and credit the same to the Welfare Fund constitute under these acts. The decision of the ENGINEER-IN-CHARGE in this respect shall be final and binding.

104 Implementation of Apprentices Act, 1961:

- 104.1 The CONTRACTOR shall comply with the provisions of the Apprentices Act, 1961 and the Rules and Orders issued thereunder from time to time. If he fails to do so, his failure will be a breach of the CONTRACT and the ENGINEER-IN-CHARGE may, at his discretion, cancel the CONTRACT. The CONTRACTOR shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions, of the Act.

105 Contractor to indemnify the Employer:

105.1 i) The CONTRACTOR shall indemnify the EMPLOYER and every member, office and employee of the EMPLOYER, also the ENGINEER-IN-CHARGE and his staff against all actions, proceedings, claims, demands, costs and expenses whatsoever arising out of or in connection with the matters referred to in Clause 102.0 and elsewhere and all actions, proceedings, claims, demands, costs and expenses which may be made against the EMPLOYER for or in respect of or arising out of any failure by the CONTRACTOR in the performance of his obligations under the CONTRACT DOCUMENT. The EMPLOYER shall not be liable for or in respect of or arising out of any failure by the CONTRACTOR in the performance of his obligations under the CONTRACT DOCUMENT. The EMPLOYER shall not be liable for or in respect of any demand or compensation payable by law in respect or in consequence of any accident or injury to any workmen or other person. In the employment of the CONTRACTOR or his SUB-CONTRACTOR the CONTRACTOR shall indemnify and keep indemnified the EMPLOYER against all such damages and compensations and against all claims, damages, proceedings, costs, charges and expenses whatsoever in respect thereof or in relation thereto.

ii) PAYMENT OF CLAIMS AND DAMAGES:

Should the EMPLOYER have to pay any money in respect of such claims or demands as aforesaid the amount so paid and the costs incurred by the EMPLOYER shall be charged to and paid by the CONTRACTOR and the CONTRACTOR shall not be at liberty to dispute or question the right of the EMPLOYER to make such payments notwithstanding the same, may have been made without the consent or authority or in law or otherwise to the contrary.

iii) In every case in which by virtue of the provisions of Section 12, Sub-section (i) of workmen's compensation Act, 1923 or other applicable provision of Workmen Compensation Act or any other Act, the EMPLOYER is obliged to pay compensation to a workman employed by the CONTRACTOR in execution of the WORK, the EMPLOYER will recover from the CONTRACTOR the amount of the compensation so paid, and without prejudice to the rights of EMPLOYER under Section 12, Sub- section (2) of the said act, EMPLOYER shall be at liberty to recover such amount or any part thereof by deducting it from the Contract Performance Security or from any sum due to the CONTRACTOR whether under this CONTRACT or otherwise. The EMPLOYER shall not be bound to contest any claim made under Section 12, Sub-section (i) of the said act, except on the written request of the CONTRACTOR and upon his giving to the EMPLOYER full security for all costs for which the EMPLOYER might become liable in consequence of contesting such claim.

106 Health and sanitary arrangements for workers:

106.1 In respect of all labour directly or indirectly employed in the WORKS for the performance of the CONTRACTOR's part of this agreement, the CONTRACTOR shall comply with or cause to be complied with all the rules and regulations of the local sanitary and other authorities or as framed by the EMPLOYER from time to time for the protection of health and sanitary arrangements for all workers.

106.2 The CONTRACTOR shall provide in the labour colony all amenities such as electricity, water and other sanitary and health arrangements. The CONTRACTOR shall also provide necessary surface transportation to the place of work and back to the colony for their personnel accommodated in the labour colony.

SECTION-IX APPLICABLE LAWS AND SETTLEMENT OF DISPUTES

107 Arbitration:

107.1 Unless otherwise specified, the matters where decision of the Engineer-in-Charge is deemed to be final and binding as provided in the Agreement and the issues/disputes which cannot be mutually resolved within a reasonable time, all disputes shall be referred to arbitration by Sole Arbitrator.

The Employer [IGGL.] shall suggest a panel of three independent and distinguished persons to the bidder/contractor/supplier/buyer (as the case may be) to select any one among them to act as the Sole Arbitrator.

In the event of failure of the other parties to select the Sole Arbitrator within 30 days from the receipt of the communication suggesting the panel of arbitrators, the right of selection of the sole arbitrator by the other party shall stand forfeited and the EMPLOYER (IGGL) shall have discretion to proceed with the appointment of the Sole Arbitrator. The decision of Employer on the appointment of the sole arbitrator shall be final and binding on the parties.

The award of sole arbitrator shall be final and binding on the parties and unless directed/awarded otherwise by the sole arbitrator, the cost of arbitration proceedings shall be shared equally by the parties. The Arbitration proceedings shall be in English language and venue shall be Guwahati, India.

Subject to the above, the provisions of (Indian) Arbitration & Conciliation ACT 1996 and the Rules framed there under shall be applicable. All matter relating to this contract are subject to the exclusive jurisdiction of the court situated in the Guwahati, Assam, India.

Bidders/suppliers/contractors may please note that the Arbitration & Conciliation Act 1996 was enacted by the



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Indian Parliament and is based on United Nations Commission on International Trade Law (UNCITRAL model law), which were prepared after extensive consultation with Arbitral Institutions and centers of International Commercial Arbitration. The United Nations General Assembly vide resolution 31/98 adopted the UNCITRAL Arbitration rules on 15 December 1976.

107.2 FOR THE SETTLEMENT OF DISPUTES BETWEEN GOVERNMENT DEPARTMENT AND ANOTHER AND ONE GOVERNMENT DEPARTMENT AND PUBLIC ENTERPRISE AND ONE PUBLIC ENTERPRISE AND ANOTHER THE ARBITRATION SHALL BE AS FOLLOWS:

"In the event of any dispute or difference between the parties hereto, such dispute or difference shall be resolved amicably by mutual consultation or through the good offices of empowered agencies of the Government. If such resolution is not possible, then, the unresolved dispute or difference shall be referred to arbitration of an arbitrator to be nominated by Secretary, Department of Legal Affairs ("Law Secretary") in terms of the Office Memorandum No.55/3/1/75-CF, dated the 19th December 1975 issued by the Cabinet Secretariat (Department of Cabinet Affairs), as modified from time to time. The Arbitration Act 1940 (10 of 1940) shall not be applicable to the arbitration under this clause. The award of the Arbitrator shall be binding upon parties to the dispute. Provided, however, any party aggrieved by such award may make a further reference for setting aside or revision of the award to Law Secretary whose decision shall bind the parties finally and conclusively.

108 Jurisdiction:

108.1 The CONTRACT shall be governed by and constructed according to the laws in force in INDIA. The CONTRACTOR hereby submits to the jurisdiction of the Courts situated at **GUWAHATI, ASSAM** for the purposes of disputes, actions and proceedings arising out of the CONTRACT, the courts at **GUWAHATI, ASSAM** only will have the jurisdiction to hear and decide such disputed, actions and proceedings.

SECTION-X SAFETY CODES

109 General:

109.1 CONTRACTOR shall adhere to safe construction practice and guard against hazardous, and unsafe working conditions and shall comply with EMPLOYER's safety rules as set forth herein. Prior to start of construction, CONTRACTOR will be furnished copies of EMPLOYER's "Safety Code" for information and guidance, if it has been prepared.

110 Safety regulations:

110.1 i) In respect of all labour, directly employed in the WORK for the performance of CONTRACTOR's part



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of this agreement, the CONTRACTOR shall at his own expense arrange for all the safety provisions as per safety codes of C.P.W.D., Indian Standards Institution. The Electricity Act, The Mines / Factory Act and such other acts as applicable.

- ii) The CONTRACTOR shall observe and abide by all fire and safety regulations of the EMPLOYER. Before starting construction work CONTRACTOR shall consult with EMPLOYER's safety Engineers or ENGINEER-IN-CHARGE and must make good to the satisfaction of the EMPLOYER any loss or damage due to fire to any portion of the work done or to be done under this agreement or to any of the EMPLOYER's existing property.

111 First aid and industrial injuries:

- 111.1 i) CONTRACTOR shall maintain first aid facilities for its employees and those of its SUB-CONTRACTOR.
- ii) CONTRACTOR shall make outside arrangements for ambulance service and for the treatment of industrial injuries. Names of those providing the services shall be furnished to EMPLOYER prior to start of construction and their telephone numbers shall be prominently posted in CONTRACTOR's field office.
- iii) All critical industrial injuries shall be reported promptly to EMPLOYER, and a copy of CONTRACTOR's report covering each personal injury requiring the attention of a physician shall be furnished to the EMPLOYER.

112 General rules:

- 112.1 Smoking within the battery area, tank farm or dock limits is strictly prohibited. Violators of the no smoking rules shall be discharged immediately.

113 Contractor's barricades:

- 113.1 i) CONTRACTOR shall erect and maintain barricades required in connection with his operation to guard or protect:-
 - a) Excavations
 - b) Hoisting Areas.
 - c) Areas adjudged hazardous by CONTRACTOR's or EMPLOYER's inspectors.
 - d) EMPLOYER's existing property subject to damage by CONTRACTOR's Operations.
 - e) Rail Road unloading spots.
- ii) CONTRACTOR's employees and those of his SUB-CONTRACTOR's shall become acquainted with EMPLOYER's barricading practice and shall respect the provisions thereof.
- iii) Barricades and hazardous areas adjacent to, but not located in normal routes of travel shall be marked by red flasher lanterns at nights.

114 Scaffolding:

- 114.1 i) Suitable scaffolding should be provided for workmen for all works that cannot safely be done from the ground or from solid construction except such short period work as can be done safely from ladders. When a ladder is

used an extra Mazdoor shall be engaged for holding the ladder and if the ladder is used for carrying material as well, suitable footholds and handholds shall be provided on the ladder and the ladder shall be given an inclination not steeper than 1 in 4 (1 horizontal and 4 vertical).

- ii) Scaffolding or staging more than 4 metres above the ground or floor, swing suspended from an overhead support or erected with stationary support shall have a guard rail properly attached, bolted, braced and otherwise retarded at least one metre high above the floor or platform of such scaffolding or staging and extending along the entire length of the outside and ends thereof with only such openings as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.
- iii) Working platform, gangway and stairway should be so constructed that they should not sag unduly or unequally and if the height of platform of the gangway or the stairway is more than 4 metres above the ground level or floor level, they should be closely boarded, should have adequate width and should be suitably fastened as in ii) above.
- iv) Every opening in the floor of a building or in a working platform shall be provided with suitable means to prevent the fall of persons or materials by providing suitable fencing of railing whose minimum heights shall be 1 metre.
- v) Safe-means of access shall be provided to all working platforms and other working places, every ladder shall be securely fixed. No portable single ladder shall be over 9 metres in length while the width between side rails in rung ladder shall in no case be less than 30 cms for ladder upto and including 3 metres in length. For longer ladder this width should be increased 5mm for each additional foot of length. Uniform steps spacing shall not exceed 30 cms. Adequate precautions shall be taken to prevent danger from electrical equipment. No materials on any of the sites or work shall be so stacked or placed to cause danger or inconvenience to any person or public. The CONTRACTOR shall also provide all necessary fencing and lights to protect the workers and staff from accidents, and shall be bound to bear the expenses of defense of every suit, action or other proceeding of law that may be brought by any person for injury sustained owing to neglect of the above precautions and pay any damages and costs which may be awarded in any such suit or action or proceeding to any such person or which may with the consent of the CONTRACTOR be paid to compromise any claim by any such person.

115 Excavation and trenching:

- 115.1 All trenches 1.2 metres or more in depth, shall at all times be supplied with at least one ladder for each 50 metres length or fraction thereof.

Ladder shall be extended from bottom of the trenches to atleast 1 metre above the surface of the ground. The sides of the trenches which are 1.5M in depth shall be stepped back to give suitable slope or securely held by timber bracing, so as to avoid the danger of sides to collapse. The excavated materials shall not be placed within 1.5 metres of the edge of the trench or half of the trench width whichever is more. Cutting shall be done from top to bottom. Under no circumstances undermining or under-cutting shall be done.

- 116 Demolition/general safety:**
- 116.1 i) Before any demolition work is commenced and also during the progress of the demolition work
- a) All roads and open areas adjacent to the work site shall either be closed or suitably protected.
 - b) No electric cable or apparatus which is liable to be a source of danger shall remain electrically charged.
 - c) All practical steps shall be taken to prevent danger to persons employed from risk of fire or explosion or flooding. No floor, roof or other part of the building shall be so overloaded with debris or materials as to render it unsafe.
- ii) All necessary personal safety equipment as considered adequate by the ENGINEER-IN-CHARGE, should be kept available for the use of the persons employed on the SITE and maintained in condition suitable for immediate use, and the CONTRACTOR shall take adequate steps to ensure proper use of equipment by those concerned.
- a) Workers employed on mixing asphaltic materials, cement and lime mortars shall be provided with protective footwear and protective gloves.
 - b) Those engaged in white washing and mixing or stacking or cement bags or any material which are injurious to the eyes be provided with protective goggles.
 - c) Those engaged in welding and cutting works shall be provided with protective face & eye shield, hand gloves, etc.
 - d) Stone breakers shall be provided with protective goggles and protective clothing and seated at sufficiently safe intervals.
 - e) When workers are employed in sewers and manholes, which are in use, the CONTRACTOR shall ensure that the manhole covers are opened and are ventilated atleast for an hour before the workers are allowed to get into the manholes, and the manholes so opened shall be cordoned off with

suitable railing and provided with warning signals or board to prevent accident to the public.

- f) The CONTRACTOR shall not employ men below the age of 18 years and women on the work of painting with products containing lead in any form. Wherever men above the age of 18 years are employed on the work of lead painting, the following precautions should be taken.
 - 1) No paint containing lead or lead product shall be used except in the form of paste or readymade paint.
 - 2) Suitable face masks should be supplied for use by the workers when paint is applied in the form of spray or a surface having lead paint dry rubbed and scrapped.
 - 3) Overalls shall be supplied by the CONTRACTOR to the workmen and adequate facilities shall be provided to enable the working painters to wash them during and on cessation of Work.
- iii) When the work is done near any place where there is risk of drowning, all necessary safety equipment should be provided and kept ready for use and all necessary steps taken for prompt rescue of any person in danger and adequate provision should be made for prompt first aid treatment of all injuries likely to be sustained during the course of the work.
- iv) Use of hoisting machines and tackles including their attachments, anchorage and supports shall conform to the following standards or conditions:
 - a) These shall be of good mechanical construction, sound materials and adequate strength and free from patent defect and shall be kept in good working order.
 - b) Every rope used in hoisting or lowering materials or as means of suspension shall be of durable quality and adequate strength and free from patent defects.
 - c) Every crane driver or hoisting appliance operator shall be properly qualified and no person under the age of 21 years should be in charge of any hoisting machine including any scaffolding, winch or give signals to the operator.
 - d) In case of every hoisting machine and of every chain ring hook, shackle, swivel, and pulley block used in hoisting or lowering or as means of suspension, the safe working load shall be ascertained by adequate means. Every hoisting machine and all gears referred to above shall be plainly marked with the safe working load of the

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conditions under which it is applicable and the same shall be clearly indicated. No part of any machine or any gear referred to above in this paragraph shall be loaded beyond safe working load except for the purpose of testing.

- e) In case of departmental machine, the safe working load shall be notified by the ENGINEER-IN-CHARGE. As regards CONTRACTOR's machines, the CONTRACTOR shall notify the safe working load of the machine to the ENGINEER-IN-CHARGE whenever he brings any machinery to SITE of WORK and get it verified by the Engineer concerned.
- v) Motors, gears, transmission lines, electric wiring and other dangerous parts of hoisting appliances should be provided with efficient safeguards. Hoisting appliances should be provided with such means as to reduce to minimum the accidental descent of the load, adequate precautions should be taken to reduce the minimum risk of any part or parts of a suspended load becoming accidentally displaced. When workers are employed on electrical installations which are already energised, insulating mats, wearing apparel, such as gloves, sleeves, and boots as may be necessary should be provided. The workers shall not wear any rings, watches and carry keys or other materials which are good conductors of electricity.
- vi) All scaffolds, ladders and other safety devices mentioned or described herein shall be maintained in safe conditions and no scaffolds, ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities should be provided at or near places of Work.
- vii) These safety provisions should be brought to the notice of all concerned by displaying on a notice board at a prominent place at the work-spot. The person responsible for compliance of the safety code shall be named therein by the CONTRACTOR.
- viii) To ensure effective enforcement of the rules and regulations relating to safety precautions, the arrangements made by the CONTRACTOR shall be open to inspection by the Welfare Officer, ENGINEER-IN-CHARGE or safety Engineer of the Administration or their representatives.
- ix) Notwithstanding the above clauses there is nothing in these to exempt the CONTRACTOR for the operations of any other Act or rules in force in the Republic of India. The work throughout including any temporary works shall be carried out in such a manner as not to interfere in any way whatsoever with the traffic on any roads or footpath at the site or in the vicinity thereto or any existing works whether the property of the Administration or of a third party.

In addition to the above, the CONTRACTOR shall abide by the safety code provision as per C.P.W.D. Safety code and Indian Standard Safety Code from time to time.

117 Care in handling inflammable gas:	117.1	The CONTRACTOR has to ensure all precautionary measures and exercise utmost care in handling the inflammable gas cylinder/inflammable liquids/paints etc. as required under the law and/or as advised by the fire Authorities of the EMPLOYER.
118 Temporary combustible structures:	118.1	Temporary combustible structures will not be built near or around work site.
119 Precautions against fire:	119.1	The CONTRACTOR will have to provide Fire Extinguishers, Fire Buckets and drums at worksite as recommended by ENGINEER-IN-CHARGE. They will have to ensure all precautionary measures and exercise utmost care in handling the inflammable gas cylinders/ inflammable liquid/ paints etc. as advised by ENGINEER-IN- CHARGE. Temporary combustible structures will not be built near or around the work-site.
120 Explosives:	120.1	Explosives shall not be stored or used on the WORK or on the SITE by the CONTRACTOR without the permission of the ENGINEER-IN-CHARGE in writing and then only in the manner and to the extent to which such permission is given. When explosives are required for the WORK they will be stored in a special magazine to be provided at the cost of the CONTRACTOR in accordance with the Explosives Rules. The CONTRACTOR shall obtain the necessary licence for the storage and the use of explosives and all operations in which or for which explosives are employed shall be at sole risk and responsibility of the CONTRACTOR and the CONTRACTOR shall indemnify the EMPLOYER against any loss or damage resulting directly or indirectly therefrom.
121 Mines /Factories Act:	121.1	SAFETY CODE: The CONTRACTOR shall at his own expense arrange for the safety provisions as required by the ENGINEER-IN-CHARGE in respect of all labour directly employed for performance of the WORKS and shall provide all facilities in connection therewith. In case the CONTRACTOR fails to make arrangements and provides necessary facilities as aforesaid, the ENGINEER-IN- CHARGE shall be entitled to do so and recover the costs thereof from the CONTRACTOR.
	121.2	Failure to comply with Safety Code or the provisions relating to report on accidents and to grant of maternity benefits to female workers shall make the CONTRACTOR liable to pay Company Liquidated Damages an amount not exceeding Rs.50/- for each default or materially incorrect statement. The decision of the ENGINEER-IN-CHARGE in such matters based on reports from the Inspecting Officer or from representatives of ENGINEER-IN-CHARGE shall be final and binding and deductions for recovery of such Liquidated Damages may be made from any amount payable to the CONTRACTOR from all the provisions of

the Mines Act, 1952 / Factory Act 1948 or any statutory modifications or re-enactment thereof the time being in force and any Rules and Regulations made thereunder in respect of all the persons employed by him under this CONTRACT and shall indemnify the EMPLOYER from and against any claim under the Mines Act or the rules and regulations framed thereunder by or on behalf of any persons employed by him or otherwise.

122 Preservation of place:	122.1	The CONTRACTOR shall take requisite precautions and use his best endeavours to prevent any riotous or unlawful behaviour by or amongst his worker and others employed or the works and for the preservation of peace and protection of the inhabitants and security of property in the neighborhood of the WORK. In the event of the EMPLOYER requiring the maintenance of a Special Police Force at or in the vicinity of the site during the tenure of works, the expenses thereof shall be borne by the CONTRACTOR and if paid by the EMPLOYER shall be recoverable from the CONTRACTOR.
123 Outbreak of infectious diseases:	123.1	The CONTRACTOR shall remove from his camp such labour and their facilities who refuse protective inoculation and vaccination when called upon to do so by the ENGINEER-IN-CHARGE's representative. Should Cholera, Plague or other infectious diseases break out the CONTRACTOR shall burn the huts, beddings, clothes and other belongings or used by the infected parties and promptly erect new huts on healthy sites as required by the ENGINEER-IN-CHARGE failing which within the time specified in the Engineer's requisition, the work may be done by the EMPLOYER and the cost thereof recovered from the CONTRACTOR.
124 Use of intoxicants:	124.1	The unauthorised sale of spirits or other intoxicants, beverages upon the work in any of the buildings, encampments or tenements owned, occupied by or within the control of the CONTRACTOR or any of his employee is forbidden and the CONTRACTOR shall exercise his influence and authority to the utmost extent to secure strict compliance with this condition. In addition to the above, the CONTRACTOR shall abide by the safety code provision as per C.P.W.D. safety code and Indian Standard Code framed from time to time.

PROFORMA OF INDEMNITY BOND FOR SUPPLY OF MATERIALS BY EMPLOYER

(To be executed on non-judicial stamped paper of appropriate value)

WHEREAS IGGL. (hereinafter referred to as IGGL) which expression shall unless repugnant to the context includes their legal representatives, successors and assigns having their office at 5th floor, Central Mall, Christian Basti, Guwahati, Assam has entered into a CONTRACT with _____ (hereinafter referred to as the CONTRACTOR which expression shall unless repugnant to the context include their legal representatives, successors and assigns) for _____ on the terms and conditions as setout, inter-alia, in the CONTRACT No. Dated..... and various documents forming part thereof hereinafter collectively referred to as the "CONTRACT" which expression shall include all amendments, modifications and/or variations thereto.

AND WHEREAS

- i) IGGL has agreed to supply to the CONTRACTOR, equipment, plants and materials (finished, semi-finished and raw) for the purpose of EXECUTION of the said CONTRACT by the CONTRACTOR (the equipment, plants and materials to be supplied by IGGL to the CONTRACTOR, hereinafter for the sake of brevity referred to as the "said materials") and pending execution by the CONTRACTOR of the CONTRACT incorporating the said materials, the said materials shall be under the custody and charge of the CONTRACTOR and shall be kept, stored, altered, worked upon and/or fabricated at the sole risk and expense of the CONTRACTOR.
- ii) As a pre-condition to the supply of the said materials by IGGL to the CONTRACTOR, IGGL has required the CONTRACTOR to furnish to IGGL an Indemnity Bond in the manner and upon terms and conditions hereinafter indicated.

NOW, THEREFORE, in consideration of the premises aforesaid the CONTRACTOR hereby irrevocably and unconditionally undertakes to indemnify and keep indemnified IGGL from and against all loss, damage and destruction (inclusive but not limited to any or all loss or damage or destruction to or of the said materials or any item or part thereof by theft, pilferage, fire, flood, storm, tempest, lightning, explosion, storage, chemical or physical action or reaction, binding, warping, exposure, rusting, faulty workmanship, faulty fabrication, or faulty method or technique of fabrication, strike, riot, civil commotion, or other actor omission or commission whatsoever within or beyond the control of the CONTRACTOR, misuse and misappropriation (inclusive but not limited to the misuse or misappropriation by the CONTRACTOR and the Contractor's servants and/or agents) whatsoever to, or of in the said materials or any part of them thereof from the date that the same or relative part of item thereof was supplied to the CONTRACTOR upto and until the date of return to IGGL of the said materials or relative part of item thereof or completed fabricated works(s) incorporating the said material and undertake to pay to IGGL forthwith on demand in writing without protest or demur the value as specified by IGGL of the said material or item or part



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thereof, lost, damaged, destroyed, misused and/or misappropriated, as the case may be or, together with IGGL'S costs and expenses (inclusive of but not limited to handling, transportation, cartage, insurance, freight, packing and inspection costs/or expenses upto) and aggregate limit of Rs. _____

(Rupees _____ Only).

AND THE CONTRACTOR hereby agrees with IGGL that:

- i) This Indemnity/Undertaking shall be a continuing Indemnity/ Undertaking and shall remain valid and irrevocable for all claims of IGGL arising hereunder upto and until the midnight of _____. However, if the CONTRACT for which this Indemnity/Undertaking is given is not completed by this date, the CONTRACTOR hereby agrees to extend the Indemnity/Undertaking till such time as is required to fulfil the CONTRACT.
- ii) This Indemnity/Undertaking shall not be determined by any change in constitution or upon insolvency of the CONTRACTOR but shall be in all respects and for all purposes be binding and operative until payment of all moneys payable to IGGL in terms of hereof.
- iii) The mere statement of allegation made by or on behalf of IGGL in any notice or demand or other writing addressed to the CONTRACTOR as to any of the said material or item or part thereof having been lost , damaged, destroyed, misused or misappropriated while in the custody of the CONTRACTOR and/or prior to completion of the completed fabricated work(s) and delivery to job site thereof incorporating the said materials shall be conclusive of the factum of the said material or item or part thereof having been supplied to the CONTRACTOR and/or the loss, damage, destruction, misuse or misappropriation thereof, as the case may be, while in the custody of the CONTRACTOR and/or prior to the completion of the completed fabricated work(s) and delivery to job site thereof incorporating the said materials without necessity on the part of IGGL to produce any documentary proof or other evidence whatsoever in support of this.
- iv) The amount stated in any notice of demand addressed by IGGL to the CONTRACTOR as to the value of such said materials lost, damaged, destroyed, misused or misappropriated, inclusive relative to the costs and expenses incurred by IGGL in connection therewith shall be conclusive of the value of such said materials and the said cost and expenses as also of the amount liable to be paid to IGGL to produce any voucher, bill or other documentation or evidence whatsoever in support thereof and such amount shall be paid without any demur and on demand and no dispute shall be raised concerning the same.



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The undersigned has full power to execute this Indemnity Bond on behalf of the CONTRACTOR under the Power of Attorney dated _____.

(SIGNED BY COMPETENT AUTHORITY)

Place:

Dated:

Official seal of the CONTRACTOR



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PROFORMA FOR CONTRACT AGREEMENT

LOA No. IGGL/

Dated _____

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.



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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.

A N D

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.



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The 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 EMPLOYER.

Signed and Delivered for and
on behalf of the CONTRACTORS.

IGGL

(NAME OF THE CONTRACTOR)

Date: _____

Date: _____

Place: _____

Place: _____

IN PRESENCE OF TWO WITNESSES

1. _____

1. _____

2. _____

2. _____

SECTION – V
SPECIAL CONDITION OF CONTRACTS
(SCC)
&
ANNEXURES to SCC

 IGGL	OIL & GAS SBU	LAST MILE CONNECTIVITY WORK INSIDE NRL PREMISES UNDER GUWAHATI-NUMALIGARH PIPELINE (SECTION-1) FOR NORTH EAST GAS GRID (NEGG) PIPELINE PROJECT	 MECON LTD, DELHI
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SECTION - V **SPECIAL CONDITION OF CONTRACT** **(SCC)**

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1.0 GENERAL

- 1.1 Special Conditions of Contract shall be read in Conjunction with the General conditions of Contract, specification of work, Drawings and any other documents forming part of this Contract wherever the context so requires.
- 1.2 Notwithstanding the sub-division of the documents into these separate sections and volumes, every part of each shall be deemed to be supplementary to and complementary of every other part and shall be read with and into the Contract so far as it may be practicable to do so.
- 1.3 Where any portion of the General Condition of Contract is repugnant to or at variance with any provisions of the Special Conditions of Contract, unless a different intention appears, the provisions of the special Conditions of Contract shall be deemed to over-ride the provisions of the General Conditions of Contract and shall to the extent of such repugnancy, or variations, prevail.
- 1.4 Wherever it is mentioned in the specifications that the Contractor shall perform certain work or provide certain facilities, it is understood that the Contractor shall do so at his own cost and the value of contract shall be deemed to have included cost of such performance and provisions, so mentioned.
- 1.5 The materials, design, and workmanship shall satisfy the relevant Indian Standards, the Job Specifications contained herein and Codes referred to. Where the job specification stipulate requirements in addition to those contained in the standard codes and specifications, these additional requirements shall also be satisfied.
- 1.6 Void
- 1.7 It will be the Contractor's responsibility to bring to the notice of Engineer-in-Charge any irreconcilable conflict in the contract documents before starting the work (s) or making the supply with reference which the conflict exists.
- 1.8 In the absence of any Specifications covering any material, design of work (s) the same shall be performed / supplies / executed in accordance with Standard Engineering Practice as per the instructions / directions of the Engineer-in-Charge, which will be binding on the Contractor.

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2.0 **SCOPE OF WORK & SCOPE OF SUPPLY**

The scope of work covered in this Contract will be as described in **Annexure-1 to SCC**, Particular job specifications, Standard Specifications, Schedule of Rates etc. The scope of supply covered in this Contract will be as described in **Annexure-2 to SCC**, Particular Job Specifications, Standard Specifications, Schedule of Rates etc. It is however, explicitly understood that scope described is not limiting, in far as the responsibilities of the contractor are concerned and shall include, inter alia, carrying out any and all works and providing any and all facilities as are required to complete the works in all respect.

3.0 **SUPPLY OF WATER, POWER & OTHER UTILITIES**

3.1 The Clause No. 2.3 to 2.5 given in General Conditions of Contract is modified to following extent:

3.2 The Contractor shall be responsible at his own cost for arranging and providing all the required Water, Power, land required for temporary site office , fabrication yard and other utilities, in the quantities and at the times required for performance of work under the contract. The contract price shall be deemed to include all costs towards the same.

The Employer/Consultant shall not supply water, power and other utilities.

3.3 Contractor shall, if required by him, for the entire duration of the execution of the work make available near the site, land for construction of Contractor's office, Warehouse, Workshops and for any purpose in connection with providing infrastructure required for the execution of the Contract. The Contractor shall at his own cost construct all temporary buildings and provide suitable water supply and sanitary arrangement as required. On completion of the work undertaken by the Contractor, he shall remove all temporary works erected by him and have the site cleared as directed by Engineer-in-Charge. If the Contractor shall fail to comply with these requirements, the Engineer-in-Charge may at the expense of the Contractor remove such surplus and rubbish materials and dispose off the same as he deems fit and get the site cleared as aforesaid, and the Contractor shall forthwith pay the amount of all expenses so incurred and shall have no claims in respect of any such surplus material disposed of as aforesaid.

3.4 Cutting of trees shall not be permitted except in the case that tree is falling on the line of ROU/ROW. In such circumstances, details of such tree being cut

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shall be prepared and forest/ municipal authorities be informed and necessary approval be obtained by contractor.

4.0 COMPLETION SCHEDULE / COMPLETION PERIOD

- 4.1 The work shall be executed strictly as per completion schedule / completion period given in **Annexure-3 to SCC** in the bidding document. The period of completion given includes the time required for mobilization as well as testing, rectifications, if any, retesting and completion in all respects to the entire satisfaction of the Engineer-in-Charge.
- 4.2 A joint programme of execution of work will be prepared by the Engineer-in-Charge and Contractor. This programme will take into account the time of completion mentioned above.
- 4.3 Monthly/ weekly construction programme will be drawn up by Engineer-in-Charge jointly with the contractor based on availability of work fronts and the joint construction programmes as above clause. The Contractor shall scrupulously adhere to these Targets/ Programme by deploying adequate personnel, construction tools & tackles and shall also supply all materials of his scope of supply in good time to achieve the targets set out in the weekly and monthly programme. In all matters concerning the extent of targets set out in the weekly and achievements, the decision of the Engineer-in-Charge shall be final and binding on the contractor.
- 4.4 If the Contractor fails to achieve the targeted progress schedule of each month as mentioned in the bidding document, the Employer/Consultant at its option, may terminate the contract as contractor's default and get the work completed from other sources at contractor's risk & cost.
- 4.5 Contractor shall give every day report on category wise labour and equipment deployed along with the progress of work done on previous day in the proforma prescribed by the Engineer-in-Charge.
- 4.6 The contractor shall submit fortnightly report covering all major activities indicating schedule / actual progress, slippages & its reasons and catch up plan.
- 4.7 The Bidder shall also consider local labour / Trade unionism in the state while quoting. No waiver shall be attributable to the stoppage due to union activities & due to the influence of trade unionism and adverse weather conditions.

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5.0 **DRAWINGS AND DOCUMENTS**

- 5.1 The drawings accompanying the bid document (if any) are of indicative nature and issued for bidding purpose only. Purpose of these drawing is to enable the bidder to make an offer in line with the requirements of the Employer/Consultant. However no extra claim whatsoever, shall be entertained for variation in the "Approved for Construction" and "Bid document drawings" regarding any changes/units. Construction shall be as per drawings/specifications issued/approved by the Engineer-in-Charge during the course of execution of work. Detailed construction drawings (wherever required) on the basis of which actual execution of work is to proceed will be prepared by the contractor.
- 5.2 The drawings and documents to be submitted by the Contractor to Employer/Consultant after award of the work as per the requirements enlisted in the bidding document shall be for Employer/Consultant's review, information and record. The Contractor shall ensure that drawings and documents submitted to Employer/Consultant are accompanied by relevant calculations, data as required and essential for review of the document/drawings. MECON shall review the drawings/ documents within two weeks from the date of submission provided the same are accompanied by relevant calculations, data as required and essential for review.
- 5.3 All documents and drawings including those of Contractors sub-vendor's manufacturer's etc. shall be submitted to Employer/Consultant after having been fully vetted in detail, approved and co-opted by the Contractor & shall bear Contractor seal/ certifications to this effect. All documents/drawings & submissions made to Employer/Consultant without compliance to this requirement will not be acceptable and the delay & liability owing to this shall be to the Contractor's account.
- 5.4 The review of documents and drawings by Employer/Consultant shall not absolve Contractor from his responsibility to meet the requirements of specifications, drawings etc. and liabilities for mistakes and deviations. Upon receiving the comments on the drawing/documents reviewed by Employer/Consultant, Contractor shall incorporate the comments as required and ensure their compliance.

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5.5 Copies of all detailed working drawing relating to the works shall be kept at the contractors' office at the site and shall be made available to the Engineer-in-charge/ Employer/Consultant at any time during execution of the contract. However no extra claim what so ever shall be entertained for any variation in the "approved/issued for construction drawings" and "tender drawings" regarding any changes/units unless otherwise agreed.

5.6 The Contractor shall rectify any inaccuracies, errors and non-compliance to contractual requirements. Any delay occurring on this shall not construe a reason for delay/ extension.

6.0 COMPLIANCE WITH LAWS

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

- i) Contract Labour (Regulation & Abolition) Act 1970 & the centre rules, 1971 framed there under.
- ii) Payment of Wages Act.
- iii) Minimum Wages Act.
- iv) Employer's Liability Act.
- v) Factory Act.
- vi) Apprentices Act.
- vii) Workman's Compensation Act.
- viii) Industrial Dispute Act.
- ix) Environment Protection Act.
- x) Wild life Act.
- xi) Maritime Act.
- xii) Any other Statute, Act, Law as may be applicable.
- xiii) PNGRB Act.

7.0 GOVERNMENT OF INDIA NOT LIABLE

7.1 It is expressly understood and agreed by and between the Contractor and the Employer/Consultant that the Employer/Consultant is entering into this agreement solely on its own behalf and not on behalf of any other person or entity. In particular, it is expressly understood and agreed that the Government of India is not a party to this agreement and has no liabilities, obligations or

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rights there under. It is expressly understood and agreed that the Employer/Consultant is an independent legal entity with power and authority to enter into contract, solely in its own behalf under the applicable laws of India and general principal of Contract Law. The Contractor expressly agrees, acknowledges and understands that the Employer/Consultant is not an agent, representative or delegate of Govt. of India. It is further understood and agreed that the Govt. of India is not and shall not be liable for any acts, omissions, commissions, breaches or other wrongs arising out of the contract. Accordingly, contractor hereby expressly waives, releases and foregoes any and all actions or claims, including cross claims, impleader claims or counter claims against the Govt. of India arising out of this contract and covenants not to sue to Govt. of India as to any manner, claim, cause of action or thing whatsoever arising of or under this agreement.

8.0 VOID

9.0 LIMITATION OF LIABILITY

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

9.2 Notwithstanding anything contrary contained herein, the aggregate total liability of Contractor under the Contract or otherwise shall be limited to 100% of Contract value. However, neither party shall be liable to the other party for any indirect and consequential damages, loss of profit or loss of production.

10.0 VOID

11.0 CONTRACT PERFORMANCE SECURITY / SECURITY DEPOSIT

11.1 Please refer clause no. 38 of ITB (Vol I) and clause no. 24.0 of GCC (General Condition of Contract).

11.2 In addition to clause no.38 of ITB and 24 of GCC following will also apply:-

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- a) In the event completion of works is delayed beyond the Scheduled Completion Date for any reasons whatsoever, the Contractor shall have the validity of the guarantee suitably extended to cover the period mentioned above.
- b) The Employer/Consultant shall have an unqualified option under this guarantee to invoke the Banker's Guarantee and claim the amount there under in the event of Contractor failing to honour any of the commitments entered into under this Contract and/or in respect of any amount due from the Contractor to the Employer/Consultant. In case Contractor fails to furnish the requisite Bank Guarantee as stipulated above, then the Employer/Consultant shall have the option to terminate the Notification of Award of Work and forfeit the Bid Security/Earnest Money amount and compensation for the works performed shall be payable upon such termination.
- c) Upon completion of the Works as per Completion Schedule stipulated in Contract, the above said guarantee shall be considered to constitute the Contractor's warranty/guarantee for the work done by him or for the Works supplied and performance as per the specifications and any other conditions against this Contract. The warranty/guarantee shall remain in force for 12 months from the date of issuance of certificate of Completion and Acceptance against this Contract as per GCC. Contractor shall also arrange for the Performance Guarantee to remain valid until expiration of the guarantee period for entire works covered under the contract. On substantial Completion of the work which has been completed to such an extent that the intended purpose of the work is met and ready to use, successful I&C reports shall be issued by the Engineer-in-Charge / PMC for the portion of the work. The certificate shall have appended with a snag list and outstanding balance item of work that need to be completed in accordance with the provisions of the contract. On compliance of the above said work to the satisfaction of client / PMC, the defect liability period / warranty / guarantee period of 12 months will start from the portion of the work.

The Warranty / Guarantee / Defect Liability Period shall remain valid for a period of twelve (12) months from the date of Taking Over of the Equipment/ acceptance of client. The contractor warrants that all the Goods supplied and installed under the Contract shall comply strictly with the Contract, shall be first class in every particular and shall be free from defects. The contractor further warrants that all equipments, materials and supplies furnished by the him for the purpose of the Goods are new, merchantable of the most suitable grade, and fit for their intended purposes. The contractor further warrants that the services to be carried out under this contract will conform with generally accepted professional standards and engineering principles.

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On occurrence of any fault, the contractor shall, within 02 days, expeditiously repair or replace the defective Goods or parts thereof, at no cost to the Purchaser. The contractor shall take over the replaced parts/goods at the time of their replacement. No claim whatsoever shall lie on the Purchaser for the replaced parts/goods and labour thereafter. Contractor to maintain at least one maintenance office for each awarded part / parts with sufficient operation and maintenance spare, tools and tackles, furniture etc. Contractor to deploy one technician and one helper during the defect liability period of 12 months for each awarded part / parts. A record book for maintenance, fault log, attendance etc. shall be maintained.

- e) In the event of Completion of Project being delayed beyond the Scheduled Completion Date, the Employer/Consultant may without prejudice to any other right or remedy available to the Employer/Consultant, operate the Bank Guarantee to recover the Compensation for delay as per provision of Contract. The Bank Guarantee amount shall thereupon be increased to the original amount, or the Contractor may alternatively submit a fresh Bank Guarantee for the equivalent amount of compensation for delay recovered.

12.0 TAXES, DUTIES AND LEVIES IN INDIA

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

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provided for by this Contract, by third parties, or by Central or State Government authority or any administrative sub-division thereof. The prices shall also be inclusive of GST as applicable.

- 12.2 Employer/Consultant shall make from Contractors' bills such tax deductions as are required as per rules and regulations in force from time to time.
- 12.3 If GST is applicable during site fabrication, the same must be assessed and deemed to be included by the bidder in the quoted prices. The bidder in this regard shall arrange all required formalities.
- 12.4 Bidder shall take care of all applicable taxes & duties while submitting their prices.
- 12.5 Any errors of interpretation of applicability of taxes/ duties by Bidders shall be to their account.

13.0 TAXES, DUTIES AND LEVIES IN FOREIGN COUNTRIES

- 13.1 The Contractor agrees to and does hereby accept full and exclusive liability at its own cost for the payment of any and all taxes, duties and levies etc as are payable to any government, local or statutory authority in any country other than India, as in force on bid due date or as hereafter imposed, increased or modified, and as are payable by Contractor, his agents, sub-contractor and their employees etc. for performance of work under this contract. The Contractor shall be deemed to have been fully informed with respect to all such liabilities and considered the same in his bid, and the contract shall not be varied in any way on this account.

14.0 SUBSEQUENT LEGISLATION

- 14.1 All duties, taxes, fees, charges, expenses, etc. (except where otherwise expressly provided in the Contract) as may be levied/ imposed in consequence of execution of the works or in relation thereto or in connection therewith as per the Acts, Laws, Rules, Regulations in force shall be to Contractor's account. However, any new taxes /duties imposed after the date of submission of last price bid & up to Contractual Completion date shall be to the IGGL's account but such Taxes /duties imposed beyond Contractual Completion date shall be to the Contractor's account. However if such new taxes etc. are in substitute of

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existing taxes, it will be considered on merit of each case.

15.0 VOID

16.0 INCOME TAX & CORPORATE TAX

Please refer clause no. 43 of ITB, Vol I.

17.0 to 20 VOID

21.0 WITHHOLDING, ACCOUNTING AND TAX REQUIREMENTS

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

22.0 INTELLECTUAL PROPERTY

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

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thereof by the Contractor.

23.0 FIRM PRICE

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

24.0 WORKS CONTRACT

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

25.0 PROVIDENT FUND ACT

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

26.0 MOBILIZATION ADVANCE

Not Applicable

27.0 CHANGE ORDERS/ EXTRA WORKS/ DEVIATIONS

27.1 A change order will be initiated in case:

- i) The Employer/Consultant directs the Contractor to include any addition to the scope of work not covered under this contract or delete any Section of the scope of the work under the contract.
- ii) Contractor requests to delete any part of the work which will not adversely affect the operational capabilities of the project and if agreed by the Employer/Consultant and for which cost and time benefits shall be passed on to the Employer/Consultant.

27.2 Any changes required by the Employer/Consultant before giving their approval to detailed procedure or any other document relating to material procurement,

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layout plans etc for complying with the requirements of bidding document shall not be construed to be a change in the scope of work under the contract.

- 27.3 Any change order as above comprising an alteration which involves a change in the cost of the works (which sort of alteration is hereinafter called a "Variation") shall have impact on the contract value that shall be dealt towards end of contract. All change orders shall be approved by the EIC.
- 27.4 If the contract provides applicable rates for the valuation of the variation in question the contract price shall be increased or decreased in accordance with those rates. If the parties agree that the contract does not contain applicable rates then the parties shall negotiate a revision of the contract price which shall represent the change in cost of the works caused by the variations. Any change order must be duly approved by the Employer/Consultant in writing.
- 27.5 If there is a difference of opinion between Contractor and Employer/Consultant whether a particular work constitutes a change order or not, the matter shall be handled in accordance with the procedures set forth in para 27.7.8 and 27.7.9 here below.
- 27.6 Within 10 (Ten) working days of receiving the comments from the Employer/Consultant on the documents submitted by the Contractor for approval, the Contractor's response in writing stating which item(s) is/are potential change (s), if applicable, will be submitted to the Employer/Consultant.
- 27.7 Procedure**
- 27.7.1 During execution of work if the Contractor observes that any new requirements which is not specific or intended in the bidding document has been indicated by Employer/Consultant, they shall discuss the matter with Employer/Consultant's representatives.
- 27.7.2 In case such requirement arises from the side of the Contractor they would also discuss the matter with Employer/Consultant's Representative.
- 27.7.3 In either of the two cases above, the representatives of both the parties shall discuss the project requirement and mutually decide whether the project requirement constitutes a change order.

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27.7.4 If it is mutually agreed that the project requirement/Inquiry constitutes a "Change Order" then a joint memorandum will be prepared to confirm a "Change Order" and basic ideas of necessary agreed modifications.

27.7.5 Contractor will study the work required in accordance with the Joint memorandum and assess subsequent schedule and cost effect if any.

27.7.6 The results of this study would be discussed mutually to enable Employer/Consultant to give a final decision whether Contractor should proceed with the Change Order or not, in the best interest of the Project.

27.7.7 If Employer/Consultant's representative accepts the change order in writing then Contractor shall proceed with the work stipulated in the Change order. Time worked by all workmen employed and a statement showing the description and quantity of all materials and plant utilised for extra work shall be submitted to Employer/Consultant. The Employer/Consultant's representative shall sign and return to the Contractor the statement, as agreed. At the end of each month the Contractor shall deliver to the Employer/Consultant's representative a priced statement of the labour, materials and plant used. Whenever any dispute arises as to cost allocation between the Contractor and the Employer/Consultant, the voucher shall nevertheless be signed by the Employer/Consultant as a record of time worked and materials used. List and vouchers so signed will be the subject of negotiations between the Employer/Consultant and the Contractor regarding their costs allocation.

27.7.8 In case, mutual agreement as above that is whether Project Requirement constitutes a Change order or not, is not reached, then Contractor, in the interest of the project, shall take up the implementation of the work, if advised in writing to do so by Employer/Consultant's representative pending settlement between the two parties to the effect whether the Project Requirement constitutes a change order or not as per the terms and conditions of Contract Documents.

27.7.9 The time and cost effect in such a case shall be mutually verified for the purpose of record. Should it be established that the said work is constituting a Change Order, the same shall be compensated taking into account the records kept and in accordance with the contract.

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27.7.10 Should the amount of Extra Work/ Change Order, if any, which the Contractor may be required to perform by the Employer/Consultant, fairly entitles the Contractor to extensions of time beyond the scheduled completion date for completion of either the whole of the works or for such Extra Work only, the Employer/Consultant and the Contractor shall mutually discuss and decide the extension of time, if any to be granted to the Contractor.

28.0 CONSTRUCTION FRONTS AND PERMITS:

- 28.1 Removal of all the hindrances in the alignment shall be sole responsibility of the contractor except due reasons attributable to NRL/IGGL.
- 28.2 For above ground piping construction purposes, front of varying width shall be made available depending upon site condition.
- 28.3 Contractor shall carry out construction work within the width as made available to him. Felling of trees/plants shall be minimized. Damage to any obstruction, temporary/permanent structure, boundary walls etc. within work front/ROU shall be repaired and restored and cost of repairs/restoration shall be to Contractor's account.
- 28.4 The Contractor must ensure that during piping minimum damage occurs to the land. The land has to be restored to original condition. All construction activities shall be in accordance with the NRL regulations and shall be performed by the competent and qualified persons for providing adequate protection to the public, underground utilities, power lines, buildings, structure etc. in the vicinity of the piping route.
- 28.5 During piping construction, measures shall be adopted in order to minimize the impact of piping construction activities on the environment.
- 28.6 Clean-up and restoration of ROU/work front and other conveniences like road, canals, water 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.

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28.7 Contractor shall arrange necessary clearance from the concerned authorities to the effect that ROU/ ROW/ Corridor/Work front has been restored back to original condition. Contractor shall carry out joint survey with representative of Competent Authority (CA)/ Other Authorized Person and will obtain clearance in writing from CA/Authorized Person that ROU/ Work Front 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. However, if the owner does not give the NOC, payment may be released to the contractor if the restoration is done physically and to the satisfaction of Owner / Consultant / CA and is certified & accepted by Engineer-in-charge as per the tender specifications. Necessary Proof of restoration i.e. through photographs and video recordings will have to be submitted by the contractor wherever NOC is not available.

28.8 Local state Government may impose Taxes/ Duties/ royalty etc towards the excavation and filling of earth for piping works. It is the responsibility of contractor to make such payments without any cost implications to IGGL.

28.9 Contractor is required to maintain a hindrance register. All hindrances encountered in the execution needs to be logged in this register and shall be jointly signed by Contractor and PMC/IGGL.

29.0 CONSTRUCTION EQUIPMENT AND ORGANIZATION

29.1 CONSTRUCTION EQUIPMENT

29.1.1 Void.

29.1.2 The complete list of minimum equipment required to be Owned/ Hired/ leased equipment shall be mobilized during execution as per **Annexure 9B to SCC**. Contractor shall submit their compliance for deployment of equipment as above to Client/PMC.

29.1.3 Based on availability of front, Contractor shall propose minimum equipment to be deployed and the same shall be finalized by construction-in-charge of IGGL/ PMC on monthly/quarterly basis. Further, Bidder shall be required to augment the above list with additional numbers/categories of equipments,

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tools, tackles, as required and directed by Engineer-In charge to complete the work within the completion time schedule and quoted price.

29.1.4 The Employer/Consultant shall not supply any Construction Equipment.

29.2 MANPOWER DEPLOYMENT

29.2.1 The complete list of minimum skilled manpower to be deployed are mentioned in **Annexure 10 to SCC**. Contractor shall submit their compliance for deployment of Manpower as above to Client/PMC. Qualification and Experience of key construction personnel shall be as per **Annexure-10A to SCC**.

Non deployment or unilateral withdrawal of key personnel by the contractor will attract recovery as per the hiring / recovery rates specified in Annexure-11 to SCC.

29.3 **Schedule of Labour & Equipment Rates**

Hiring / Recovery Rate for Deployment of Manpower attached as **Annexure-11 to SCC** shall be used for analyzing rates for extra items and recovery for non- deployment of key personnel.

Equipment Hiring / Recovery Rates attached as **Annexure-12 to SCC** shall be used for analysing rates for extra items and recovery for non-deployment of Equipment.

30.0 MECHANISED CONSTRUCTION

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

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

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whatsoever.

31.0 GENERAL GUIDELINES DURING AND BEFORE ERECTION

- 31.1 Contractor shall be responsible for organising the lifting of the equipment in the proper sequence, that orderly progress of the work is ensured and access routes for erecting the other equipments are kept open.
- 31.2 Orientation of all foundation, elevations, lengths and disposition of anchor bolts and diameter of holes in the supports saddles shall be checked by contractor, well in advance. Minor rectifications including chipping of foundations as the case may be shall be carried out at no extra cost by the contractor after obtaining prior approval of the Engineer-in-Charge. The Contractor shall also be provided with the necessary structural drawings and piping layouts etc., wherever required for reference. During the structural member need to be dismantled, to facilitate the equipment erection, same shall be done by the contractor after ensuring proper stability of main structure with prior permission of Engineer-in-Charge. All such dismantled members shall be put in position back after the completion of equipment erection to satisfaction of Engineer-in-Charge.
- 31.3 During the performance of the work the Contractor at his own cost, shall keep structures, materials and equipment adequately braced by guys, struts or otherwise approved means which shall be supplied and installed by the Contractor as required till the installation work is satisfactorily completed. Such guys, shoring, bracing, strutting, planking supports etc. shall not interfere with the work of other agencies and shall not damage or cause distortion to other works executed by him or other agencies.
- 31.4 Manufacturer's recommendations and detailed specifications for the installation of the various equipment and machines will be passed on to the contractor to the extent available during the performance of work. The requirements stipulated in these clauses shall be fulfilled by the Contractor.
- 31.5 Various tolerances required as marked on the drawings and as per specifications and instructions of the Engineer-in-Charge, shall be maintained. Verticality shall be maintained. Verticality shall be verified with the Theodolite.

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31.6 **ERECTION OF EQUIPMENTS**

31.6.1 All the erection shall be carried out by Cranes of suitable capacity. Erection by derrick shall not be permissible. The contractor shall arrange the crane of suitable capacity required for erection and include cost for same in respective items without any liability on the part of Employer/Consultant.

31.6.2 Bidder shall submit the indicative erection scheme for compressor/equipment and shall undertake the erection only after obtaining approval of erection scheme by Engineer-in-charge.

31.6.3 Grouting of equipments, anchor bolts, pockets and under base plates shall be carried out as per technical specifications.

32.0 **PRICE ADJUSTMENT DUE TO DELAYED MOBILISATION OR SHORTFALL IN DEPLOYMENT OF MINIMUM EQUIPMENT AND KEY PERSONNEL**

32.1 CONTRACTOR has to mobilize required equipment & manpower to maintain the minimum construction progress to achieve the completion schedule. The nos. of equipment mentioned are only indicative and the CONTRACTOR may have to deploy additional equipment to meet the desired progress without any commercial implications to the client.

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

32.3 Contractor shall maintain record of actual mobilization of each equipment and key personnel.

32.4 In case of delay in mobilization or shortfall in mobilization of equipment and key personnel w.r.t approved deployment of equipments and manpower, recovery shall be effected from contractor's running bills as certified by ENGINEER-INCHARGE. The recovery shall be based on the hiring / recovery rates specified elsewhere in the bidding document.

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

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- 32.6 An equipment and key personnel may be demobilized by the contractor on completion of work at site after written clearance of Engineer-in-charge. Unilateral withdrawal of any equipment / key manpower by the contractor will attract recovery as per the hiring / recovery rates specified in Annexure-11 & 12 to SCC.
- 32.7 Deduction under this clause shall be in addition to PRS applicable pursuant to GCC clause 27.0 and SCC Clause. The provision of GCC clause no. 27.0 shall have no bearing on this clause. The CONTRACTOR's maximum liability towards retention/ deduction for non-deployment of requisite minimum equipment & manpower shall be limited to 2.5% of the final contract price.
- 32.8 In case time extension is granted without application of Price Reduction Schedule (PRS), then amount deducted on account of non-deployment of equipment & key personnel will be refunded to the contractor.
- 32.9 NOC from sub-contractor, if any (deployed after getting approval from IGGL / PMC) regarding receipt of payment from contractor upto previous month to be submitted along-with RA Bill.
- 32.10 In case of final bill, contractor shall be required to submit NOC from subcontractor about receipt of full payment from the contractor.
- 32.11 Contractor shall maintain record of actual mobilization of each equipment and key personnel. Joint record of equipment mobilization will be maintained month-wise. Further a copy of hindrance register for the specified period (RA bill period) duly signed by contractor/ MECON/ IGGL shall be maintained and submitted along with each RA bill.
- 32.12 Void.
- 32.13 Base schedule duly signed by Contractor, PMC & IGGL shall be submitted within 15 days of Kick off Meeting (KOM).
- 32.14 In case work front is not made available during the month, a joint record between IGGL / MECON & CONTRACTOR shall be prepared.
- 32.15 Quarterly closure report clearly mentioning the Front handed over, progress achieved, constraints, extra items/ claims etc. shall be prepared and jointly signed by CONTRACTOR, MECON and IGGL, failing which the RA bills of the CONTRACTOR shall not be processed.

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32A.0 SCHEDULE FOR SUBMISSION OF DOCUMENTS - VOID

33.0 MEASUREMENT OF WORKS

33.1 In addition to the provisions of relevant clause of GCC and associated provisions thereof, the provisions of **Annexure-4 to SCC** shall also apply.

34.0 TERMS OF PAYMENT

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

35.0 REPAIR OF PIPE DEFECTS

35.1 Immediately prior to aligning pipe for welding, the bevelled ends of each joint of pipe and the area immediately adjacent thereto (at least 25mm from the edge on the inside and outside of the pipe) shall be thoroughly cleaned of paint, rust, mill scale, dirty or other foreign matter by use of power driven wire buffing wheels, disc sanders, or by other methods approved by Employer/Consultant. The entire cleaning operation shall be carried out by the Contractor at his own cost and no extra payment shall be admissible.

35.2 All damaged ends of pipe that are bent, cut or otherwise mutilated to such an extent that in the opinion of the Employer/Consultant, faulty alignment or unacceptable welding would result, shall be repaired or cut-off and rebevelled to the correct angle with a bevelling machine of a type approved by Employer/Consultant. No compensation shall be allowed by reason of such recutting or bevelling. The same being deemed incidental to the supply of materials and execution of works by the Contractor.

35.3 Dents in bevels with a depth of less than 1 mm shall be removed by Contractor during cleaning and grinding, ahead of the welding in the field. Bevel ends with dents of depth between 1 mm and 3 mm shall be re-bevelled by the Contractor. Dents exceeding 3 mm in depth shall be repaired only by cutting and re-bevelling. All such corrective actions shall be carried out by the Contractor at no additional cost to the Employer/Consultant.

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36.0 ISSUE OF EMPLOYER/CONSULTANT SUPPLIED MATERIAL

36.1 The conditions for issue of material and reconciliation refer enclosed **Annexure-8 to SCC.**

36.2 The reconciliation of material shall be applicable only for the material issued by Employer/Consultant as free issue to the contractor.

37.0 LOCATION OF DUMPYARD / WAREHOUSE / STORAGE YARD

37.1 The Dumpyard / Warehouse / Storage Yard is situated at the locations as mentioned in the scope of work.

37.2 Items issued as Free Issue Material (FIM), if any, shall be collected by the Contractor from Employer/Consultant's designated storage yard(s) as directed by Engineer-in-Charge. Contractor shall arrange for handling of FIM including crane etc for loading/unloading, transportation of FIM to required site location free of cost.

38.0 STATUTORY APPROVALS

38.1 Employer shall obtain general in-principle permissions from most of the authorities having jurisdiction over the area as necessary for construction of the pipeline. However, specific site related work / coordination with concerned authority required for executing the job will have to be done by the Contractor. Contractor may have to follow up/expedite with the concerned authorities to execute the job in time. All the statutory payment required for such purpose shall be reimbursed by Employer at actuals on production of documentary evidence.

38.2 The Contractor shall arrange the inspection of the works by the authorities and necessary co-ordination and liaison work in this respect shall be the responsibility of the contractor. However statutory fees paid, if any, for all inspections and approvals by such authorities shall be reimbursed at actual by the Employer/Consultant to the contractor on production of documentary evidence.

38.3 Any change/ addition required to be made to meet the requirements of the statutory authorities shall be carried out by the contractor free of charge. The

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inspection and acceptance of the work by statutory authorities shall however, not absolve the contractor from any of his responsibilities under this contract.

- 38.4 Statutory approvals of all type of permanent buildings are to be in the scope of contractor. Detection / intimation of foreign utility and pipelines shall be in the scope of contractor. Necessary safety of such utilities shall be ensured by the contractor during construction.

39.0 TESTS AND INSPECTION

- 39.1 The Contractor shall carry out the various tests as enumerated in the technical specifications of this bid document and the technical documents that will be furnished to him during the performance of the work.
- 39.2 All the tests either on the field or at outside laboratories concerning the execution of the work and supply of materials by the Contractor shall be carried out by Contractor at his own cost.
- 39.3 The work is subject to inspection at all times by the Engineer-in-Charge. The contractor shall carry out all instructions given during inspection and shall ensure that the work is being carried out according to the technical specifications of this bid document, the technical documents and the relevant codes of practice will be furnished to him during the performance of the work.
- 39.4 The Contractor shall provide for purposes of inspection access ladders, lighting and necessary instruments at his own cost.
- 39.5 Any work not conforming to execution drawings, specifications or codes and approved methodology / scheme shall be rejected forthwith and the Contractor shall carryout the rectifications at his own cost.
- 39.6 All results of inspection and tests will be recorded in the inspection reports, proforma of which will be approved by the Engineer-in-Charge. These reports shall form part of the completion documents.
- 39.7 For materials supplied by Employer/Consultant, Contractor shall carryout the tests, if required by the Engineer-in-Charge, and the Employer/Consultant shall reimburse the cost of such tests at actual to the Contractor on production of documentary evidence.

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39.8 Statutory fees paid to IBR authorities and for repeat tests and inspection due to failures, repairs etc. such reasons attributable to the Contractor shall be borne by the Contractor.

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

40.0 INSPECTION OF SUPPLY ITEMS

40.1 All inspection and tests on bought out items shall be made as per the specifications forming part of this contract. The Contractor shall submit a **Categorisation Plan** of all the supply items indicating the type of inspection required for review by PMC. Various stages of inspection and testing shall be identified after receipt of Quality Assurance Programme from the Contractor/ Manufacturer. All supplies are subject to pre-dispatch inspection from any of the TPI agencies (Refer Appendix to PJS) and shall be arranged by the Contractor at his own cost.

40.2 Inspection calls shall be given for associations of Employer/Consultant's representative as per mutually agreed programme in prescribed proforma with 15 days margin, giving details of equipment and attaching relevant test certificates and internal inspection report of the Contractor. All drawings, General Arrangement and other contract drawings, specifications, catalogues etc. pertaining to equipment offered for inspection shall be got approved from Employer/Consultant and copies shall be made available to Employer/Consultant before hand for undertaking inspection.

40.3 The contractor shall ensure full and free access to the inspection Engineer of Employer/Consultant at the Contractor's or their sub-contractor's premises at any time during contract period to facilitate him to carry out inspection and testing assignments.

40.4 The contractor/ sub-contractor shall provide all instruments, tools, necessary testing and other inspection facilities to inspection engineer of Employer/Consultant free of cost for carrying out inspection.

40.5 Where facilities for testing do not exist in the Contractor's/ sub-contractor's laboratories, samples and test pieces shall be drawn by the Contractor/ Sub-

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Contractor in presence of Inspection Engineer of a Employer/Consultant and duly sealed by the later and sent for testing in Government approved Test House or any other testing laboratories approved by the Inspection Engineer at the Contractor's cost.

41.0 FINAL INSPECTION

41.1 After completion of all tests as per specification the whole work will be subject to a final inspection to ensure that job has been completed as per requirement. If any defects noticed in the work attributable to Contractor, the Contractor at his own cost shall attend these, as and when the Employer/Consultant brings them to his notice. The Employer/Consultant shall have the right to have these defects rectified at the risk and cost of the contractor if he fails to attend to these defects immediately

42.0 COMPENSATION FOR EXTENDED STAY

Not Applicable

43.0 COMPUTERIZED CONTRACTORS BILLING SYSTEM

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

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

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

44.0 TEMPORARY WORKS

44.1 All Temporary and ancillary works including enabling works connected with

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the work shall be responsibility of the Contractor and the price quoted by them shall be deemed to have included the cost of such works which shall be removed by the contractor at his cost, immediately after completion of his work.

45.0 DISTINCTION BETWEEN FOUNDATION AND SUPERSTRUCTURE

45.1 To distinguish between work in foundations and superstructures, the following criteria shall apply:

45.1.1 For all Equipment pedestals, pipe racks, other foundation and R.C.C. Structures, work done upto 300 mm level above finished grade level will be taken as work in foundations and work above this level will be treated as work in superstructures and payments would be made accordingly.

45.1.2 For Buildings only, all works upto level corresponding to finished floor level shall be treated as 'Work in foundation' and all works above the finished floor level shall be treated as "Work in superstructure".

45.1.3 Irrespective of what has been stated above, all pavements, R.C.C. Retaining wall, all pipe sleepers and any similar item would be taken as work done in foundations irrespective of locations, nomenclature and levels given anywhere.

45.1.4 Where not specifically pointed out all works in Cellars/ sumps, Tank Pads, Cable trenches, or such similar item would be taken as work in foundation.

46.0 QUALITY ASSURANCE/ QUALITY CONTROL

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

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

46.3 Quality Assurance System plans/procedures of the Contractor shall be

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

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

- 46.4 The Employer/Consultant/Consultant or their representative shall reserve the right to inspect/witness, review any or all stages of work at shop/site as deemed necessary for quality assurance.
- 46.5 The contractor has to ensure the deployment of Quality Assurance and Quality Control Engineer(s) depending upon the quantum of work. This QA/QC group shall be fully responsible to carryout the work as per standards and all code requirements. In case Engineer-in-Charge feels that Contractor's QA/QC Engineer(s) are incompetent or insufficient, contractor has to deploy other experienced Engineer(s) as per site requirement and to the full satisfaction of Engineer-In-Charge.
- 46.6 In case contractor fails to follow the instructions of Engineer-in-charge with respect to above clauses, next payment due to him shall not be released unless until he complies with the instructions to the full satisfaction of Engineer-in-charge.
- 46.7 The Contractor shall adhere to the quality assurance system as per MECON Specification enclosed in the Bidding Document as **Annexure-6**.

47.0 HEALTH SAFETY AND ENVIRONMENT (HSE) MANAGEMENT

- 47.1 The Contractor, during entire duration of the Contract, shall adhere to HSE requirement as per spec. enclosed in the bidding document as **Annexure-7**.

48.0 SITE CLEANING

- 48.1 The Contractor shall clean and keep clean the work site from time to time to the satisfaction of the Engineer-in-Charge for easy access to work site and to ensure safe passage, movement and working.

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48.2 If the work involves dismantling of any existing structure in whole or part, care shall be taken to limit the dismantling up to the exact point and/or lines as directed by the Engineer-in-Charge and any damage caused to the existing structure beyond the said line or point shall be repaired and restored to the original condition at the Contractor's cost and risks to the satisfaction of the Engineer-in-Charge, whose decision shall be final and binding upon the Contractor.

48.3 The Contractor shall be the custodian of the dismantled materials till the Engineer-in-Charge takes charge thereof.

48.4 The Contractor shall dispose off the unserviceable materials, debris etc. to any area as decided by the Engineer-in-Charge.

48.5 The Contractor shall sort out, clear and stack the serviceable materials obtained from the dismantling/renewal at places as directed by the Engineer-in-Charge.

48.6 No extra payment shall be paid on this account.

49.0 COMPLETION DOCUMENTS

A) Notwithstanding the provisions contained in standard specification, upon completion of work, the Contractor shall complete all of the related drawings and documents to the "AS BUILT" stage (including all vendor / sub-vendor drawings for bought out items). Following documents to be submitted:

- (i) One complete bound set of all original documents as mentioned but not limited to documents listed elsewhere in the bid document.
- (ii) Three complete bound sets of documents as mentioned at (i) above, in original size and in 3 (three) CD/DVD/Pen drive.
- (iii) Three complete bound sets of Contractor's specification including design calculations, design & engineering documents, Inspection documents, commissioning document, Trial run test reports O&M Manuals etc as per scope of work & specifications and as per direction of the Engineer In charge.

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(v) Three sets of all raw data collected / generated, survey reports, software reports generated for the entire job as specified in documents requirement.

(vi) Three sets of Closure report.

B) Completion Documents

The following documents shall be submitted in hard binder by the CONTRACTOR in 3 (Three) sets, as a part of completion documents:

- i) Preliminary survey report, Cable route & Design data collected for the cable laying and installation of materials.
- ii) Test documents & drawings for bought out items.
- iii) Guarantee & warrantee certificates.
- iv) All approved design & detail engineering documents, procedures and data sheets.
- v) Pre-commissioning/ Commissioning checklist.
- vi) All mechanical & civil drawings
- vii) Installation, testing & commissioning reports of Cable system.
- viii) Complete operation & maintenance manual for Junction boxes.
- ix) All other requirements as specified in the respective specifications.
- x) As built drawings.
- xi) Any other drawing/document/report specified elsewhere in the bidding document.

Note: The Contractor shall be eligible to apply for issue of completion certificate after submission of completion documents as mentioned above.

50.0 COORDINATION WITH OTHER AGENCIES

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

51.0 VOID

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52.0 UNDERGROUND AND OVERHEAD STRUCTURES

52.1 Contractor may encounter existing structures/overhead lines/OFC, existing pipelines and utilities in piping route. The contractor is required to collect such information on his own before commencing the work. Contractor must intimate the Local Officer concerned of the utility about the pipeline construction activities and take necessary steps to ensure safety and protection to men, materials and utility provided. The Contractor shall execute the work in such a manner that the said structures, utilities, pipelines etc. are not disturbed or damaged, and shall indemnify and keep indemnified the Employer/Consultant from and against any destruction thereof or damages thereto.

53.0 TEST CERTIFICATES

53.1 Bidder shall be required to submit recent test certificates for the material being used in works from the recognized laboratories. These certificates should indicate all properties of the materials as required in relevant IS Standards or International Standards.

53.2 Contractor shall also submit the test certificate with every batch of material supplied which will be approved by Engineer-in-Charge. No secured advance will be given for the materials not having test certificate. In case any test is to be carried out, the same shall be got done in the approved laboratory at the cost of contractor.

54.0 ROYALTY

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

55.0 EXCAVATION BY BLASTING - VOID

56.0 SITE FACILITIES FOR WORKMEN

56.1 Following facilities are to be ensured at all work places where workmen are deployed/engaged by Contractor.

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- i) Arrangement of first aid
- ii) Arrangement for clean drinking water.
- iii) Toilets
- iv) Canteen where tea & snacks are available
- v) A creche where 10 or more women workmen are having children below the age of 6 years.

57.0 **EXECUTION OF ELECTRICAL WORKS**

The Contractor shall engage an approved electrical agency for execution of electrical works, holding valid electrical contractor licence. In case contractor himself executes electrical works then he shall arrange valid electrical contractor licence before start of electrical works at site. Notwithstanding, contractor shall adhere to all the safety standards as included in bidding document. For details, refer enclosed scope of work for Electrical works.

58.0 **HYDROSTATIC TESTING**

- 58.1 The bidder as per the Technical specification along with their offer taking into account the completion schedule shall furnish the detailed procedure proposed for the hydrostatic testing of pipeline. The necessary piping, pumps etc. shall be provided by the contractor. The final disposal of water after testing shall be contractor's responsibility and should be in such a way that nearby facilities in the plant should not gets affected. Suitable drains shall be provided for this purpose as directed by the Engineer-in-Charge within the contracted prices.

The test sections of the piping system shall be determined by the Contractor in consultation with the Client/Engineer-in-Charge and mutually agreed prior to commencement of hydrotesting works, taking into account drawings, availability of water, and other site conditions, if any. The same shall be carried out at no additional time or cost to the Employer/Consultant. Any variation, whether increase or decrease, in the number of test sections shall not entail any cost implication to the Owner/Consultant/Contractor.

59.0 **VOID**

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60.0 **MAKE OF MATERIALS**

60.1 The materials required to be supplied by the contractor under this contract shall be procured only from Employer/Consultant approved vendors. Where the makes of materials are not indicated in the Bidding document contractor shall furnish the details of makes and shall obtain prior approval of Engineer-in-Charge of vendors/sub-vendors before placing order.

61.0 **ADDITIONAL WORKS/ EXTRA WORKS**

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

62A.0 **COMPENSATION FOR DELAY / PRICE REDUCTION SCHEDULE FOR ANY DELAY**

62A.1 Clause no. 27.0 of GCC, pertaining to Compensation for Delay (Price Reduction Schedule) stands modified to the following extent:

62A.1.1 The contractual completion period is as given in the Invitation for Bids and subdivided into two parts:

- a) **Completion schedule shall be 3.5 (Three & half) months from the date of Fax of Acceptance (FOA) for Mechanical Completion & Commissioning including mobilization period of 15 (fifteen) days.**

62A.1.2 The Price Reduction Schedule (PRS) under 62A.1.1 above shall be applied as under:

- i) **"In case of delay in works related to clause 62A.1.1 a) : at the rate of ½ % of of the total executed price per complete week of delay or part thereof subject to maximum of 5% of the total executed price.**

The total liability of the Contractor to Employer/ Consultant under sub clause no. 62A.1.1 on Compensation for Delay/Price Reduction Schedule shall not

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exceed 5% (Five Percent) of contract value. The compensation on account of any liability (ies) other than above shall be as per provisions of Bidding Documents.

The value referred in PRS clause is excluding taxes and duties reimbursable by IGGL.

62B.0 RECOVERIES / RETENTIONS - VOID

63.0 PROJECT PLANNING, SCHEDULING AND MONITORING SYSTEM

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

63.1 After the Award of Contract

a) Time Schedule

The Completion Time Schedule for the work (including mobilization period) as per Annexure-3 to SCC of Tender in all respect, from the date of issue of Fax of Acceptance.

The Bidder is required to submit a Project Time Schedule in Primavera. The Schedule shall cover all aspects like sub-ordering, manufacturing and delivery, indicated in the Bid Document. The Owner interface activities shall be clearly identified with their latest required dates. Owner reserves the right to disqualify the Bidder if the above Schedule submitted by the Bidder is not in line with the over all Project requirement.

b) Scheduling & Monitoring System

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

c) Overall Project Schedule

The Contractor shall submit within 1 week of Fax of Acceptance, a sufficiently detailed overall Project Schedule in the activity network form,

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clearly indicating the major milestones, interrelationship/ interdependence between various activities together with analysis of critical path and floats.

The network will be reviewed and approved by Engineer- in-Charge and the comments if any shall be incorporated in the network before issuing the same for implementation. The network thus finalised shall form part of the contract document and the same shall not be revised without the prior permission from Engineer-in- Charge during the entire period of contract.

d) Progress Measurement Methodology

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

e) Functional Schedules

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

63.2 **Project Review Meetings**

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

a) Weekly Review Meeting

Level of Participation	:	Contractor's/Consultant's RCM/ Site Incharge & Job Engineers.
Agenda	:	a) Weekly programme v/s actual achieved in the past week & programme for next week.

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- b) Remedial Actions and hold up analysis.
- c) Client query/ approval.

Venue : Site Office

b) Monthly Review Meeting

Level of Participation : Senior Officers of IGGL/MECON and Contractors.

Agenda :

- a) Progress Status/ Statistics
- b) Completion Outlook
- c) Major hold ups/slippages
- d) Assistance required
- e) Critical issues
- f) Client query/ approval

Venue : IGGL/MECON Office/ Site at the discretion of Owner/ MECON

63.3 Progress Reporting Proforma

A) Monthly Progress Report

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

- a) Brief Introduction of the work.
- b) Activities executed/ achievements during the month.
- c) Schedule versus actual percentage progress and progress curves for Detail Engg. Sub-ordering, Manufacturing/ Delivery, Sub-contracting, Construction, Commissioning and Overall and quantum wise status & purchase orders against schedule.
- d) Area of concern/ problem/ hold-ups, impacts and action plans.
- e) Resources deployment status.
- f) Annexures giving status summary for drawings, MRs, deliveries, sub-contracting and construction.
- g) Procurement status for items to be supplied by Contractor.

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B) Weekly Reports

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

- Activities programmed and completed during the week.
- Resource deployed men and machines.
- Quantities achieved against target in construction
- Record of Man-days lost.
- Construction percentage progress schedule and actual.

C) Daily Repots

- Activity programme for the day
- Progress of the previous day and commutative progress.
- Manpower & machinery deployed.

D) Any other additional reports/ information as may be required by E.I.C.

63.4 Progress Reports

63.4.1 CONTRACTOR shall make every effort to keep the OWNER adequately informed as to the progress of the WORK throughout the CONTRACT period.

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

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

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

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

63.4.5 Contractor shall prepare daily progress report (DPR) in the desired format and submit it to Engineer-in-charge alongwith schedule of next day to Engineer-in-charge.

63.5 Progress Review Team (PRT) Meeting

Project Progress shall be reviewed by the PRT Team of IGGL on regular basis. Contractor shall be liable to submit compliance report(s) within 15 days of PRT review meeting(s).

Contractor is also required to submit quarterly closure report within 15 days (of completion of each quarter).

In event of failure of submission of compliance report and quarterly closure reports by the contractor, EIC reserves the right to take appropriate action.

64.0 RESPONSIBILITY OF CONTRACTOR

64.1 It shall be the responsibility of the Contractor to obtain the approval for any revision and/or modifications decided by the Contractor from the Employer/Consultant/ Engineer-in-charge before implementation. Also such revisions and/or modifications if accepted/ approved by the Employer/Consultant/Engineer-in-charge shall be carried out at no extra cost to the Employer/Consultant. Any changes required during and/or after approval for detailed construction drawings due to functional requirements or for efficient running of system keeping the basic parameters unchanged and which has not been indicated by the Contractor in the data/drawings furnished along with the offer will be carried out by the Contractor at no extra cost to the Employer/Consultant.

64.2 All expenses towards mobilisation at site and demobilisation including

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bringing in equipment, clearing the site etc. shall be deemed to be included in the prices quoted and no separate payments on account of such expenses shall be entertained.

64.3 It shall be entirely the Contractor's responsibility to provide, operate and maintain all necessary construction equipments, scaffoldings and safety gadgets, cranes and other lifting tackles, tools and appliances to perform the work in a workman like and efficient manner and complete all the jobs as per time schedules.

64.4 Preparing approaches and working areas for the movement and operation of the cranes, levelling the areas for assembly and erection shall also be the responsibility of the Contractor. The Contractor shall acquaint himself with access availability, facilities such as railway siding, local labour etc. to provide suitable allowances in his quotation. The Contractor may have to build temporary access roads to aid his own work, which shall also be taken care while quoting for the work.

64.5 The procurement and supply in sequence and at the appropriate time of all materials and consumables shall be entirely the Contractor's responsibility and his rates for execution of work will be inclusive of supply of all these items.

65.0 CHECKING OF LEVELS

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

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

66.0 STORAGE FACILITIES

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

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the quoted price.

67.0 ABNORMALLY HIGH RATED ITEMS (AHR ITEMS)

Please refer clause no. 41 of ITB, Vol I.

68.0 INSURANCE FOR FREE ISSUE MATERIAL

- 68.1 Contractor shall at his own expense arrange, secure and maintain insurance cover for Employer/Consultant's supplied free issue materials, if any, as defined in Bidding Document. Contractor's quoted price shall be inclusive of all costs on account of insurance liabilities covered under the Contract. Contractor to note that the beneficiary of insurance cover shall be IGGL (India) Limited. The insurance cover of the free issue material shall be for the period from the date of handing over the material to Contractor from Employer/Consultant's designated place of issue/ dumpsite to date of handing over the completed work to Employer/Consultant.

There is no free issue material envisaged as of now under instant work, however in case any material is being issued to contractor as free issue material, insurance of same shall be taken by the contractor.

69.0 INSURANCES IN INDIA

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

- 69.2 Any loss or damage to the equipment during ocean transportation, port/custom

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clearance, inland and port handling, inland transportation, storage, erection and commissioning till such time the Work is taken over by Employer/Consultant, shall be to the account of Contractor. Contractor shall be responsible for preferring of all claims and make good for the damage or loss by way of repairs and/or replacement of the parts of the Work damaged or lost. Contractor shall provide the Employer/Consultant with a copy of all insurance policies and documents taken out by him in pursuance of the Contract. Such copies of documents shall be submitted to the Employer/Consultant immediately upon the Contractor having taken such insurance coverage. Contractor shall also inform the Employer/Consultant at least 60 (Sixty) days in advance regarding the expiry cancellation and/or changes in any of such documents and ensure revalidation/renewal etc., as may be necessary well in time.

69.3 Statutory clearances, if any, in respect of foreign supply required for the purpose of replacement of equipment lost in transit and/or during erection, shall be made available by the Employer/Consultant. Contractor shall, however, be responsible for obtaining requisite licenses, port clearances and other formalities relating to such import. The risks that are to be covered under the insurance shall include, but not be limited to the loss or damage in handling, transit, theft, pilferage, riot, civil commotion, weather conditions, accidents of all kinds, fire, war risk (during ocean transportation only) etc. The scope of such insurance shall cover the entire value of supplies of equipments, plants and materials to be imported from time to time.

69.4 All costs on account of insurance liabilities covered under this Contract will be to Contractor's account and will be included in Contract Price. However, the Employer/Consultant may from time to time, during the currency of the Contract, ask the Contractor in writing to limit the insurance coverage risk and in such a case, the parties to the Contract will agree for a mutual settlement, for reduction in Value of Contract to the extent of reduced premium amounts.

69.5 Contractor as far as possible shall cover insurance with Indian Insurance Companies, including marine Insurance during ocean transportation.

70.0 INSURANCE IN FOREIGN COUNTRIES

70.1 The Contractor shall at his own cost arrange, secure and maintain separate insurance cover from the reputable insurance companies, for all such amounts and for such periods as may be necessary to protect the works, Contractor and

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sub-contractor's personnel and the interests of the Employer/Consultant as per applicable laws of land.

- 70.2 The form and the limit of insurance cover taken by Contractor shall be satisfactory to Employer/Consultant and one copy of all insurance policies and related documents shall be submitted to Employer/Consultant, immediately on execution. Contractor shall inform Employer/Consultant at least 60 days before any insurance policies expire or are cancelled or changed.

71.0 VOID

72.0 SUBMISSION OF COLOURED PHOTOGRAPHS

- 72.1 The Contractor shall shoot, prepare and submit coloured photographs (B5 size) in 2 sets alongwith softcopies to MECON site office along with monthly progress report covering all the activities (minimum 10 nos of photographs covering various phases of each activities) of pipeline constructions highlighting the progress or other areas of work. Similarly photographs for problem areas (as required) should be submitted well in advance with a proposed methodology to execute the works and meet the construction schedule. The cost of same shall be deemed to be inclusive in the rates and no separate payment shall be made.

73.0 DISPOSAL OF EMPTY OFC CABLE DRUM - VOID

74.0 VIDEOTAPE - VOID

75.0 PIPES FOR WELDING QUALIFICATION

- 75.1 Contractor for the purpose of qualification of welding procedure may use the pipes issued by Employer/Consultant. However, accounting of such pipes shall be done within the unaccountable wastage and scraps limit as per **Annexure-8 to SCC** enclosed with the bidding document. The quantity of pipes supplied by the Contractor may exceed the installed quantity, however, any losses, wastage, or damages arising during handling, cutting or installation shall be borne entirely by the Contractor. Payment towards supply shall be reconciled strictly on the basis of the exact quantity installed and accepted and payment for supply and installation shall be made only for the installed quantity. No separate payment shall be admissible to the Contractor on account of scrap,

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procedure qualification, bevel cutting, re-bevelling, or any other wastage/loss.

- 75.2 The contractor shall bear all cost towards lifting, carting from issue point to work site/Contractor's store, custody, handling, insurance and levies etc. and return of surplus/scrap materials to employer designated storage point. No separate payment shall be made for such expenditure.

76.0 SPARES

- 76.1 Contractor shall procure and supply all spare parts required during commissioning of the various items / materials supplied by him as enumerated in the Bidding Document. The quoted lump sum prices shall be deemed to have been inclusive of all such provision of commissioning spares, required till commissioning of such items. Contractor shall make available all the commissioning spares required at site at least 4 (four) weeks before start of commissioning. However, listed spares not used during commissioning shall be handed over to Employer at their designated place. Contractor shall also supply commissioning spares not listed but required during commissioning within the contracted price.
- 76.2 In addition to above, special tools & tackles required, if any, for operation & maintenance shall also be supplied by the Contractor and the quoted prices shall be deemed to have been inclusive of all such provisions.

77.0 BUILDING AND OTHER CONSTRUCTION WORKER'S ACT

- 77.1 In order to govern welfare and working conditions of labourers engaged in construction activities, the Building and other Construction Workers' (Regulation of Employment and Conditions of Service "RE &CS") Act, 1996 came into force. RE&CS Act'1996 is applicable in respect of building and other construction work. Wherever applicable, The SUB-CONTRACTOR shall strictly comply with the following provisions pertaining to RE &CS Act'1996.
- The SUB-CONTRACTOR must be registered with the concerned authorities under the Building and Other Construction Workers' (RE&CS) Act, 1996 or in case of non-registration, the SUB-CONTRACTOR should obtain registration within one month of the award of contract.
 - The SUB-CONTRACTOR shall be responsible to comply with all provisions

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of the Building and Other Construction Workers' (RE&CS) Act, 1996, the Building and Other Construction Workers' Welfare Cess Act, 1996, the Building and other Construction Workers' (RE&CS) Rules, 1998 and the Building and Other Construction Workers Welfare Cess Rules, 1998.

- c. Cess as per the prevailing rate, shall be deducted at source from bills of the SUB-CONTRACTOR by the engineer-in-Charge of the contract and remitted to the "Secretary, Building and Other Construction Workers Welfare Board" of the concerned State. The SUB-CONTRACTOR shall be responsible to submit final assessment return of the cess amount to the assessing officer after adjusting the cess deducted at source.

78.0 INTERMEDIATE CONSTRUCTION MILESTONE - VOID

79.0 SINGLE POINT RESPONSIBILITY

- 79.1 The entire work as per scope of work covered under this contract shall be awarded on single point responsibility basis.

80.0 BONUS FOR EARLY COMPLETION

- 80.1 The Clause 27.3 of GCC for Bonus for early completion shall not be applicable in this Contract.

81.0 VOID

82.0 VOID

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

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

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84.0 SUB-LETTING OF WORKS

Please refer clause no.54 of ITB, Vol I

85.0 JOINTS MEASUREMENT OF WORK EXECUTED, BILLING, INVOICE AND PAYMENTS.

85.1 Measurement shall be recorded as per the methods of measurement spelt out in Specification/Contract Documents. The PMC/IGGL site engineer/DGM/CM will check the measurement as recorded in the Measurement Books/Bills.

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

Please refer clause no. 48 of ITB.

87.0 EWAY BILL / ROAD PERMIT: Shall be issued by contractor only for transportation of free issue material from one state to another.

88.0 LOCAL EMPLOYMENT

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

89.0 LOCAL SKILL DEVELOPMENT

Contractor's scope shall also include to provide/ conduct a training program to develop/ enhance skill of local people in association with local technical (Diploma/ ITI) Institute through their skilled manpower (i.e. Forman, Welder Grinder, Fitter, NDT Experts etc.) as a part of Govt. of India's ambitious Skill Development Program.

90.0 QUARTERLY CLOSURE OF THE CONTRACT

Please refer clause no. 44.1 of ITB.

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91.0 COMPLETION CERTIFICATE

"Engineer-in-charges against the contract shall be RCM of PMC, however, the completion certificate shall be issued by IGGL. The provisions of GCC are modified to this extent."

92.0 PRADHAN MANTRI SURAKSHA BIMA YOJANA (PMSBY) AND PRADHAN MANTRI JEEVAN JYOTI BIMA YOJANA (PMJJBY)

Contractor shall ensure that all its personnel deployed under this contract have obtained additional insurance coverage under the Pradhan Mantri Suraksha Bima Yojana (PMSBY) and Pradhan Mantri Jeevan Jyoti Bima Yojana (PMJJBY) through the participating banks and submit the proof of such insurance coverage to the satisfaction of IGGL. The cost of the insurance premium amount for both the above schemes shall be borne by the contractor giving evidence/proof to IGGL in this respect and Contractor shall suitably consider the same in their bid.

Both the schemes are to be regulated continuously on yearly basis and the same should be renewed on each successive relevant date in subsequent years.

93.0 E-MEASUREMENT

IGGL will process the Bills with MB through E-Measurement Portal available in IGGL INTRANET under Project Department. Accordingly Contractor is required to forward the RA Bills in E-Measurement Portal through PMC,CIC/EIC/SIC whichever is applicable.

ANNEXURES TO SCC



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ANNEXURES TO SCC**C O N T E N T S**

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	:	Specification for Quality Assurance System requirements from Bidders
Annexure-7	:	Specification for Health, Safety and Environment (HSE) Management
Annexure-8	:	Conditions for Issue & Reconciliation of Material
Annexure-9A	:	List of Minimum Equipments Required to be Owned by the Bidder - DELETED
Annexure-9B	:	Minimum Construction Equipments to be Deployed by the Bidder.
Annexure-10	:	Minimum no. of Skilled Manpower to be deployed
Annexure-10 A	:	Experience Criteria for Key Personnel to be deployed
Annexure-11	:	Hiring / Recovery Rate for Deployment of Manpower
Annexure-12	:	Equipment Hiring / Recovery Rate
Annexure-13	:	List of Equipment to be maintained during Extended Stay Period - DELETED
Annexure-14	:	List of Manpower to be maintained during Extended Stay Period - DELETED
Annexure-15	:	List of Camp / Office / Storage Yard / Vehicle etc to be maintained during Extended Stay Period - DELETED



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SCOPE OF WORK

(ANNEXURE-1 TO SPECIAL CONDITIONS OF CONTRACT)

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ANNEXURE-1 TO SCC

1.0 SCOPE OF WORK

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

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SCOPE OF SUPPLY

(ANNEXURE-2 TO SPECIAL CONDITIONS OF CONTRACT)

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ANNEXURE-2 TO SCC

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, if any, 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 to work site(s) at his own cost.

IGGL's designated store and dumpyard for this project shall be located as follows:

SV-14 (GNPL), Village - Koibortta Gaon, PS – Jorhat, P. O. - Bahona Tini Ali, Dist - Jorhat , Assam, Pin – 785101

Conditions for Issue and Reconciliation of Materials shall be as per Document enclosed as **Annexure-8** to Special Conditions of Contract.

1.2 Contractor's Scope of Supply

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

1.3 Designated Areas for return of surplus material

Surplus material after execution of work shall be returned back to following locations:

SV-14 (GNPL), Village - Koibortta Gaon, PS – Jorhat, P. O. - Bahona Tini Ali, Dist - Jorhat , Assam, Pin – 785101



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COMPLETION SCHEDULE (ANNEXURE-3 TO SPECIAL CONDITIONS OF CONTRACT)

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ANNEXURE-3 TO SCC

COMPLETION SCHEDULE / COMPLETION PERIOD

Name of Work	Completion Schedule / Completion Period
LAST MILE CONNECTIVITY WORK INSIDE NRL UNDER GUWAHATI- NUMALIGARH PIPELINE (SECTION-1) FOR NORTH EAST GAS GRID (NEGG) PIPELINE PROJECT	Completion schedule shall be 3.5 (Three & half) months from the date of Fax of Acceptance (FOA) for Mechanical Completion & Commissioning including mobilization period of 15 (fifteen) days .

Notes:

1. The completion schedule as mentioned above is for the total scope of work including closure of contract (work order) as mentioned in the bidding document and includes the **15 days** mobilization period.
2. Mechanical Completion shall mean completion of all works related to aboveground piping works and associated works including hydrotesting and making the system ready to start commissioning activities.
3. Overall contract completion period shall be reckoned from the date of making the pipeline/piping ready for gas-in (as certified by the Engineer-In-charge). For all contractual matters including but not limited to applicability of PRS, the overall contract completion period shall be considered.
4. The completion certificate will be issued by the CLIENT/PMC only after liquidation of all Punch-list points.

(STAMP & SIGNATURE OF BIDDER)



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MEASUREMENT OF WORK (ANNEXURE-4 TO SPECIAL CONDITIONS OF CONTRACT)

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ANNEXURE-4 TO SCC

MEASUREMENT OF WORK

1.0 GENERAL

- 1.1 The mode of measurement shall be as mentioned in relevant standard specification incorporated in the Bidding Document. Any other mode of measurements not covered in above specifications shall be followed in accordance with relevant BIS codes/ Schedule of Rates/ Specifications etc. and/ or as decided by Engineer-in-charge.
- 1.2 Payment will be made on the basis of joint measurements taken by Contractor and certified by 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-



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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 the 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 1½" and below shall be fabricated and erected as per requirements by the contractor at no additional cost and his rates for piping of size 1½" 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.



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- 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.

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5.0 ELECTRICAL WORKS - Deleted

6.0 INSTRUMENTATION WORKS - Deleted

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 structure painted.
- II) Welds, bolts, nuts, washers etc. shall not be measured and rates for painting of structure shall be inclusive of painting such items.



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TERMS OF PAYMENT (ANNEXURE-5 TO SPECIAL CONDITIONS OF CONTRACT)

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ANNEXURE-5 TO SCC

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 TERMINALS WORKS

1.1 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.

1.2 Civil 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.

1.3 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.

1.4 Items including supply of finished goods (Mechanical)

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- 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.

1.5 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.

1.6 Supply of Materials and All Other Works (not mentioned above)

- 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%

Note: Any further breakup of each activity for the payment purpose can be done depending upon the site situation/requirement and Recommendation by Engineer-In-Charge and Approval of Construction-In-Charge.

2.0 PAYMENT METHODOLOGY

- 2.1 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.
- 2.2 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"
- 2.3 Void
- 2.4 Employer will release payment through e-payments only as detailed in the Bidding Document.
- 2.5 Further break-up of Lumpsum Prices, if deemed necessary for any progressive payment of individual item may be mutually arrived at between Engineer-in-Charge and the Contractor.



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- 2.6 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.
- 2.7 Bills shall be raised by contractor in line with check list attached in Tender document.
- 2.8 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.

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SPECIFICATION FOR QUALITY ASSURANCE SYSTEM REQUIREMENTS

(Annexure - 6 to SCC)

(For Details – Refer our Technical Specification No.
MEC/S/05/62/66 of the same enclosed in Vol-II of the Tender)



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**STANDARD SPECIFICATION
FOR
HEALTH, SAFETY AND ENVIRONMENTAL (HSE)
MANAGEMENT AT CONSTRUCTION SITES
(ANNEXURE – 7 to SCC)
(FOR DETAILS – REFER OUR TECHNICAL SPECIFICATION NO.
MEC/S/05/21/65 OF THE SAME ENCLOSED IN VOL-II OF THE TENDER)**



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CONDITIONS FOR ISSUE AND RECONCILIATION OF MATERIAL (ANNEXURE – 8 to SCC)

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ANNEXURE-8 TO SCC

1.0 CONDITIONS FOR ISSUE OF MATERIALS

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

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

1.6 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 accountable scrap	Issue Rate + 25% or Landed Rate + 25% (in case issue rate are not indicated in the contract)



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(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/MECON.
- 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% (2½% accountable + ½% 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 2 M 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% (2½% accountable + ½% non accountable) thereof to cover the scrap allowance, recovery at penal rate

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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.



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LIST OF MINIMUM EQUIPMENTS REQUIRED TO BE OWNED BY BIDDER

(Annexure- 9A of Special Conditions of Contract)

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LIST OF MINIMUM EQUIPMENT TO BE DEPLOYED BY THE BIDDER

(Annexure- 9B of Special Conditions of Contract)

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ANNEXURE-9B TO SCC

List of Minimum Equipment to be Deployed by the Bidder

CATEGORY-1

Sl. No.	Equipment Description	Total Qty
1.	Hydra (8 – 10 MT)	1
2.	DG Welding Machines	2
3.	Pipe Clamp – Internal/External – 18”	1/1
4.	X-Ray / Gamma Source	1
5.	Filling Pumps (required capacity)	1
6.	Pressurization Pump – Motorized	1
7.	Air Compressor – (required capacity)	1
8.	D.G. Sets : 62.5 KVA to 200 KVA (inclusive of generators)	2

CATEGORY-2

Sl. No	Equipment Description	Total Qty
1.	Bevel Cutting Machine –Manual	1
2.	Manual UT Machine	1
3.	Dewatering Pump	1
4.	Pipe/Cable locator	1

Notes:

- Based on availability of front, Contractor shall propose minimum equipment to be deployed and the same shall be finalized by construction-in-charge of IGGL/ PMC on monthly basis. Further, Bidder shall be required to augment the above list with additional numbers/ categories of equipments, tools, tackles, as required and directed by Engineer-In-charge to complete the work within the completion time schedule and quoted price.
- Contractor to ensure **WELDING & NDT** procedure and welders are qualified within **30 DAYS** time after award of contract.
- Bidder shall replace any defective / damaged equipment promptly to complete the work without any time & cost implication to the client / owner.
- After completion of certain activities, in case equipments are not required the same can be demobilised with prior approval of Engineer-In-Charge.

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MINIMUM NO. OF SKILLED MANPOWER TO BE DEPLOYED

(Annexure-10 of Special Conditions of Contract)

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ANNEXURE-10 TO SCC

MINIMUM NUMBER OF SKILLED MANPOWER TO BE DEPLOYED

SL. NO.	DESCRIPTION	REQUIREMENT
1.	Construction Manager	1
2.	Planning engineer	1
3.	QA/ QC engineer	1
4.	Safety officer	1
5.	Qualified Surveyor	1
6.	Welding/ NDT engineer	1/1
7.	Discipline Engineers (Civil/ Mech.)	1/1
8.	Foreman / Supervisor	2
9.	Document controller / Account Officer (for pipe)	1
10.	Store keeper / store in-charge	1/1
11.	Welder (Manual)	2
12.	Fitter	2
13.	Grinder	2
14.	Machine operator	As Required
15.	Blast cleaning crew	1
16.	Electrician / Machine mechanic	As Required
17.	Rigger	2
18.	Drivers	As Required
19.	X-ray / Gamma Ray crew	1
20.	Hydro-testing crew	1
21.	Unskilled workers	4
22.	Station mechanical, pre-fabrication / erection crew	1

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

NOTES:-

- (1) The details of minimum manpower required to be mobilized by the execution contractor to complete the work within schedule is given above and is not exhaustive. Contractor is required to augment the above list with additional numbers/categories of workmen as required and directed by Engineer-In charge to complete the work within the completion time schedule and quoted price.
- (4) The Manpower as identified above should have required qualification and adequate relevant experience.
- (5) Contractor shall mobilize Resident Construction Manager, QA/QC Engineer, Planning Engineer, Safety Officer who will be the permanent employees of the Contractor.

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- (6) CV of proposed Resident Construction Manager, QA/QC Engineer, Planning Engineer, Safety Officer & Welding/NDT Engineer to be submitted. The experience should be related to execution of Hydrocarbon Transportation Pipeline laying/ piping. **Non deployment or unilateral withdrawal of key personnel by the contractor will attract recovery as per the hiring / recovery rates specified in Annexure-11 to SCC.**
- (7) **Based on availability of front, Contractor shall propose minimum manpower to be deployed and the same shall be finalized by construction-in-charge of IGGL/ PMC on monthly basis. Further, Bidder shall be required to augment the above list with additional manpower, as required and directed by Engineer-In-charge to complete the work within the completion time schedule and quoted price.**

Note: These manpower are to be mobilized within 15 days of Fax Of Acceptance or as per written instruction from Engineer-in-Charge. Demobilization of these manpower shall be with approval of Engineer-in-Charge.

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ANNEXURE-10A TO SCC

EXPERIENCE CRITERIA FOR KEY PERSONNEL TO BE DEPLOYED DURING CONSTRUCTION

1. The Bidder must provide a detailed organisational chart indicating the organisation or personnel and equipment for each phase of the Works. CVs of main key persons shall be submitted by the Contractor along with bid and replacement of any of these key persons after LOA issuance shall be approved by Owner / Owner's representative. Key persons shall be deployed during the entire duration of the work till completion of all works. Non deployment of key persons will be subject to recovery as defined elsewhere in the bid.

Following key persons to be deployed during construction as a minimum:

Sl. No.	Position	Qualification & Knowledge	Experience	No. of Key Personnel (minimum)
1.	Construction Manager / Construction In-Charge/Spread-Incharge	Degree / Diploma in Civil / Mechanical Engineering	At least 8 years' experience for Degree holder and 12 years for Diploma holder in Construction of pipeline including station piping in Hydrocarbon Pipelines (Oil & Gas). Out of the 8 / 12 years experience, at least 5 / 8 years experience must be in similar position in works related to construction of hydrocarbon pipeline/piping projects.	As per Annexure 10 to SCC
2.	Safety Officer	Degree / Diploma in Engineering / Project Management	At least 4 years of experience for Degree holder and 8 years for Diploma holder in Safety Management in construction of pipeline (Hydrocarbon pipeline) including station piping for the same.	
3.	QA / QC Engineer	Degree / Diploma in Mechanical Engineering	At least 6 years of experience for Degree holder and 10 years for Diploma holder in quality / NDT management in construction of pipeline including station piping for the same.	
4.	Welding / NDT Engineer	Degree / Diploma in	At least 7 years of experience for Degree holder and 10 years	



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Sl. No.	Position	Qualification & Knowledge	Experience	No. of Key Personnel (minimum)
		Mechanical Engineering	for Diploma holder in quality / NDT management in construction of pipeline including station piping for the same.	
5.	Planning Engineer	Degree / Diploma in Engineering / Project Management	At least 4 years of experience for Degree holder and 8 years for Diploma holder in executing projects in construction of pipeline (Hydrocarbon pipeline) including station piping for the same.	

2. This description is only binding upon the Contractor. He must provide, at his own expense, all the necessary equipment, machinery and personnel even in addition to those indicated in the offer.



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HIRING / RECOVERY RATE FOR DEPLOYMENT OF MANPOWER

(Annexure-11 of Special Condition of Contract)

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ANNEXURE –11 TO SCC

HIRING / RECOVERY RATE FOR DEPLOYMENT OF MANPOWER

1. The labour rates are “all inclusive”. These rates include but are not limited to all payroll costs and allowances, payroll taxes, fringe benefits, protective and/or special clothing, construction supplies required for work of a nature included in this contract, overhead, profit insurance, transportation and travel time.
2. The rates are inclusive of providing hand tools and consumables such as electrodes, filler wire, gases, grinding wheels where the concerned category of labour is expected to use in execution of the job but exclusive of all major equipment and machineries.
3. The normal time labour rates shall apply for all hours worked upto eight (8) hours in a day and overtime rates shall apply for all hours worked in excess of eight (8) hours in one working day, Sunday and Public Holidays. The payment for part of the day shall be made on prorata basis.

Sl. No.	Classification Personnel	Rates per day of Normal Hours	Rate per hour for OT, Sunday & Holiday
		(in Rs.)	(in Rs.)
1.	Foreman	2475	540
2.	Supervisor	2750	600
3.	Engineer	3500	775
4.	Gas Cutter	1155	250
5.	Grinder	1155	250
6.	Brick Mason	800	175
7.	Stone Mason	800	175
8.	Structural welder	1650	360
9.	Qualified Arc welder – manual / semi automatic	1980	330
10.	Qualified Arc welder – automatic	2250	490
11.	Welder helper	650	140
12.	Pipe Fitter /Bender	1000	220
13.	Structural Fitter	850	185
14.	Pipeline Fitter	1000	220
15.	Coater	850	185
16.	Mechanic	850	185
17.	Site Equipment / Machine Operator	850	185
18.	Electrician	1000	220
19.	Fabricator	1000	220



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Sl. No.	Classification Personnel	Rates per day of Normal Hours	Rate per hour for OT, Sunday & Holiday
		(in Rs.)	(in Rs.)
20.	Carpenter	800	175
21.	Plumber	800	175
22.	Painter	800	175
23.	Cable Jointer	800	175
24.	Instrumentation Technician	850	185
25.	Insulator	700	150
26.	Rigger	750	165
27.	Bhisti (water man)	650	145
28.	Heavy duty driver	1000	220
29.	Civil Surveyor	1750	385
30.	Document Controller	1000	220
31.	Account Officer	1500	330
32.	Store Keeper / Incharge	1000	220
33.	AUT Interpreter	5000	750
34.	Liasioning Team (2 persons)	2000	430
35.	Light duty driver	660	150
36.	Sand Blaster	735	165
37.	Qualified Surveyor	1750	385
38.	Unskilled Worker	650	140
39.	Construction Manager	10000	1000
40.	QA/QC / Safety / Planning / NDT Engineer / Spread-in charge/ Billing Coordinator	5000	750

(SIGNATURE OF BIDDER)**NOTES:-**

1. Rates are final and Tenderer is to sign only without deviation.
2. In case of foreign bidder, conversion rate applicable on one day prior to price bid opening date published by the State Bank of India will be considered.
3. The recovery rates shall be as following:
 - a) For Sl. No. 1-38; the rates provided above plus 20% (twenty percent)
 - b) For Sl. No. 39 & 40; the rates provided above plus 50% (fifty percent)

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EQUIPMENT HIRING/RECOVERY RATES

(Annexure-12 of Special Condition of Contract)



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ANNEXURE – 12 to SCC**HIRING/RECOVERY RATE FOR EQUIPMENTS**

Sl. No.	Equipment	HIRING / RECOVERY RATES (IN INR) (Per Day): 8 Hrs INCLUDING CONSUMABLES & FUEL
1	Excavator / Back Hoe-Ex 280 / 300 & Above or Equivalent	10,000
2	Excavator / Back Hoe-Ex 200 & Above or Equivalent	8,000
3	Pipe Layer/Side Boom – 70 T & Above Capacity	10,000
4	Pipe Layer/Side Boom – 60 T & Above Capacity	9,500
5	Pipe Layer/Side Boom – 40 T & Above Capacity	8,500
6	Pipe Bending Machine	7,500
7	Dozer with Ripper – D7/D6 or Equivalent	6,500
8	DG Welding Machines	1,800
9	Semi Auto Welding Machines	2,500
10	Dozer with Ripper – D8 or Equivalent	10,000
11	Hydra (upto 10 MT)	4,000
12	Hydra (above 10 MT - upto 25 MT)	5,000
13	Hydra (above 25 MT)	5,800
14	Horizontal Auger Boring Machine with Rock breaking tool	4,500
15	Pipe Clamp (Pneumatic/Hydraulic) – Internal	1,500
16	Tyre Mounted Cranes (above 10 and upto 30 MT)	7,500
17	Tyre Mounted Cranes (above 30 and upto 75 MT)	15,000
18	Tyre Mounted Cranes (above 75 MT)	25,000
19	X-Ray M/C – Internal Crawler	2,500
20	X-Ray M/C – External	2,500
21	Gamma Source	750
22	Water Lifting Pump (400 m ³ /hr. & above)	900
23	Filling Pumps (400 TO 1000 M ³ /HR)	950
24	Pressurization Pump – Motorized	3,500
25	Induction/Resistance Heating Equipment or LPG Multi Torch.	4,000
26	Air Compressor – (300CFM)	4,000
27	Air Compressor – (450/600/800 CFM)	4,200
28	Air Compressor – (1000-1500 CFM)	4,500
29	D.G. Sets : 62.5 KVA to 200 KVA (inclusive of generators)	5,000
30	Blast Cleaning Machine	500



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31	Pipe Trailers (FB / Semi Low Bed)	7,000
Sl. No.	Equipment	HIRING / RECOVERY RATES (IN INR) (Per Day): 8 Hrs INCLUDING CONSUMABLES & FUEL
32	Mono drill crawler mounted	3,500
33	Hand drill(pneumatic)for rock blasting	2,500
34	Rock breaker attachment	4,000
35	Dozing Pump	500
36	Bevel Cutting Machine –Manual	750
37	UT Machine with operator	1,500
38	Dewatering Pump	1,500
39	Holiday Detector Unit	500
40	Dead WT Tester	500
41	Dumper / Tippers	4,000
42	Pipe locator	500
43	Pipe Clamp – External	600
44	Pipe Trailer for Coated Line Pipe	7,500
45	Rock Breaking Machine with Excavator	10,000
46	Grinding machine	250
47	Gas cutting set with cylinders	750
48	Trucks (upto 9 T) with driver	5,000
49	Car/Jeep with driver (5 Seater)	2,000
50	Car/Jeep with driver (7 Seater)	2,500
51	Tractor with trolley	2,000
52	Tripod with 5 Tons Chain Pulley Block	400
53	Pneumatic Drill (Tractor mounted for blasting) with Compressor	5,000
54	JCB Excavator	8,000
55	JCB Excavator with rock breaking tool	12,000
56	Moling machine (Manual)	3,000
57	Moling machine (Machine)	5,000
58	Fusion jointing Machine	5,000
59	Concrete mixer 0.25 to 0.40 Cum with hopper or as required.	1,000

1. Rates are inclusive of operators / drivers / Fuel /POL and consumables.
2. Rates are inclusive of contractor's overheads & profit.
3. In case of foreign bidder, conversion rate applicable on one day prior to price bid opening date published by the State Bank of India will be considered.
4. The recovery rates shall be the rates provided above plus 20% (twenty percent).

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5. Hiring rates of above equipments are for one shift (i.e. 8 Hrs). Hiring rates for two shifts i.e. 16 hrs are 1.25 times of above rates & hiring rates for three shifts i.e. 24 hrs are 1.5 times of above rates

(SIGNATURE OF BIDDER)

SECTION VI
PARTICULAR JOB SPECIFICATION

PARTICULAR JOB SPECIFICATION

PIPELINE LAYING WORKS



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Particular Job Specification
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1. INTRODUCTION

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 will be connected to National gas grid at Guwahati through Barauni-Guwahati pipeline.

M/s IGGL has awarded M/s MECON Limited Project Management Consultancy (PMC) services for North-East Gas Grid pipeline Project. The Guwahati Numaligarh pipeline - 24" NB x 386.264 Km (approx.) along with terminals has already been executed under NEGG Project - Section 1 in the state of Assam.

M/s IGGL further proposes the Last Mile Connectivity work inside Numaligarh Refinery Limited (NRL) which consists of fabrication, installation, testing, and commissioning of approximately 1.1 km of above-ground piping to be laid on sleepers, structural supports and trestles/pipe racks, from the IGGL Natural Gas skid at Receiving Terminal to the NRL skid, in accordance with the defined scope of work. Also, approx. 350 m above-ground pipeline is to be laid for connection of Scrapper vent (at RT- NRL) to newly laid flare line of NRL.

The schematic route diagram of the pipeline/piping work is enclosed as **Appendix-III**.

This document covers details of work tendered, scope of work, scope of supply and other requirements pertaining to pipeline/piping work inside NRL premises. Details of associated Civil and Structural works are covered elsewhere in the Bid document.

2. WORK TENDERED

The scope of work under the present tender includes the fabrication, installation, testing, and commissioning of approximately 1.1 km of above-ground piping, along with the construction and installation of sleepers on ground and inside culverts, structural supports, trestles (as required), from the IGGL Natural Gas skid at Receiving Terminal to the NRL skid, in accordance with the defined scope of work. Also, approx. 350 m above-ground pipeline is to be laid for connection of Scrapper vents (at RT- NRL) to existing flare line of NRL.

The work tendered as part of this Bid document includes supply of materials (other than free issue items), survey of the piping route (including alignment, ground profile,



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**LAST MILE CONNECTIVITY WORK INSIDE
NRL PREMISES UNDER GUWAHATI-
NUMALIGARH PIPELINE (SECTION-1) FOR
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underground/aboveground utilities etc.) for preparation of IFC drawings, fabrication, installation of above ground piping as per IFC drawing including but not limited to Construction Management, HSE & Quality Management, Survey, levelling, welding, hook-up, NDT and destructive testing, construction of culverts at road crossings to facilitate installation of above ground piping, construction of sleepers, fabrication and installation of structural supports, trestles (as required) and restoration of excavated roads, drains and working area, hydro-testing, flushing/dewatering, hook-up with existing pipeline/skid, drying, nitrogen purging (as applicable), commissioning.

Additionally, the scope involves the construction of culverts to facilitate the above-ground piping across road crossings; construction and installation of sleepers and structural supports within culverts, restoration of excavated areas such as roads, nalas along the Piping Corridor.

Major scope of work envisaged under present tender is as follows:

SL.No.	DESCRIPTION	MAJOR SCOPE OF WORK ENVISAGED IN PRESENT TENDER
1	Mechanical/ Piping Works	- Supply of materials as per the defined scope of work - Obtaining work permits/permissions for work inside refinery - Fabrication including Non-Destructive Testing (NDT), installation including making loops at the location of crossing of foreign pipeline/structure, all valves, fittings, painting, hydrotesting (Including supply & installation of vents/drains), flushing/dewatering, drying, nitrogen purging and commissioning of the above-ground piping system. - Contractor shall consider suitable equipment, platforms/scaffolding etc. for working at height (pipe racks/trestles). - Hook-up of the piping system with the existing pipelines. - Removal of scrap from the pipeline route. - Digitization of Radiographic Testing (RT) films. - Restoration, final documentation, contract closure,



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		and reconciliation works.
2.	Civil Works	- Supply and construction of culverts across road crossings to facilitate installation of above ground piping. - Supply and construction of sleepers for above ground piping. - Restoration of excavated roads, Drain, Right of Way (ROW).
3	Structural work	- Fabrication and installation of structural supports. Trestles (as required), crossovers/platforms, modification of existing crossovers/platforms (wherever required), other structural works as per scope of work.

Since the work is to be executed within the confined premises of NRL, bidders are advised to visit the site and assess the nature and quantum of the job. Bidders are expected to familiarize themselves regarding the form and nature of the site conditions including climatic conditions, the extent and nature of work, material requirements for completion and available means of access to the work etc. before bidding. Contractor shall follow all HSE guideline of Owner/NRL including work permits/permissions, working hours etc.

Civil and structural works shall be carried out as per relevant particular job specification provided elsewhere in the Bid document.

3. SCOPE OF WORK

All such works that are not specifically mentioned below but are otherwise required for the satisfactory completion of the job in all respect shall be deemed to be included in the Contractor's scope of work.

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

The detailed scope of work related to the above-ground piping system shall generally include, but not be limited to, the following:

- 3.1 Mobilizing and providing all equipments, 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.



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- 3.2 Carrying out all topographic and/ or geotechnical survey as required. Survey of piping route (including alignment, ground profile, underground/above ground utilities etc.)
- 3.3 Preliminary pipeline route diagram, equipment layouts/ Plot plans & P&ID 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 prepared based on the survey details like pipeline alignment, topographical data, underground/aboveground utilities, existing facilities etc. provided by the contractor and issued to the Contractor for execution.
- 3.4 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.
- 3.5 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 above ground piping complete, with all associated civil and structural 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.
- 3.6 Procurement and supply of all materials, equipments 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)/work shop(s) including arranging all necessary intermediate storage area(s) thereof, as required.
- 3.7 Fabrication, erection, testing of all above-ground piping system including installation of pipes, flanges, fittings etc., carrying out welding, NDT including radiography, weld repairs/ retesting, cleaning/ flushing, hydro testing, dewatering, functional testing, cutting of pipe 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.
- 3.8 Preparation of isometrics and/or fabrication drawings required for the purpose of fabrication during execution of work.



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- 3.9 Obtaining all necessary approvals and work permits from concerned local authorities (NRL) 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.
- 3.10 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 shall be in accordance with relevant specifications enclosed with the Contract document.
- 3.11 Installation of all types of valves (manual/ actuated), pressure gauges etc. for all sizes and ratings including fixing of gaskets, bolts, studs and nuts of all sizes, ratings and materials.
- 3.12 All associated civil works, viz. levelling, filling and compaction of soil in piping route as required, removal of scrap/ debris in the piping route (as required), excavation of pits, gravel filling, paving, restoration of road/nala as required etc.
- 3.13 All associated structural and mechanical works including supply of all materials required, unless covered separately elsewhere in the Bid document, including construction of foundations/sleepers (PCC/ RCC works) for pipe supports and sleepers; fabrication and erection of supporting structural elements for piping such as shoes, clamps, anchors, guides, insert plates, brackets, structural column, operating platforms, pipe crossovers, change of existing support/ additional supports installed by other contractor as directed by Engineer-in charge etc. Contractor shall provide the structural materials as per details currently included in the tender document or as per details furnished subsequently.
- 3.14 Supply of bolts, nuts, gaskets, washers, U bolts, clamps, clips, gaskets for supports for all piping works.
- 3.15 Supply, fabrication and erection of supporting structural elements for piping such as shoes, clamps, anchors, guides, insert plates, brackets, structural column etc.
- 3.16 All associated structural and civil works including supply of all material required, covered separately elsewhere in the Bid document.
- 3.17 Hook-up of piping with existing piping at the battery limit including cutting of



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temporary test header/piping, re-beveling, NDT, fit-up, welding, radiography etc. including interface/ coordination as required with other Contractor(s)/Agencies.

- 3.18 Painting of above ground piping (including supply of materials), structural steel elements, for pipe supports and all related miscellaneous items as required and 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.
- 3.19 Cleaning (card board blasting), hydro testing, dewatering and drying of piping system as per specifications enclosed. Nitrogen purging and commissioning of piping system including providing all equipments, manpower, machinery, consumables.
- 3.20 Repair of leaks/ burst/ defects shall be carried out by the contractor. Contractor shall submit a report for failure to Company.
- 3.21 Localized purging/ inertisation including supply of nitrogen during hook up with existing Pipeline/ piping at existing terminal, if any.
- 3.22 Final clean up and restoration of site, facilities etc. as per the requirement of COMPANY/ NRL/ Engineer-in-Charge including filling (wherever required) and grading of areas for avoiding any local flooding of area.
- 3.23 Preparation of as-built drawings, documents and project records as per instructions of Engineer-in-Charge including furnishing of all Test Certificates/ Inspection Reports for all materials used for permanent installation.
- 3.24 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.
- 3.25 Obtaining all statutory clearances, approvals, permissions and hot work permit for the works as required.
- 3.26 Fabrication and erection of piping supports and change of existing support/ additional supports installed by others as directed by Engineer-in charge.
- 3.27 Any other works not specifically listed herein but required for completion of the works in all respects.
- 3.28 In case any activity though not specifically covered in schedule of rates description



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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.

- 3.29 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.
- 3.30 Civil & Structural works shall be carried out as per the scope detailed in particular job specification enclosed as **Annexure-I** and **Annexure-II** and **SOR** enclosed elsewhere with the tender.

4. SCOPE OF SUPPLY

4.1 Materials to be supplied by COMPANY as Free Issue

All the required material shall be supplied by the contractor to complete the piping system in totality; however, if company supplies any item such as the pipes and other free issue material required for permanent installation to the Contractor during the execution stage as free issue materials, in that case transportation including loading/unloading/handling of the piping material from designated storage yards to work site shall be in the scope of the CONTRACTOR. Further the CONTRACTOR has to ensure safe storage. It is the responsibility of installation contractor to return surplus pipes and other free issue material to the COMPANY designated storage yard as per instructions of Engineer In-Charge after completion of installation works.

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 of these materials on their truck/trailers for transportation.
- 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.



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- 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 same from Contractor's stock yard(s)/worksite(s)/work shop(s) to the COMPANY's designated storage point(s). 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, transportation of all materials and consumables required for completion of the work as defined in this bid document except the free issued material, if any, shall be entirely the CONTRACTOR's responsibility and the item rates quoted for the execution of the WORK shall be inclusive of supply including transportation/loading/unloading/handling 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 (shall be 3.2 certified--refer APPENDIX-VI – 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.



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- ii. All materials for all types of pipeline markers including cement, sand, reinforcements, structural steel etc. and paint conforming to highly corrosive environment as per specification enclosed with the bid documents.
- iii. All materials and consumables required for external corrosion coating of field weld joints.
- iv. All materials including consumables, nitrogen etc. required for hook-up with existing facilities and equipment.
- v. Mobilizing and providing all necessary barricading material, safety signboards, warning lights etc. to safeguard the piping against accidents during construction of line in the NRL premise.
- vi. All safety tools, tackles, devices, apparatus, equipment etc. including ladders and scaffolding complete as required.
- vii. 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 contractor's account.
- viii. All types of coating and painting materials including primer and paints suitable for highly corrosive environment for painting above ground piping.
- ix. 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 hydro-testing.
- x. All materials required for civil, structural and general civil works including structural steel, cement, reinforcement, concreting, grouting etc. including all types of equipment and material required for excavation/ construction of pits for equipment and piping installations and steel/ structural steel materials of all types.
- xi. 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



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construction of the facility.

- xii. 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.
- xiii. 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 equipment etc.
- xiv. All safety tools, tackles, devices, apparatus, equipment etc. including ladders and scaffolding complete as required.
- xv. Steel materials such as structural steels, reinforcement steels and steel for all types of supports, foundations, ladders, platforms, etc.
- xvi. 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 (if any) shall not be used for fabrication of supports and support saddles etc.
- xvii. Mobilizing Pipe/ cable locator for locating existing pipelines/ cables.
- xviii. Sand ridges (sand, polyethylene sheets etc.) and other materials for stacking of surplus pipes at Company's designated storage yard.
- xix. Corrosion inhibitor, oxygen scavengers and bactericides for water used for hydrostatic testing including water for testing.
- xx. Required quantities of nitrogen for pre-commissioning and commissioning of Pipeline/piping and associated facilities, if required.
- xxi. Supply of Assorted pipes including transportation/loading/unloading/handling.
- xxii. All pigs for cleaning, gauging, filling, dewatering, swabbing, drying, pre-commissioning and commissioning of the pipeline.



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xxiii. All materials i.e. fittings, flanges, valves, blind flange, vent, drain etc. required for cleaning and nitrogen purging for pipe section, manpower, equipment, pigs, consumables, nitrogen required for carrying out commissioning of piping 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.

xxiv. All other materials not specified above but required for successful completion of the entire work whether temporary or permanent in nature.

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.

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

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



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Charge and remedial measures taken as directed.

5. All machined surfaces shall be properly greased and should be maintained and protected from damages.
6. Openings of equipment, machinery, valves etc. shall be kept blocked/ covered with blinds to prevent entry of foreign matter.
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. VOID

6. 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 above ground piping/mechanical works only. Detailed scope of work related to civil and structural works 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).

7. OTHER CONDITIONS OF BID

7.1 Basis of Work

All piping works shall be carried out as per following:

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

7.2 Survey for Above ground piping Drawing

Tentative piping route and P&ID drawings are included in the Bid package. These drawings/ details are indicative only and are furnished to enable to estimate the



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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 survey data of above ground piping route indicating alignment, ground profile, underground/above ground structures/utilities.

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.

7.3 RESTRICTION IN PIPING CORRIDOR & WORKING IN AREA OF EXISTING FACILITIES.

The Contractor shall execute the above-ground piping work within the NRL premises. The piping shall be installed along roads, between fencing and drains, through culverts, on existing pipe racks and on trestles (if required). The Contractor is deemed to have considered all such site conditions/restrictions while preparing the bid. Accordingly, no additional compensation, whether in terms of time or cost, shall be admissible on this account.

For piping installation work within existing terminal facilities, Contractor shall obtain all necessary permissions for working in/ around the facility including hot work permit as applicable and shall be fully responsible for the safety of the existing facilities/ areas during all phases of work and shall fully abide by and comply with the restrictions and conditions of COMPANY/ concerned authorities imposed on Contractor from time to time. Providing all safety appliances, gas detectors required during execution of the work, arranging of adequate firefighting equipment viz. fire brigade, fire extinguisher, shielding from existing facilities, oxygen mask etc. for carrying out the work safely to the satisfaction of COMPANY shall be done by the Contractor.

Contractor may be permitted to work for limited hours in such places. For working on Sundays/ Holidays, the required permission may be obtained well in advance. During any emergency, work shall be suspended till further permission is obtained by Contractor.

The structure/ utilities/ pipelines/ electric poles/ telegraph poles existing in the vicinity of proposed pipeline/piping route shall be properly taken care so that the stability of existing facilities is not affected during construction.

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7.4 PARTICULAR INSTRUCTIONS

- 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.
- The contractor shall be responsible for overall entire quality control activities for the present project.
- While carrying out the above ground piping activities any damage to other utilities to be repaired by the contractor to the full satisfaction of the utility agency/concerned authority. Any claim arises out of damage of other utilities shall be borne by the contractor.
- Contractor proponent shall construct the above ground piping infrastructure and adopt safety measures as per the standards & specification laid down by the concerned agencies from time to time and as per the HSE policy of NRL.
- Contractor proponent is required to comply with the manufacturing, Storage and import of Hazardous Chemicals Rules -1989 framed under the Environment (protection) Act 1986.
- On completion of all temporary work structures, surplus materials and wastes shall be suitably disposed off.
- Similarly, any additional conditions issued by statutory authorities will also have to be complied with by the contractor without any cost implications.

7.5 PREPARATION OF THE CONSTRUCTION SITES

The overall duration of the works, at every point of the above ground piping route, shall not exceed the permit condition of relevant authority.

7.6 EXCAVATIONS

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.

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7.7 EXCAVATED MATERIAL

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. Wherever required, the Contractor shall remove the excavated material from the site and dispose off at a designated location identified by the Company.

7.8 SIGNALLING, FENCING AND LIGHTING

- 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.
- 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.
- The Contractor shall install barricading and lighting of all trial-holes, trench sections and other excavations.
- 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, temporary dumping yards, etc.

7.9 BARRICADING

The contractor shall provide the barricades of size 2m wide X 1.5m high of wooden/plastic/steel with necessary supports along the working area to protect/caution the public about the digging work/welding 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.

7.10 SITE VISIT

Bidders are advised to make site visits to familiarize themselves with all the salient features, available infrastructure along the piping work route. Contractor shall be deemed to have considered all constraints and eventualities on account of site conditions along the piping 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 varying to any extent from whatever described in the Bid Package and the drawings furnished along with the Package.

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7.11 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/piping. 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. 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.

7.12 ROAD/DRAIN CROSSINGS

Road and drain crossings shall be executed by constructing culverts. The Contractor shall carry out necessary excavation of roads and drains to facilitate culvert construction and subsequently restore them to original condition as per the specified standards/instruction of EIC. The Contractor shall exercise due diligence to identify existing aboveground/underground utilities such as cables, pipelines and other structures along the piping route and shall take all necessary precautions to avoid any disturbance or damage to the same. 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.

7.13 EXISTING PIPELINE/STRUCTURE CROSSING

Wherever required, the Contractor shall execute piping crossings over/by side of existing pipelines by providing suitable loops in the piping layout. As some portion of the new piping shall run alongside existing pipelines, any necessary modification or removal of existing structures in the piping route such as crossovers, platforms etc. shall also be in the Contractor's scope of work.

7.14 HYDROSTATIC TESTING

Temporary test headers shall be provided and the above ground piping section shall be hydrostatically tested between the temporary test headers only.

All above ground facilities installed by Contractor shall be hydrostatically tested to a minimum test pressure equivalent to 1.5 times design pressure for minimum 6



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hours 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.

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. Hydro test shall be done with corrosion inhibitor, wherever required.

Subsequent to separate hydro testing of above ground piping, the Contractor shall carry out tie-in/ hook up with the existing facilities. Pipes/ prefabricated assembly used for such hook-up shall be pre-tested to a test pressure specified for the pipeline/piping. The Contractor at no extra cost shall provide all materials required for the fabrication of the test headers including drains/vents in piping system wherever required. After successful completion of hydrostatic testing, the Contractor shall dewater the piping section as per the directions of Engineer-in-charge.

7.15 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 Contractor and such records should be handed over to COMPANY.

7.16 PRESERVATION

The positive pressure shall be maintained at 2 bar (g) in the piping system during preservation, if required. The necessary arrangements like valves, fittings, manpower etc. shall be kept for maintenance of pressure in the piping section during idle time.

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7.17 LEAK DETECTION

Contractor shall locate leaks/bursts, if any, and carry out repairing/ replacing of defective pipe length including cutting and removing of defective pipes, and welding into piping system, NDT of the welds, re-testing of piping system including providing all equipments, manpower & consumables without any additional time and cost implication to Owner.

7.18 PRE-COMMISSIONING AND COMMISSIONING ASSISTANCE OF A/G PIPING

Contractor shall be responsible for pre-commissioning and commissioning assistance of the piping 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.

Contractor shall mobilize all equipment, consumables and manpower for carrying out pre-commissioning and commissioning activities.

Contractor shall engage a specialized team/ agency who have previously carried out such operations and shall develop procedures, supervise and monitor the entire operations till the time commissioning operations are completed. Contractor shall mobilize all equipment, materials, consumables including nitrogen, 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 and approved procedure.

7.19 CONTRACTOR'S RESPONSIBILITIES

Appraisal and taking cognizance of site-conditions, piping route, Central Government/state Govt. rules and regulations/ bye-laws, applicable Indian Standards and Codes, authorities having jurisdiction over the work site(s), environmental and pollution rules and regulations including conditions/ stipulations laid down by the concerned authorities etc. The CONTRACTOR is deemed to have recognized any restrictive features and constraints of the site(s), piping route and/ or specific requirements of the work and made due allowance for it in the work to



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be performed by him. Furnishing and mobilizing at site(s) of all construction equipment, manpower, tools and tackles, construction fronts, fully equipped and fully manned with other required support facilities etc.

An onsite – offsite emergency plan shall be prepared and submitted to Disaster Management Authorities/concerned authorities as required.

7.20 TECHNICAL REQUIREMENT

The technical requirements for the pipeline/piping 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 pipeline/piping 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.

8. AS BUILT DOCUMENTS

Contractor shall prepare all documents as per the requirements indicated in Specification for Documentation for pipeline/piping 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/ 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.



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9. 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.

10. DOCUMENTS, SPECIFICATION, STANDARDS AND DRAWINGS AND ADDITIONAL CLAUSES

- Owner shall furnish piping and Instrumentation diagrams (P & I D), preliminary piping route diagram along with the tender. Owner shall also supply design & engineering drawings and construction drawings including general arrangement drawings for piping & mechanical systems and other related/ required systems, at appropriate times and as requisitioned by contractor in his time schedule.
- Contractor shall prepare isometric drawings & bill of materials and submit the same for Owner/ Consultant's approval/ record.
- No construction small or big shall be carried out without proper construction drawings duly approved by Owner's Engineers at head office or site office or Owner's representative duly authorized to do so.
- Any additional survey and data required to complete construction work should be done by Contractor without any extra cost.
- 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. P&ID, Piping route diagram, layout drg. , piping GAD, Isometric, all civil & structural 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 approval shall be wholly at his risk and cost. Soft copy of all as-built drawings shall also be 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, refer enclosed specification for documentation for pipeline construction Specification No. MEC/S/05/21/69 enclosed elsewhere with the tender.

SPECIFICATIONS

The work shall be carried out by CONTRACTOR strictly in accordance with the specifications enclosed in other Volumes of this document.



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Following amendments to Specifications shall be taken into account:

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, D7 film shall be used.
For Gamma Ray, D4 film shall be used.

ADDITIONAL CLAUSES

- 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/ PMC's approval.
- 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 MECON for their review & approval as per terms & condition of tender documents. The date of receipt of these documents/ drawings/ data sheets etc at MECON 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 MECON shall be solely to contractor's account and in no case contractor shall be entitled for any time or cost benefit.



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- 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 requires any sub-supplier drawings to be reviewed/approved by MECON, 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.
- Review/Approval of the contractor's submitted drawings/ documents/ data sheets etc by MECON would be only to review the compatibility with basic design and concepts including 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 MECON during the drawing review stage.
- Storage Yard/ Area maintained by the contractor shall have proper motorable approach, adequate indoor & outdoor area lighting, potable & service water, proper rack & wooden sleeper etc. for staking/ storing the material, availability of material handling equipment of adequate capacity etc.
- 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.

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11.0 DATA SHEETS FOR MECHANICAL ITEMS ETC.
(Appendix-I to Particular Job Specification of Work)

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DATA SHEETS FOR MECHANICAL ITEMS

CONTENTS

I. Valves

DATA SHEET FOR SOCKET WELDED BALL VALVE

1.0 Valve Manufacturer :
 2.0 Valve Size (NB), mm (inch) : **3/4", 1 1/2" NB** ANSI Rating : **800#** Design Standard : **BS EN ISO 17292**
 3.0 MECON's Technical Specification No. :
 4.0 Connecting Pipeline Design Pressure, Bar : **92** Design Temperature, °C : **-29°C to +65°C** Service : **Natural Gas**
 5.0 **Connecting Pipe Specification** :
 5.1 Diameter (OD), mm : **26.7 mm (for 3/4") & 48.3 mm (for 1 1/2")**
 5.2 Material : **A106 Gr. B**
 5.3 Wall Thickness, mm : **5.6 mm (for 3/4") & 5.1 mm (for 1 1/2")**

Valve Construction Design

6.1 Configuration : Reduced Bore ☐ Full Bore ☒
 6.2 End Connections : **Socket Welded as per ASME B16.11**
100mm Extension Pups in ASTM A106 Gr.B , Sch. 160 (for 3/4") and Sch. XS (for 1 1/2")
 6.3.1 Flanges (wherever applicable) : RF ☐ FF ☐ RTJ ☐ NA ☒
 6.3.2 Flange Face Finish : Serrated ☐ Smooth (125 to 200 microinches AARH) ☐ NA ☒
 6.4 Ball Mounting : **Floating Ball**

Valve Material Specification

	Part	Specified Material	Material Offered (Equivalent or superior)
7.1	Body	ASTM A105	
7.2	Ball	13% Cr Steel	
7.3	Body Seat	RPTFE/ DELRIN	
7.4	Gland	13% Cr Steel	
7.5	Stem (No Casting)	13% Cr Steel	
7.6	Body Seal	Grafoil	
7.7	Stem Seal	Grafoil	
7.8	Body Studs/Nuts	ASTM A193 Gr. B7/ A194 Gr. 2H	

8.0 Corrosion Allowance : **1.5 mm** Service : **Natural Gas**
 9.0 Location : Above Ground ☒ Buried ☐
 10.0 Stem Extension Requirement : Yes ☐ No ☒
 11.0 Gear Operator Requirement : Yes ☐ No ☒
 12.0 Gas Operated Actuator Requirement : Yes ☐ No ☒
 13.0 Fire Resistant Design Requirement : **Type-Test as per API 607 / API 6FA**

Valve Testing Requirement

		Test Pressure (min.) (kg/cm ² (g))	Minimum Duration (minutes)
14.1	Hydrostatic Test	210	As per BS EN ISO 17292
	Body Seat	155	As per BS EN ISO 17292
14.2	Air Test	5.6 - 7	As per BS EN ISO 17292

15.0 Anti-Static Testing Requirement : **As per BS EN ISO 17292**

Valve Painting Specification

16.1 Surface preparation by Short Blasting as per grade SA 2 1/2, Swedish Standard SIS-055 909.
 16.2 For above ground installation-Three coats of corrosion resistant paint shall be applied with minimum thickness of 300 micron (Permissible thickness in each coat shall be within 80 to 120 micron). Colour of paint shade shall be RAL-7038, however any change in colour shall be finalized during drawing approval stage.
 17.0 Lock Open/ Lock Close/Normally Close Requirement : **As indicated in P&ID /Schedule of Rates (SOR).**

Notes:

- Charpy V-notch test for body, ball, body seat, gland, stem & studs/nuts shall be conducted as per A370. The test shall be conducted at 0°C. The minimum average absorbed energy per set of three specimen shall be 27 J with an individual minimum per specimen of 22 J.
- Material test certificates and hydrostatic test reports shall be furnished prior to despatch.
- Detailed dimensional drawings showing cross-section with part numbers and materials shall be submitted for Purchaser's approval prior to manufacture of the valves.
- All tests shall be as per BS EN 12266.
- Valves shall have ball position indicator.
- Stops shall be provided for positive alignment of ball with ports and ensure proper installation of handle.
- Each valve shall be provided with a wrench.
- Valves shall be inspected and approved by Purchaser before despatch.
- Gland packing assembly shall permit repair of gland packing under full line pressure.
- Inspection and Testing shall be as per attached QAP, this datasheet, BS EN 12266, other relevant standards & clause no. 6.0 & 7.0 of TS No.: MEC/TS/05/21/002, Rev. 1, Ed. 1.

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DATA SHEET FOR BUTT WELDED END BALL VALVES

1.0 Valve Manufacturer :
 2.0 Valve Size (NB), mm (inch) : 2"NB ANSI Rating : 600# Design Standard : API 6D
 3.0 MECON's Technical Specification No. : MEC/TS/05/21/002, Rev-1, Ed-1
 4.0 Connecting Pipeline Design Pressure, bar : 92 Design Temperature, °C : -29°C to + 65°C

5.0 **Connecting Pipe Specification** :
 5.1 Material : **ASTM A106 Gr. B**
 5.2 Diameter (OD), mm (inch) : 60.3 mm
 5.3 Thickness, mm : 5.54 mm

6.0 **Valve Construction Design**
 6.1 Configuration : Reduced Bore ☐ Full Bore ☒
 6.2 End Connections : Flanged as per ASME B16.5 ☐ Butt Welded as per ASME B16.25 ☒
 6.3 Flanges (wherever applicable) : a) RF ☐ RT ☐ NA ☒
 b) Serrated ☐ Smooth (125 to 200 microinches AARH) ☐ NA ☒
 6.4 Ball Mounting : **Trunnion Mounted**
 6.5 Valve body type : Fully Welded ☐ Two/Three Piece Bolted ☐ Either ☒

7.0 **Valve Material Specification**

Part	Specified Material	Material Offered (Equivalent or superior)
7.1 Body	A 216 Gr. WCB/A 234 Gr. WPB	
7.2 Ball	(A 216 Gr.WCB/A 234 Gr.WPB)+75 µENP coating/AISI410	
Body Seat Rings (No Casting)	AISI 4140 + 75 micron ENP coating/AISI 410	
7.4 Seat Seal	VITON/DEVOLON	
7.5 Stem (No casting)	AISI 4140 + 75 micron ENP coating/AISI 410	
7.6 Stem Seals	VITON/PTFE	
7.7 Stud Bolts/ Nuts	ASTM A 193 Gr. B7/ A194 Gr. 2H	

8.0 Corrosion Allowance : 1.5 mm Service : **Natural Gas**
 9.0 Location : Above Ground ☒ Buried ☐
 10.0 Stem Extension Requirement : Yes ☐ No ☒ Length of Stem Extension, m : N.A
 11.0 Gear Operator Requirement : Yes ☐ No ☒
 12.0 Actuator Requirement : Yes ☐ No ☒
 13.0 Fire Resistant Design Requirement : **Type test as per API 607 / API 6FA.**

14.0 **Valve Testing Requirement**

	Test Pressure (min.), kg/cm ² (g)	Minimum Duration, minutes
14.1 Hydrostatic Test	157	As per API 6D
	114	As per API 6D
14.2 Air Test	5.6-7	As per API 6D

15.0 Anti-Static Testing Requirement : **As per Standard API 6D (Latest Ed.)**

16.0 **Valve Painting Specification**

16.1 Surface preparation by Short Blasting as per grade SA 2 1/2, Swedish Standard SIS-055 909.
 16.2 For above ground installation-Three coats of corrosion resistant paint shall be applied with minimum thickness of 300 micron (Permissible thickness in each coat shall be within 80 to 120 micron). Colour of paint shade shall be RAL-7038, however any change in colour shall be finalized during drawing approval stage.

17.0 Lock Open/ Lock Close/Normally Close Requirement : **As indicated in P&ID./ Schedule of Rates (SOR)**

Notes:

- This Valve Data Sheet shall be read in conjunction with MECON's Technical Specification No. MEC/TS/05/21/002,Rev 1 ,Ed. 1
- Inspection and Testing shall be as per attached QAP, this Data Sheet, MECON's T.S., API 6D and other relevant standards.
- Stops shall be provided for positive alignment of ball with ports and ensure proper installation of handle.
- Short pattern valves (as per API 6D or otherwise) are not permitted. Only long pattern valves are to be supplied.
- Charpy V-notch & Hardness test for body, body adaptor, end flanges, ball, body seat rings, stem & studs / nuts shall be conducted as per Cl. 3.4 & 3.6 of TS respectively or as per relevant material code.
- Compressed asbestos fibre (CAF) shall not be used for body sealing / gasket materials.
- Material for body shall have a guaranteed minimum yield strength of 35000 psi. In case the same cannot be guaranteed, valves shall be provided with a 500 mm pup piece (integrally welded to the valve on each side) with strength equivalent to that of the connecting pipe - **N. A.**
- For welding end, the out of roundness (i. e. difference between maximum and minimum ID at pipe end) shall not be more than 0.5% of pipe OD.
- Valves shall be inspected and approved by Purchaser before despatch.

9. Valves shall be inspected and approved by Purchaser before despatch.									
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SECTION PROCESS & PIPING					CLIENT : INDRADHANUSH GAS GRID LIMITED			 MECON LIMITED	
	NAME	DATE	CHKD	DATE	SUPPLIER :				
DSGN	Sachin	22.11.19	Harsh	22.11.19	SUB SUPPLIER :				
					PROJECT : NORTH EAST GAS GRID PIPELINE				
DRWN					PROJECT				
APPROVED					Anil Kumar DGM			DATA SHEET FOR BW END BALL VALVES (NB ≥ 2")	
SCALE :								REV	
DATA SHEET NO.: MEC/23UU/05/28/M/001/DS/BV/77								0	

DATA SHEET FOR FLANGED END BALL VALVES

- 1.0 Valve Manufacturer : _____
- 2.0 Valve Size (NB), mm (inch) : 2" ANSI Rating : 600# Design Standard : API 6D
- 3.0 MECON's Technical Specification No. : MEC/TS/05/21/002, Rev-1, Ed-1
- 4.0 Connecting Pipeline Design Pressure, bar : 92 Design Temperature, °C : -29°C to + 65°C
- 5.0 **Connecting Pipe Specification** : NA
- 5.1 Material : _____
- 5.2 Diameter (OD), mm (inch) : _____
- 5.3 Thickness, mm : _____
- 6.0 **Valve Construction Design**
- 6.1 Configuration : Reduced Bore ☐ Full Bore ☒
- 6.2 End Connections : Flanged as per ASME B16.5 ☒ Butt Welded as per ASME B16.25 ☐
- 6.3 Flanges (wherever applicable) : a) RF ☒ RT ☐ NA ☐
b) Serrated ☐ Smooth (125 to 200 microinches AARH) ☒ NA ☐
- 6.4 Ball Mounting : **Trunnion Mounted**
- 6.5 Valve body type : Fully Welded ☐ Two/Three Piece Bolted ☐ Either ☒

7.0 **Valve Material Specification**

Part	Specified Material	Material Offered (Equivalent or superior)
7.1 Body	A 216 Gr. WCB/A 234 Gr. WPB	
7.2 Ball	(A 216 Gr.WCB/A 234 Gr.WPB)+75 µENP coating/AISI410	
7.3 Body Seat Rings (No Casting)	AISI 4140 + 75 micron ENP coating/AISI 410	
7.4 Seat Seal	VITON/DEVLOX	
7.5 Stem (No casting)	AISI 4140 + 75 micron ENP coating/AISI 410	
7.6 Stem Seals	VITON/PTFE	
7.7 Stud Bolts/ Nuts	ASTM A 193 Gr. B7/ A194 Gr. 2H	

- 8.0 Corrosion Allowance : 1.5 mm Service : Natural Gas
- 9.0 Location : Above Ground ☒ Buried ☐
- 10.0 Stem Extension Requirement : Yes ☐ No ☒
- 11.0 Gear Operator Requirement : Yes ☐ No ☒
- 12.0 Actuator Requirement : Yes ☐ No ☒
- 13.0 Fire Resistant Design Requirement : Type test as per API 607 for Floating Ball valveFA
Type test as per API 6FA for Trunnion Mounted Ball Valve

14.0 **Valve Testing Requirement**

	Test Pressure (min.), kg/cm ² (g)	Minimum Duration, minutes
14.1 Hydrostatic Test Body	157	As per API 6D
Seat	114	As per API 6D
14.2 Air Test	5.6-7	As per API 6D

- 15.0 Anti-Static Testing Requirement : As per Standard API 6D (Latest Ed.)

16.0 **Valve Painting Specification**

- 16.1 Surface preparation by Short Blasting as per grade SA 2 1/2, Swedish Standard SIS-055 909.
- 16.2 For above ground installation-Three coats of corrosion resistant paint shall be applied with minimum thickness of 300 micron (Permissible thickness in each coat shall be within 80 to 120 micron). Colour of paint shade shall be RAL-7038, however any change in colour shall be finalized during drawing approval stage.

- 17.0 Lock Open/ Lock Close/Normally Close Requirement : As indicated in P&ID./ Schedule of Rates (SOR)

Notes:

- This Valve Data Sheet shall be read in conjunction with MECON's Technical Specification No. MEC/TS/05/21/002,Rev 1 ,Ed. 1
- Inspection and Testing shall be as per attached QAP, this Data Sheet, MECON's T.S., API 6D and other relevant standards.
- Stops shall be provided for positive alignment of ball with ports and ensure proper installation of handle.
- Short pattern valves (as per API 6D or otherwise) are not permitted. Only long pattern valves are to be supplied.
- Charpy V-notch & Hardness test for body, body adaptor, end flanges, ball, body seat rings, stem & studs / nuts shall be conducted as per Cl. 3.4 & 3.6 of TS respectively or as per relevant material code.
- Compressed asbestos fibre (CAF) shall not be used for body sealing / gasket materials.
- Material for body shall have a guaranteed minimum yield strength of psi. In case the same cannot be guaranteed, valves shall be provided with a 500 mm pup piece (integrally welded to the valve on each side) with strength equivalent to that of the connecting pipe - N.A.
- For welding end, the out of roundness (i. e. difference between maximum and minimum ID at pipe end) shall not be more than 0.5% of pipe OD. - N.A
- Valves shall be inspected and approved by Purchaser before despatch.

9. Valves shall be inspected and approved by Purchaser before despatch.										
REV. NO.	DATE	ZONE	DESCRIPTIONS		BY	APPRD				
REVISIONS							REFERENCES			
SECTION PROCESS & PIPING					CLIENT : INDRADHANUSH GAS GRID LIMITED				MECON LIMITED	
	NAME	DATE	CHKD	DATE	SUPPLIER :					
DSGN	Sachin	22.11.19	Harsh	22.11.19	SUB SUPPLIER :					
					PROJECT : NORTH EAST GAS GRID PIPELINE PROJECT					
DRWN										
APPROVED			Anil Kumar DGM		DATA SHEET FOR RF BALL VALVES (NB ≥ 2")			SCALE : DATA SHEET NO.: MEC/23UU/05/28/M/001/DS/BV/78		REV 0

DATA SHEET FOR BUTT WELDED END BALL VALVES

1.0 Valve Manufacturer :
 2.0 Valve Size (NB), mm (inch) : 2"NB ANSI Rating : 600# Design Standard : API 6D
 3.0 MECON's Technical Specification No. : MEC/TS/05/21/002, Rev-1, Ed-1
 4.0 Connecting Pipeline Design Pressure, bar : 92 Design Temperature, °C : -46°C to + 65°C

5.0 **Connecting Pipe Specification** :
 5.1 Material : ASTM A106 Gr. B
 5.2 Diameter (OD), mm (inch) : 60.3 mm
 5.3 Thickness, mm : 5.54 mm

6.0 **Valve Construction Design**
 6.1 Configuration : Reduced Bore ☐ Full Bore ☒
 6.2 End Connections : Flanged as per ASME B16.5 ☐ Butt Welded as per ASME B16.25 ☒
 6.3 Flanges (wherever applicable) : a) RF ☐ RT ☐ NA ☒
 b) Serrated ☐ Smooth (125 to 200 microinches AARH) ☐ NA ☒
 6.4 Ball Mounting : Trunnion Mounted
 6.5 Valve body type : Fully Welded ☐ Two/Three Piece Bolted ☐ Either ☒

7.0 **Valve Material Specification**

Part	Specified Material	Material Offered (Equivalent or superior)
7.1 Body	A 352 Gr. LCB / A 350 Gr. LF2	
7.2 Ball	(A 352 Gr. LCB / A 350 Gr. LF2) + 75 micron ENP coating	
Body Seat Rings (No Casting)	A 350 Gr. LF2 + 75 micron ENP coating	
7.4 Seat Seal	VITON/DEVLON	
7.5 Stem (No casting)	A 350 Gr. LF2	
7.6 Stem Seals	VITON/PTFE	
7.7 Stud Bolts/ Nuts	ASTM A 320 Gr. L7/ A194 Gr. 4	

8.0 Corrosion Allowance : 1.5 mm Service : Natural Gas
 9.0 Location : Above Ground ☒ Buried ☐
 10.0 Stem Extension Requirement : Yes ☐ No ☒ Length of Stem Extension, m : N.A
 11.0 Gear Operator Requirement : Yes ☐ No ☒
 12.0 Actuator Requirement : Yes ☐ No ☒
 13.0 Fire Resistant Design Requirement : Type test as per API 607 / API 6FA.

14.0 **Valve Testing Requirement**

	Test Pressure (min.), kg/cm ² (g)	Minimum Duration, minutes
14.1 Hydrostatic Test	157	As per API 6D
14.2 Air Test	5.6-7	As per API 6D

15.0 Anti-Static Testing Requirement : As per Standard API 6D (Latest Ed.)

16.0 **Valve Painting Specification**

16.1 Surface preparation by Short Blasting as per grade SA 2 1/2, Swedish Standard SIS-055 909.
 16.2 For above ground installation-Three coats of corrosion resistant paint shall be applied with minimum thickness of 300 micron (Permissible thickness in each coat shall be within 80 to 120 micron). Colour of paint shade shall be RAL-7038, however any change in colour shall be finalized during drawing approval stage.

17.0 Lock Open/ Lock Close/Normally Close Requirement : As indicated in P&ID./ Schedule of Rates (SOR)

Notes:

- This Valve Data Sheet shall be read in conjunction with MECON's Technical Specification No. MEC/TS/05/21/002,Rev 1 ,Ed. 1
- Inspection and Testing shall be as per attached QAP, this Data Sheet, MECON's T.S., API 6D and other relevant standards.
- Stops shall be provided for positive alignment of ball with ports and ensure proper installation of handle.
- Short pattern valves (as per API 6D or otherwise) are not permitted. Only long pattern valves are to be supplied.
- Charpy V-notch & Hardness test for body, body adaptor, end flanges, ball, body seat rings, stem & studs / nuts shall be conducted as per Cl. 3.4 & 3.6 of TS respectively or as per relevant material code.
- Compressed asbestos fibre (CAF) shall not be used for body sealing / gasket materials.
- Material for body shall have a guaranteed minimum yield strength of 35000 psi. In case the same cannot be guaranteed, valves shall be provided with a 500 mm pup piece (integrally welded to the valve on each side) with strength equivalent to that of the connecting pipe - N. A.
- For welding end, the out of roundness (i. e. difference between maximum and minimum ID at pipe end) shall not be more than 0.5% of pipe OD.
- Valves shall be inspected and approved by Purchaser before despatch.

REV. NO.	DATE	ZONE	DESCRIPTIONS	BY	APPRD	REFERENCES	DRG. NO.
REVISIONS						REFERENCES	
SECTION PROCESS & PIPING						CLIENT : INDRADHANUSH GAS GRID LIMITED	
						SUPPLIER :	
DSGN						SUB SUPPLIER :	
DRWN						PROJECT : NORTH EAST GAS GRID PIPELINE PROJECT	
APPROVED						SCALE :	
Anil Kumar DGM						DATA SHEET NO.: MEC/23UU/05/28/M/001/DS/BV/79	
DATA SHEET FOR BW END BALL VALVES (NB ≥ 2")						REV 0	

DATA SHEET FOR LOW TEMP. SERVICE SOCKET WELDED BALL VALVE

- 1.0 Valve Manufacturer : _____
- 2.0 Valve Size (NB), mm (inch) : **3/4", 1"** ANSI Rating : **800#** Design Standard : **BS EN ISO 17292**
- 3.0 MECON's Technical Specification No. : _____
- 4.0 Connecting Pipeline Design Pressure,kg/cm2(g) : **92** Design Temperature, °C : **-46°C to +65°C** Service : **Natural Gas**
- 5.0 **Connecting Pipe Specification** :
- 5.1 Diameter (OD), mm : **26.7 mm (for 3/4") & 33.4 mm (for 1")**
- 5.2 Material : **ASTM A333 Gr.6**
- 5.3 Wall Thickness, mm : **5.6 mm (for 3/4") & 4.5 mm (for 1")**
- 6.0 **Valve Construction Design**
- 6.1. Configuration : Reduced Bore ☐ Full Bore ☒
- 6.2. End Connections : **Socket Welded as per ASME B16.11**
100mm Extension Pups in ASTM A333 Gr.6 (Sch. 160) at both ends
- 6.3.1 Flanges (wherever applicable) : RF ☐ FF ☐ RTJ ☐ NA ☒
- 6.3.2 Flange Face Finish : Serrated ☐ Smooth (125 to 200 microinches AARH) ☐ NA ☒
- 6.4 Ball Mounting : **Floating Ball**

7.0 Valve Material Specification

	Part	Specified Material	Material Offered (Equivalent or superior)
7.1	Body	ASTM A350 Gr. LF2	
7.2	Ball	SS316 /ASTM A350 Gr. LF2 + 75µENP coating	
7.3	Body Seat	RPTFE/ DELRIN	
7.4	Gland	SS316	
7.5	Stem	SS316 (No Casting) /ASTM A350 Gr. LF2	
7.6	Body Seal	Grafoil	
7.7	Stem Seal	Grafoil	
7.8	Body Studs/Nuts	ASTM A320 Gr.L7/ ASTM A194 Gr.4	

- 8.0 Corrosion Allowance : **1.5 mm** Service : **Natural Gas**
- 9.0 Location : Above Ground ☒ Buried ☐
- 10.0 Stem Extension Requirement : Yes ☐ No ☒ Length of Stem Extension, m : _____
- 11.0 Gear Operator Requirement : Yes ☐ No ☒
- 12.0 Gas Operated Actuator Requirement : Yes ☐ No ☒
- 13.0 Fire Resistant Design Requirement : **Type-Test as per API 607 / API 6FA**

14.0 Valve Testing Requirement

		Test Pressure (min.) (kg/cm ² (g))	Minimum Duration (minutes)
14.1	Hydrostatic Test Body	210	As per BS EN ISO 17292
	Seat	155	As per BS EN ISO 17292
14.2	Air Test	5.6 - 7	As per BS EN ISO 17292

- 15.0 Anti-Static Testing Requirement : **As per BS EN ISO 17292**

16.0 Valve Painting Specification

- 16.1 Surface preparation by Short Blasting as per grade SA 2 1/2, Swedish Standard SIS-055 909.
- 16.2 For above ground installation-Three coats of corrosion resistant paint shall be applied with minimum thickness of 300 micron (Permissible thickness in each coat shall be within 80 to 120 micron). Colour of paint shade shall be RAL-7038, however any change in colour shall be finalized during drawing approval stage.
- 17.0 Lock Open/ Lock Close/Normally Close Requirement : **As indicated in P&ID.**

Notes:

- Charpy V-notch & Hardness test for body, body adaptor, end flanges, ball, body seat rings, stem & studs / nuts shall be conducted as per relevant material code.
- Material test certificates and hydrostatic test reports shall be furnished prior to despatch.
- Detailed dimensional drawings showing cross-section with part numbers and materials shall be submitted for Purchaser's approval prior to manufacture of the valves.
- All tests shall be as per BS EN 12266.
- Valves shall have ball position indicator.
- Stops shall be provided for positive alignment of ball with ports and ensure proper installation of handle.
- Each valve shall be provided with a wrench.
- Valves shall be inspected and approved by Purchaser before despatch.
- Gland packing assembly shall permit repair of gland packing under full line pressure.
- Inspection and Testing shall be as per this specification, BS EN 12266, other relevant standards&clause no. 6.0&7.0 of TS No.: MEC/TS/05/21/002,Rev. 1,Ed. 1.

REV. NO.	DATE	ZONE	DESCRIPTIONS		BY	APPRD	REFERENCES	DRG. NO.
SECTION							CLIENT : INDRADHANUSH GAS GRID LIMITED	 MECON LIMITED
	NAME	DATE	CHKD	DATE	SUPPLIER :			
DSGN	SACHIN	22.11.19	Harsh	22.11.19	SUB SUPPLIER :			
DRWN					PROJECT : NORTH EAST GAS GRID PIPELINE PROJECT			
APPROVED			Anil Kumar DGM		TECHNICAL SPECIFICATION & DATA SHEET FOR BALL VALVES (NB < 2")		SCALE : DATA SHEET NO.: MEC/23UU/05/28/M/001/DS/BV/80	REV 0

DATA SHEET FOR SOCKET WELED PLUG VALVE

1.0 Valve Manufacturer :
 2.0 Valve Size (NB), mm (inch) : 3/4" NB ANSI Rating : 800# Design Standard : BS:5353
 3.0 MECON's Technical Specification No. :
 4.0 Connecting Pipeline Design Pressure, Bar : 92 Design Temperature, °C : -29°C to +65°C

5.0 Connecting Pipe Specification

5.1 Material : A106 Gr. B
 5.2 Diameter (OD), mm (inch) : 26.7(3/4)
 5.3 Thickness, mm : 5.56

6.0 Valve Construction Design

6.1 Pattern : Short ☐ Regular ☒ Venturi ☐
 6.2 End Connections : Flanged both ends ☐ Flanged as per ASME B 16.5
 : Butt Weld both ends ☐ Butt Weld as per ASME B16.25
 : Socket Weld both ends ☒ Socket Welded 3000# (as per ASME B16.11)
 100 mm Extension Pups in ASTM A106 Gr. B, Sch. 160 at both ends
 6.3 Flanges (wherever applicable) : a) RF ☐ FF ☐ RTJ ☐ NA ☒
 b) Serrated ☐ Smooth (125 to 200 microinches AARH) ☐ NA ☒

7.0 Valve Material Specification

Part	Specified Material	Material Offered (Equivalent or Superior)
7.1 Body	ASTM A105	
7.2 Plug (Lubricated)	ASTM A105 + 75 microns ENP	
7.3 Stem (No Casting)	(AISI 4140 + 75 microns ENP Coating)/ AISI 410	
7.4 Gland	ASTM A105	
7.5 Gland Packing	Graphite/ PTFE	
7.6 Gasket	N.A.	
7.7 Body Studs/Nuts	ASTM A193 Gr. B7/ A194 Gr. 2H	
7.8 Lubricant Screw	Manufacturer's Standard	

8.0 Corrosion Allowance : 1.5 mm Service : Natural Gas
 9.0 Location : Above Ground ☒ Buried ☐
 10.0 Stem Extension Requirement : Yes ☐ No ☒
 11.0 Gear Operator Requirement : Yes ☐ No ☒
 12.0 Gas Powered Actuator Requirement : Yes ☐ No ☒
 13.0 Fire Resistant Design Requirement : Type-Test as per Standard API 607 / API 6 FA

14.0 Valve Testing Requirement

	Test Pressure (min.), kg/cm2(g)	Minimum Duration, minutes
14.1 Hydrostatic Test Body	210	2
Seat	155	2
14.2 Air Test	5.6 - 7	15

15.0 Valve Painting Specification

15.1 Surface preparation by Short Blasting as per grade SA 2 1/2, Swedish Standard SIS-055 909.
 15.2 For above ground installation-Three coats of corrosion resistant paint shall be applied with minimum thickness of 300 micron (Permissible thickness in each coat shall be within 80 to 120 micron). Colour of paint shade shall be RAL-7038, however any change in colour shall be finalized during drawing approval stage.
 16. Lock Open/Lock Close Requirement: As indicated in P&ID / Schedule of Rates (SOR)

Notes:

- Valves shall have an inherent feature using the line pressure to ensure that the line pressure cannot cause taper locking of the plug/ plug movement into the taper, i.e., valves shall be of "pressure-balanced design".
- Painting procedure of valves shall be as per Manufacturer's standard.
- Material test certificates and hydrostatic test reports shall be furnished prior to despatch.
- Charpy V-notch test for body, plug, stem & studs/nuts will be conducted as per relevant material code.
- Detailed dimensional drawings showing cross-section with part numbers and materials shall be submitted for Purchaser's approval prior to manufacture of the valves.
- Valves shall have valve position indicator.
- Stops shall be provided to ensure positive alignment of plug with ports and ensure proper installation of handle.
- Each valve shall be provided with a wrench.
- Valves shall be inspected and approved by Purchaser before despatch.
- Gland packing assembly shall permit repair of gland packing under full line pressure.
- Inspection and Testing shall be done as per data sheet, specification & BS:12266 (Part-I).
- Minimum all pressure containing and controlling parts of the valve shall be provided with EN 10204-3.2 certificate.
- Attached generic QAP shall be admitted for approval after making necessary changes considering 3.2 certification aspect.
- Minimum port area for regular pattern shall be 55%.
- Bidder shall clearly write valves material (equivalent or superior) offered by them against each part/material of the valve in the space provided for. Wherever bidder agrees with valves material as mentioned above in Mecon's datasheet, bidder shall clearly indicate "Agreed".

REV. NO.		DATE	ZONE	DESCRIPTIONS		BY	APPRD			
REVISIONS								REFERENCES	DRG. NO.	
SECTION OIL & GAS					CLIENT : INDRADHANUSH GAS GRID LIMITED SUPPLIER : SUB SUPPLIER : PROJECT : NORTH EAST GAS GRID PIPELINE PROJECT				MECON LIMITED	
	NAME	DATE	CHKD	DATE						
DSGN	Sachin	22.11.19	Harsh	22.11.19						
DRWN										
APPROVED					Anil Kumar DGM	DATA SHEET FOR PLUG VALVES (NB < 2")			SCALE : Data Sheet No.: MEC/23UU/05/28/M/001/DS/PV/76	REV 0

DATA SHEET FOR FLANGED END PLUG VALVE

- 1.0 Valve Manufacturer : _____
- 2.0 Valve Size (NB), mm (inch) : **2"** **ANSI Rating : 600#** Design Standard : **API 6D**
- 3.0 MECON's Technical Specification No. : **MEC/TS/05/62/003, Rev-2**
- 4.0 Connecting Pipeline Design Pressure, Bar : **92** **Design Temperature, °C : -29°C to 65°C**
- 5.0 **Connecting Pipe Specification** **N.A**
- 5.1 Material : _____
- 5.2 Diameter (OD), mm (inch) : _____
- 5.3 Thickness, mm : _____
- 6.0 **Valve Construction Design**
- 6.1 Pattern : Short ☐ Regular ☒ Venturi ☐
- 6.2 End Connections : **Flanged both ends** ☒ Flanged as per ASME B 16.5
 : **Butt Weld both ends** ☐ Butt Weld as per ASME B16.25
 : **Flanged one end, butt weld other end** ☐
- 6.3 Flanges (wherever applicable) : a) RF ☒ FF ☐ RTJ ☐ NA ☐
 b) Serrated ☐ Smooth (125 to 200 microinches AARH) ☒ NA ☐

7.0 Valve Material Specification

Part	Material	Material Offered (Equivalent or Superior)
7.1 Body	ASTM A216 Gr. WCB/ A234 Gr. WPB	
7.2 Plug	(ASTM A216 Gr. WCB/ A234 Gr. WPB) + 75 microns ENP Coating	
7.3 Cover	ASTM A216 Gr. WCB/ A234 Gr. WPB	
7.4 Stem (No Casting)	(AISI 4140 + 75 microns ENP Coating)/ AISI 410	
7.5 Stem Seal	PTFE/Graphite	
7.6 Stud Bolts/ Nuts	ASTM A193 Gr. B7/ A194 Gr. 2H	

- 8.0 Corrosion Allowance : **1.5 mm** Service : **Natural Gas**
- 9.0 Location : Above Ground ☒ Buried ☐
- 10.0 Stem Extension Requirement : Yes ☐ No ☒
- 11.0 Gear Operator Requirement : Yes ☐ No ☒
- 12.0 Gas Powered Actuator Requirement : Yes ☐ No ☒
- 13.0 Fire Resistant Design Requirement : **Type-Test as per Standard API 6FA/ BS EN: 10497**

14.0 Valve Testing Requirement

	Test Pressure (min.), kg/cm2(g)	Minimum Duration, minutes
14.1 Hydrostatic Test Body	157	As per API 6D
Seat	114	As per API 6D
14.2 Air Test	5.6 - 7	As per API 6D

15.0 Valve Painting Specification

- 15.1 Surface preparation by Short Blasting as per grade SA 2 1/2, Swedish Standard SIS-055 909.
- 15.2 For above ground installation-Three coats of corrosion resistant paint shall be applied with minimum thickness of 300 micron (Permissible thickness in each coat shall be within 80 to 120 micron). Colour of paint shade shall be RAL-7038, however any change in colour shall be finalized during drawing approval stage.
- 16.0 Lock Open/ Lock Close Requirement : **As indicated in P&ID / Schedule of Rates (SOR).**

Notes:

- This Valve Data Sheet shall be read in conjunction with MECON's Technical Specification No. MEC/TS/05/62/003, Rev2
- Inspection and Testing shall be as per attached QAP, this Data Sheet, MECON's T.S., API 6D and other relevant standards.
- Stops shall be provided for positive alignment of plug with ports and ensure proper installation of handle.
- Charpy V- notch & Hardness test for body, plug, cover, stem & studs/nuts shall be conducted as per Clause No.: 3.4 & 3.5 of TS respectively.
- Minimum all pressure containing and controlling parts of the valve shall be provided with EN 10204-3.2 certificate.
- Attached generic QAP shall be submitted for approval after making necessary changes considering 3.2 certification aspect.
- Material for body shall have a guaranteed minimum yield strength of 35000 psi. In case the same cannot be guaranteed, valves shall be provided with a 500 mm pup piece (integrally welded to the valve on each side) with strength equivalent to that of the connecting pipe.- **N.A.**
- For welding end, the out of roundness (i. e. difference between maximum and minimum ID at pipe end) shall not be more than 0.5% of pipe OD. - **N.A.**
- Bidder shall clearly write valves material (equivalent or superior) offered by them against each part/material of valve in the space provided for. Wherever bidder agrees with valves material as mentioned above in MECON's data sheet, bidder shall clearly indicate "**AGREED**".

REV. NO.	DATE	ZONE	DESCRIPTIONS	BY	APPRD		
REVISIONS						REFERENCES	DRG. NO.
SECTION OIL & GAS			CLIENT : INDRADHANUSH GAS GRID LIMITED				 MECON LIMITED
			SUPPLIER :				
DSGN Sachin 22.11.19 Harsh 22.11.19			SUB SUPPLIER :				
DRWN			PROJECT : NORTH EAST GAS GRID PIPELINE PROJECT				
APPROVED			Anil Kumar DGM		DATA SHEET FOR RF PLUG VALVES (NB ≥ 2")		SCALE : DATA SHEET NO.:MEC/23UU/05/28/M/001/DS/PV/78
							REV 0

1.0	Valve Manufacturer :		
2.0	Valve Size (NB), mm (inch) :	1" NB	ANSI Rating : 800#
3.0	MECON's Technical Specification No. :		
4.0	Connecting Pipeline Design Pressure, Bar :	92	Design Temperature, °C : -46°C to +65°C
5.0	Connecting Pipe Specification		
5.1	Material :	A106 Gr. B	
5.2	Diameter (OD), mm (inch) :	33.4 (1")	
5.3	Thickness, mm :	4.5	
6.0	Valve Construction Design		
6.1.	Pattern :	Short ☐	Regular ☒
6.2.	End Connections :	Venturi ☐	
		Flanged as per ASME B 16.5	
		Butt Weld as per ASME B16.25	
		Socket Welded 3000# (as per ASME B16.11)	
		100 mm Extension Pups in ASTM A106 Gr. B, Sch. 160 at both ends	
6.3.	Flanges (wherever applicable) :	a) RF ☐	FF ☐
		RTJ ☐	NA ☒
		b) Serrated ☐	Smooth (125 to 200 microinches AARH) ☐
			NA ☒

	Part	Specified Material	Material Offered (Equivalent or Superior)
7.1	Body	ASTM A350 Gr. LF2	
7.2	Plug (Lubricated)	ASTM A350 Gr. LF2+ 75 microns ENP	
7.3	Bung (Screwed)	ASTM A350 Gr. LF2	
7.4	Stem (No Casting)	SS316 (No Casting) /ASTM A350 Gr. LF2	
7.5	Gland	ASTM A350 Gr. LF2	
7.6	Gland Packing	Graphite/ PTFE	
7.7	Gasket	N.A.	
7.8	Body Studs/Nuts	N.A.	

9.0 Location : Above Ground ☒ Buried ☐

10.0 Stem Extension Requirement : Yes ☐ No ☒

11.0 Gear Operator Requirement : Yes ☐ No ☒

12.0 Gas Powered Actuator Requirement : Yes ☐ No ☒

13.0 Fire Resistant Design Requirement : **Type-Test as per Standard API 607/BS EN: 10497**

14.1	Hydrostatic Test	Body	Test Pressure (min.), kg/cm2(g)	Minimum Duration, minutes
			210	2
14.2	Air Test	Seat	155	2
			5.6 - 7	15

15.1 Surface preparation by Short Blasting as per grade SA 2 1/2, Swedish Standard SIS-055 909.

15.2 For above ground installation-Three coats of corrosion resistant paint shall be applied with minimum thickness of 300 micron (Permissible thickness in each coat shall be within 80 to 120 micron). Colour of paint shade shall be RAL-7038, however any change in colour shall be finalized during drawing approval stage.

16. Lock Open/Lock Close Requirement: **As indicated in P&ID / Schedule of Rates (SOR)**

1. Valves shall have an inherent feature using the line pressure to ensure that the line pressure cannot cause taper locking of the plug/ plug movement into the taper, i.e., valves shall be of "pressure-balanced design".
2. Painting procedure of valves shall be as per Manufacturer's standard.
3. Material test certificates and hydrostatic test reports shall be furnished prior to despatch.
4. Charpy V-notch test for body, plug, stem & studs/nuts will be conducted as per relevant material code.
5. Detailed dimensional drawings showing cross-section with part numbers and materials shall be submitted for Purchaser's approval prior to manufacture of the valves.
6. Valves shall have valve position indicator.
7. Stops shall be provided to ensure positive alignment of plug with ports and ensure proper installation of handle.
8. Each valve shall be provided with a wrench.
9. Valves shall be inspected and approved by Purchaser before despatch.
10. Gland packing assembly shall permit repair of gland packing under full line pressure.
11. Inspection and Testing shall be done as per data sheet, specification & BS:12266 (Part-I).
12. Minimum all pressure containing and controlling parts of the valve shall be provided with EN 10204-3.2 certificate.
13. Attached generic QAP shall be admitted for approval after making necessary changes considering 3.2 certification aspect.
14. Minimum port area for regular pattern shall be 55%.
15. Bidder shall clearly write valves material (equivalent or superior) offered by them against each part/material of the valve in the space provided for. Wherever bidder agrees with valves material as mentioned above in Mecon's datasheet, bidder shall clearly indicate **"Agreed"**.

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DATA SHEET FOR LOW TEMPERATURE SERVICE PLUG VALVE

1.0 Valve Manufacturer :

2.0 Valve Size DN (inch): DN50 (2") ANSI Rating : 600# Design Standard : API 6D

3.0 MECON's Technical Specification No.: MEC/TS/05/62/003, Rev-2

4.0 Connecting Pipeline Design Pressure, bar(g): 92 Design Temperature, °C : -46°C to 65°C

5.0 Connecting Pipe Specification

5.1 Material :	N.A.
5.2 Diameter (OD), mm :	N.A.
5.3 Thickness, mm :	N.A.

6.0 Valve Construction Design

6.1. Pattern : Short ☐ Regular ☒ Venturi ☐

6.2. End Connections : Flanged both ends ☒ Flanged as per ASME B 16.5
 : Butt Weld both ends ☐ Butt Weld as per ASME B16.25
 : Flanged one end, butt weld other end ☐
 : Socket weld both ends ☐ Socket Weld as per ASME B16.11

6.3. Flanges : a) RF ☒ FF ☐ RTJ ☐ NA ☐
 b) Serrated ☐ Smooth (125 to 200 microinches AARH) ☒ NA ☐

7.0 Valve Material Specification

	Part	Material	Material Offered (Equivalent or Superior)
7.1	Body	A 352 Gr. LCB/A 350 Gr. LF2	
7.2	Plug	(SS316/ A 352 Gr.LCB/A 350 Gr. LF2) with 75 µENP coating	
7.3	Cover	ASTM A350 Gr. LF2/ A352 Gr. LCB	
7.4	Stem	SS 316 (No casting) / A 350 Gr. LF2	
7.5	Stem Seal	PTFE/Graphite	
7.6	Stud Bolts/ Nuts	ASTM A320 Gr.L7 / ASTM A194 Gr.4	

8.0 Corrosion Allowance : 1.5 mm Service : Natural Gas

9.0 Location : Above Ground ☒ Buried ☐

10.0 Stem Extension Requirement : Yes ☐ No ☒

11.0 Gear Operator Requirement : Yes ☐ No ☒

12.0 Actuator Requirement : Yes ☐ No ☒

13.0 Fire Resistant Design Requirement : Type-Test as per Standard API 6FA/ API 607

14.0 Valve Testing Requirement

14.1	Hydrostatic Test	Min. Test Pressure kg/cm2(g)	Minimum Duration, minutes
	Body	155	As per API 6D
	Seat	114	As per API 6D
14.2	Air Test	5.6 - 7	As per API 6D

15.0 Valve Painting Specification

15.1 Surface preparation by Short Blasting as per grade SA 2 1/2, Swedish Standard SIS-055 909.

15.2 For above ground installation-Three coats of corrosion resistant paint shall be applied with minimum thickness of 300 micron (Permissible thickness in each coat shall be within 80 to 120 micron). Colour of paint shade shall be RAL-7038, however any change in colour shall be finalized during drawing approval stage.

16.0 Lock Open/ Lock Close Requirement : N.A.

Notes:

- This Valve Data Sheet shall be read in conjunction with MECON's Technical Specification No. MEC/TS/05/62/003, Rev2
- Inspection and Testing shall be as per attached QAP, this Data Sheet, MECON's T.S., API 6D and other relevant standards.
- Stops shall be provided for positive alignment of plug with ports and ensure proper installation of handle.
- Charpy V- notch & Hardness test for body, plug, cover, stem & studs/nuts shall be conducted as per Clause No.: 3.4 & 3.5 of TS respectively. Charpy test shall be performed at -46°C and acceptance shall be as per individual material specification.
- Compressed asbestos fibre (CAF) shall not be used for body sealing / gasket materials.
- Minimum all pressure containing and controlling parts of the valve shall be provided with EN 10204-3.2 certificate.
- For welding end, the out of roundness (i. e. difference between maximum and minimum ID at pipe end) shall not be more than 0.5% of pipe OD. N.A.
- Bidder shall clearly write valves material (equivalent or superior) offered by them against each part/material of valve in the space provided for. Wherever bidder agrees with valves material as mentioned above in MECON's data sheet, bidder shall clearly indicate "AGREED".

REV. NO.	DATE	ZONE	DESCRIPTIONS		BY	APPRD	REFERENCES		DRG. NO.	
REVISIONS										
SECTION PROCESS & PIPING					CLIENT : INDRADHANUSH GAS GRID LIMITED					
					SUPPLIER :					
DSGN Sachin 22.11.19 Harsh Kumar 22.11.19					PROJECT: NORTH EAST GAS GRID					
DRWN					PIPELINE PROJECT					
APPROVED ANIL KUMAR,DGM					DATA SHEET FOR PLUG VALVES (NB ≥ 2")				DATA SHEET NO.: MEC/23UU/05/28/M/001/DS/PPV/80	REV 0

DATA SHEET FOR LOW TEMPERATURE SERVICE PLUG VALVE

1.0 Valve Manufacturer :

2.0 Valve Size DN (inch): DN50 (2") ANSI Rating : 600# Design Standard : API 6D

3.0 MECON's Technical Specification No.: MEC/TS/05/62/003, Rev-2

4.0 Connecting Pipeline Design Pressure, bar(g): 92 Design Temperature, °C : -46°C to 65°C

5.0 Connecting Pipe Specification

5.1 Material :	A333 Gr. 6
5.2 Diameter (OD), mm :	60.3
5.3 Thickness, mm :	5.54

6.0 Valve Construction Design

6.1. Pattern : Short ☐ Regular ☒ Venturi ☐

6.2. End Connections : Flanged both ends ☐ Flanged as per ASME B 16.5
 : Butt Weld both ends ☒ Butt Weld as per ASME B16.25
 : Flanged one end, butt weld other end ☐
 : Socket weld both ends ☐ Socket Weld as per ASME B16.11

6.3. Flanges : a) RF ☐ FF ☐ RTJ ☐ NA ☒
 b) Serrated ☐ Smooth (125 to 200 microinches AARH) ☐ NA ☒

7.0 Valve Material Specification

	Part	Material	Material Offered (Equivalent or Superior)
7.1	Body	A 352 Gr. LCB/A 350 Gr. LF2	
7.2	Plug	(SS316/ A 352 Gr.LCB/A 350 Gr. LF2) with 75 µENP coating	
7.3	Cover	ASTM A350 Gr. LF2/ A352 Gr. LCB	
7.4	Stem	SS 316 (No casting) / A 350 Gr. LF2	
7.5	Stem Seal	PTFE/Graphite	
7.6	Stud Bolts/ Nuts	ASTM A320 Gr.L7 / ASTM A194 Gr.4	

8.0 Corrosion Allowance : 1.5 mm Service : Natural Gas

9.0 Location : Above Ground ☒ Buried ☐

10.0 Stem Extension Requirement : Yes ☐ No ☒

11.0 Gear Operator Requirement : Yes ☐ No ☒

12.0 Actuator Requirement : Yes ☐ No ☒

13.0 Fire Resistant Design Requirement : Type-Test as per Standard API 6FA/ API 607

14.0 Valve Testing Requirement

14.1	Hydrostatic Test	Min. Test Pressure kg/cm2(g)	Minimum Duration, minutes
	Body	155	As per API 6D
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14.2	Air Test	5.6 - 7	As per API 6D

15.0 Valve Painting Specification

15.1 Surface preparation by Short Blasting as per grade SA 2 1/2, Swedish Standard SIS-055 909.

15.2 For above ground installation-Three coats of corrosion resistant paint shall be applied with minimum thickness of 300 micron (Permissible thickness in each coat shall be within 80 to 120 micron). Colour of paint shade shall be RAL-7038, however any change in colour shall be finalized during drawing approval stage.

16.0 Lock Open/ Lock Close Requirement : N.A.

Notes:

- This Valve Data Sheet shall be read in conjunction with MECON's Technical Specification No. MEC/TS/05/62/003, Rev2
- Inspection and Testing shall be as per attached QAP, this Data Sheet, MECON's T.S., API 6D and other relevant standards.
- Stops shall be provided for positive alignment of plug with ports and ensure proper installation of handle.
- Charpy V- notch & Hardness test for body, plug, cover, stem & studs/nuts shall be conducted as per Clause No.: 3.4 & 3.5 of TS respectively. Charpy test shall be performed at -46°C and acceptance shall be as per individual material specification.
- Compressed asbestos fibre (CAF) shall not be used for body sealing / gasket materials.
- Minimum all pressure containing and controlling parts of the valve shall be provided with EN 10204-3.2 certificate.
- For welding end, the out of roundness (i. e. difference between maximum and minimum ID at pipe end) shall not be more than 0.5% of pipe OD. N.A.
- Bidder shall clearly write valves material (equivalent or superior) offered by them against each part/material of valve in the space provided for. Wherever bidder agrees with valves material as mentioned above in MECON's data sheet, bidder shall clearly indicate "AGREED".

REV. NO.	DATE	ZONE	DESCRIPTIONS		BY	APPRD	REFERENCES		DRG. NO.
REVISIONS									
SECTION PROCESS & PIPING					CLIENT : INDRADHANUSH GAS GRID LIMITED			 MECON LIMITED	
	NAME	DATE	CHKD	DATE	SUPPLIER :				
DSGN	Sachin	22.11.19	Harsh Kumar	22.11.19	PROJECT: NORTH EAST GAS GRID				
DRWN					PIPELINE PROJECT				
DATA SHEET FOR PLUG VALVES (NB ≥ 2")					DATA SHEET NO.: MEC/23UU/05/28/M/001/DS/PV/81				
APPROVED ANIL KUMAR,DGM								REV 0	

ADDITIONAL NOTES FOR SUPPLY OF VALVES



OIL & GAS SBU, DELHI

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Following notes, in addition to respective Technical Specification shall be taken care while purchasing valves.

- 1.0 Compliance with Specification:** The Main Contractor & their Vendors shall be completely responsible for the design, materials, manufacture & fabrication, testing, inspection, preparation for shipment and transport of the above equipment strictly in accordance with all the relevant document enclosed in tender. Minimum all pressure containing and pressure controlling parts of Valves and Actuators shall be provided with EN 10204-3.2 certificates.
- 2.0 Scope of Work:** Scope of work includes the equipment with all internals and accessories shown on the datasheets, specifications and all unmentioned parts necessary for a satisfactory operation and testing, except those which are indicated to be out of the vendor's supply.
- 3.0 Inspection:** Main Contractor shall appoint the TPIA for inspection purpose in a manner described hereunder-
"The Successful Contractor shall propose minimum four (4) nos. of TPIA's from the below listed TPIA's within four (4) weeks from date of FOA. IGGL/MECON shall approve any one TPIA out of the four (4) nos. proposed TPIA's. The Successful Contractor shall appoint the same approved TPIA for inspection purpose."

a) Lloyd Register of Industrial Services
b) Technische Ulierwachungs Verein(TUV)
c) Det Norske Veritas (DNV)
d) AB-Vincotte
e) Bureau Veritas
f) SGS
g) American Bureau Services
h) Velosi Certification Services
i) Certification Engineers International Limited(CEIL)

Apart from inspection by TPIA & Main Contractor, inspection may also be performed by MECON / IGGL's delegate any time during fabrication and testing of valves.

- 4.0** Valve Vendor shall establish the equivalence/superiority of any material proposed (With justification of material properties and availability) other than that specified in Datasheet. Vendor shall also indicate the ASTM equivalent of his proposed material as well as of all the AISI designated materials specified in datasheets.

ADDITIONAL NOTES FOR SUPPLY OF VALVES



OIL & GAS SBU, DELHI

Page 2 of 5

5.0 Valve Vendors to note that for minimum inspection and testing requirement of the valves shall be governed by attached QAP. However, Valve vendor shall submit their own QAP for approval covering the requirement specified in attached QAP.

6.0 In the event of Conflict/inconsistency among the documents attached/ referred, the following order of precedence generally shall govern in interpretation of various requirements / data.

- Schedule of Rates
- Additional Notes to Valves
- Datasheets
- Technical Specification
- Codes and Standards
- Vendor's Standards

However, Owner/Consultant reserves the right to consider most stringent requirement among the document attached / referred.

7.0 DOCUMENTS & DATA REQUIREMENTS

7.1 The table hereunder specifies the quantities and the nature of the documents to be submitted by the Package Contractor to Purchaser.

7.1.1 The documents required at the inquiry stage and to be included in the bid are listed under column A.- **Not applicable**

7.1.2 The documents required after award of the Contract and subject to the written approval of the Purchaser are listed under column B.

7.1.3 The final and certified documents are listed under column C.

2.2 All document shall bear the Purchaser's Project reference, the Package no. and the identification number.

7.3 THE DOCUMENTS ARE FULLY PART OF THE SUPPLY WHICH SHALL BE COMPLETE ONLY IF AND WHEN THE DOCUMENTS COMPLYING FULLY WITH THE TENDER REQUIREMENTS ARE RECEIVED BY THE PURCHASER.

ADDITIONAL NOTES FOR SUPPLY OF VALVES



OIL & GAS SBU, DELHI

Page 3 of 5

Item	Documents & Data	A(N.A.)	B		C	
		No. of Copies	No. of Copies	Required Date (from FOI/FOA)	No. of Copies	Required Date (before Despatch)
1.	Completed Data Sheets	3	6	4 Weeks	6	2 Weeks (with final technical file)
2.	Drawing / Data Submittal list / schedule	-	6	4 Weeks + monthly	6	2 Weeks
3.	Fabrication, test and delivery schedule (per item)	3	6	4 Weeks + monthly	6	2 Weeks
4.	Fire Safe certificate as per API 6FA & API 607 as applicable	3	6	4 Weeks	-	-
5.	Progress Report	-	6	4 Weeks + monthly	6	2 Weeks
6.	Catalogues / References	3	3	4 Weeks	3	With final technical file
7.	GA drawings + Sectional drawings + Material specification + Unit weight. (all above per valve and actuator)	3	6	4 Weeks	6	With final technical file
8.	Design calculations for pressure containing parts	-	6	4 Weeks	6	2 Weeks (with final technical file)
9.	Welding details for the pups(if required).	-	6	4 Weeks	6	2 Weeks (with final technical file)
10.	Torque curves + Torque calculations(if applicable)	3	6	4 Weeks	6	2 Weeks (with final technical file)
11.	Bill of materials (on drawings)	-	6	4 Weeks	6	2 Weeks (with final technical file)
12.	Welding procedure specification and records WPS / PQR	-	6	4 Weeks	6	2 Weeks (with final technical file)
13.	QA / QC program	3	6	4 Weeks	6	2 Weeks (with final technical file)

ADDITIONAL NOTES FOR SUPPLY OF VALVES



OIL & GAS SBU, DELHI

Page 4 of 5

Item	Documents & Data	A(N.A.)	B		C	
		No. of Copies	No. of Copies	Required Date (from FOI/FOA)	No. of Copies	Required Date (before Despatch)
14.	Inspection and Test Procedures alongwith Quality Assurance Plan	3	6	4 Weeks	6	2 Weeks (with final technical file)
15.	Test Reports	-	-	-	6	2 Weeks (with final technical file)
16.	NDE / NDT Reports	-	-	-	6	2 Weeks (with final technical file)
17.	Heat Treatment Reports	-	-	-	6	2 Weeks (with final technical file)
18.	Hydrotest and air test report	-	-	-	6	2 Weeks (with final technical file)
19.	Maintenance and operating manuals	-	-	-	6	2 Weeks (with final technical file)
20.	Installation instructions & Site inspection procedure	-	-	-	6	2 Weeks (with final technical file)
21.	Material certificate as per EN 10204 - 3.2	-	-	-	6	2 Weeks (with final technical file)
22.	Painting system description & procedure	3	6	4 weeks	6	2 Weeks (with final technical file)
23.	Instrument data sheets (if applicable)	3	6	4 weeks	6	2 Weeks (with final technical file)
24.	Wiring diagrams (if applicable)	3	6	4 weeks	6	2 Weeks (with final technical file)
25.	CENELEC / Statutory certificates for electrical instruments in hazardous locations (if applicable).	-	6	4 weeks	6	2 Weeks (with final technical file)
26.	Final technical file, preliminary copy for approval (in soft & hardcopy)	-	3	2 weeks before shipping	-	-

ADDITIONAL NOTES FOR SUPPLY OF VALVES



OIL & GAS SBU, DELHI

Page 5 of 5

Item	Documents & Data	A(N.A.)	B		C	
		No. of Copies	No. of Copies	Required Date (from FOI/FOA)	No. of Copies	Required Date (before Despatch)
27.	Final technical file (in soft & hardcopy)	-	-	-	6	Before shipping

NOTES

- 1) In case of e-bids, only single copy of documents / drawings / data under column A need be uploaded- **Not Applicable**
- 2) Durations in column B (required date) are weeks after FOI or as indicated in Table.

Durations in column C (required date) are weeks after document approval or as indicated in Table.

Due date of each document may be proposed.
- 3) Final technical file shall be supplied in hard copy as indicated and in electronic format (.pdf Acrobat files) on six (6) CD-ROMs.

	OIL & GAS SBU	LAST MILE CONNECTIVITY WORK INSIDE NRL UNDER GUWAHATI- NUMALIGARH PIPELINE (SECTION-1) FOR NORTH EAST GAS GRID (NEGG) PIPELINE PROJECT	 MECON LTD, DELHI
TITLE	APPENDIX TO PJS	Pipeline & Piping Works	

12.0 QAPs AND ITPs FOR BOUGHT-OUT ITEMS
(Appendix-II to Particular Job Specification of Work)

	OIL & GAS SBU	LAST MILE CONNECTIVITY WORK INSIDE NRL UNDER GUWAHATI- NUMALIGARH PIPELINE (SECTION-1) FOR NORTH EAST GAS GRID (NEGG) PIPELINE PROJECT	 MECON LTD, DELHI
TITLE	APPENDIX TO PJS	Pipeline & Piping Works	

QAPs AND ITPs FOR MECHANICAL ITEMS

CONTENTS

A. QAPs

- I. Flanges
- II. Fittings
- III. Assorted Pipes
- IV. Valves

B. ITPs

- I. Assorted Pipes



MECON Limited
(A Govt. of India Enterprise)

**QUALITY ASSURANCE PLAN
FOR
FLANGES**

**PROJECT: NEGGL
PACKAGE NO. : 05/51/23UU/IGGL/026
PACKAGE NAME : FLANGES & FITTINGS
QAP NO.: MEC/23UU/05/21/M/001/S026/QAP/A**

Page 1 of 4

**QUALITY ASSURANCE PLAN
FOR
FLANGES**



MECON Limited
(A Govt. of India Enterprise)

QUALITY ASSURANCE PLAN FOR FLANGES

PROJECT: NEGGL
PACKAGE NO. : 05/51/23UU/IGGL/026
PACKAGE NAME : FLANGES & FITTINGS
QAP NO.: MEC/23UU/05/21/M/001/S026/QAP/A

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APPLICABLE CODES AND SPECIFICATIONS : MEC/TS/05/21/025, R-0 WITH AMENDMENTS									SCOPE OF INSPECTION		
S. NO.	STAGE	CHARACTERISTICS	CATEGORY	METHOD OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENTS	ACCEPTANCE NORMS	RECORD	Vendor	TPI	MECON/IGGL
1.	Review of PO / Drg.	Review of PO Doc. / Drg.	Critical	Scrutiny / Verification	Each doc. of P.O.	Appl. Spec. / STD	-	-	W	R	R
2.	Raw Material	1. Manufacturing process of steel 2. Visual 3. Dimensional 4. Chemical Composition	Critical	Verification with M.T.C. Spectro Analysis	Each Heat Each Heat	Appl. Material Specification / STD	As per tender document / Material Specification / STD	Material Test Certificate and MI Register	W	R	R
3.	Forgins	1. Reduction Ratio 2. Temperature During Forging 3. Forging Dimensions	Critical	Measurement Optical Pyrometer Measurement	Minimum 1 per size	Standard Manufacturing Procedure	Std. Procedure As per Std. AMSE B16.5	Forging process record / internal Register	W	R	R
4.	Heat Treatment (as applicable)	Heat Treatment Cycle	Major	Verification of Heat Treatment Cycle	Each Heat / HT Lot	As per Tender Doc. / Material Specification / STD	As per Tender Doc. / Material Specification / MECON Std	T.P.M. Sheet, Heat Treatment Graph	W	W	R
5.	Mechanical Testing (as applicable)	1. Tensile Test (TS, YS, RA%, EL%) 2. Hardness 3. Charpy V-Notch Test	Major	Tensile Testing IMPACT Testing	One / HT / Lot / Group	As per Tender Doc. / Material Specification / STD	Std. Procedure As per Tender Doc. / Material Specification / MECON Std	Mechanical Test Report & T.C.	W	W	R



MECON Limited
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QUALITY ASSURANCE PLAN FOR FLANGES

PROJECT: NEGGL
PACKAGE NO. : 05/51/23UU/IGGL/026
PACKAGE NAME : FLANGES & FITTINGS
QAP NO.: MEC/23UU/05/21/M/001/S026/QAP/A

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APPLICABLE CODES AND SPECIFICATIONS : MEC/TS/05/21/025, R-0 WITH AMENDMENTS									SCOPE OF INSPECTION		
S. NO.	STAGE	CHARACTERISTICS	CATEGORY	METHOD OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENTS	ACCEPTANCE NORMS	RECORD	Vendor	TPI	MECON/IGGL
6	NDT	1. DP 2. UT 3. MPI	Major	DP Testing Ultrasonic Flaw Detector MPI Testing	100%	As per Tender Doc. / Material Specification / STD	As per Tender Doc. / Material Specification / MECON Std	Mechanical Test Report & T.C.	W	W	R
7.	Final Inspection	Visual & Dimensions	Major	Visual / Measurement	100%	As per Tender Doc. / Material Specification / STD	As per Tender Doc. / Material Specification / MECON Std	Dimension Report Format	W	W	W/R
8.	Making, Colour Coding, Rust Prevention & Packing	Making, Colour Coding, Rust Prevention & Packing	Major	Visual	100%	As per Tender Doc. / Material Specification / STD	As per Tender Doc. / Material Specification / MECON Std	Packing List	W	W	R
9.	Certification	As per EN 10204 Type 3.2	Major	Verification of PO Spec. & QAP	100%	As per Tender Doc. / Material Specification / STD	As per Tender Doc. / Material Specification / MECON Std	TC & Reports	W	C	R
10.	Release Notes	Inspection Release Note	Major	Verification of PO Spec. & QAP	100%	As per Tender Doc. / Material Specification / STD	As per Tender Doc. / Material Specification / MECON Std	Release Note	H	-	IR



MECON Limited
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QUALITY ASSURANCE PLAN FOR FLANGES

PROJECT: NEGGL
PACKAGE NO. : 05/51/23UU/IGGL/026
PACKAGE NAME : FLANGES & FITTINGS
QAP NO.: MEC/23UU/05/21/M/001/S026/QAP/A

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APPLICABLE CODES AND SPECIFICATIONS : MEC/TS/05/21/025, R-0 WITH AMENDMENTS									SCOPE OF INSPECTION		
S. NO.	STAGE	CHARACTERISTICS	CATEGORY	METHOD OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENTS	ACCEPTANCE NORMS	RECORD	Vendor	TPI	MECON/IGGL
11.	Shipping	Verification of surface coating / type of packing	Major	-	-	As per Tender Doc. / Material Specification / STD	As per Tender Doc. / Material Specification / MECON Std	Shipping documents	H	R	IR
Note : All items shall be provided with EN 10204 Type 3.2 certificate. Legends : H – Hold (Offer for Witness & obtain clearance), W – Witness, R – Review, A – Approval, I – Information, IR – Issue Release Note, C – Certify, X – Submit, PO – Purchase Order, PR – Purchase Requisition, SR – Stress Relieving, MPI – Magnetic Particle Inspection, DI-Dye Penetrant Test , UT – Ultrasonic examination, TS – Technical Specification, WPS – Welding Procedure Specification, PQR – Procedure Qualification Record, WQT – Welder Qualification Test. All the NDT / Leak Testing / Heat Treatment / Special manufacturing procedures have to be specially approved or only previously approved procedures have to be used. In case of conflict between purchase specification, contract documents and ITP more stringent conditions shall be applicable. The document describes generally the requirements pertaining to all types of Flanges. Requirements specific to the item are only applicable.											

For CONTRACTOR/ SUB-CONTRACTOR

(Stamp & Signature)



MECON Limited
(A Govt. of India Enterprise)

**QUALITY ASSURANCE PLAN
FOR
FITTINGS**

**PROJECT: NEGGL
PACKAGE NO. : 05/51/23UU/IGGL/026
PACKAGE NAME : FLANGES & FITTINGS
QAP NO.: MEC/23UU/05/21/M/001/S026/QAP/B**

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**QUALITY ASSURANCE PLAN
FOR
FITTINGS**



MECON Limited
(A Govt. of India Enterprise)

QUALITY ASSURANCE PLAN FOR FITTINGS

PROJECT: NEGGL
PACKAGE NO. : 05/51/23UU/IGGL/026
PACKAGE NAME : FLANGES & FITTINGS
QAP NO.: MEC/23UU/05/21/M/001/S026/QAP/B

Page 2 of 4

APPLICABLE CODES AND SPECIFICATIONS : MEC/TS/05/21/025, R-0 WITH AMENDMENTS									SCOPE OF INSPECTION		
S. NO.	STAGE	COMPONENT	CHARACTERISTICS	METHOD OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENTS	ACCEPTANCE NORMS	RECORD	Vendor	TPI	MECON/IGGL
1.	Material	FITTINGS	Fully killed steel	MTC	100%	PO & Std. Spec.	PO QAP & Std. Spec.	MTC	W	R	R
2.	Inspection	FITTINGS									
i)	Visual Inspection	FITTINGS	Visual Imp.	Visual Internal & External Surface	100%			Inspection Report	W	W	R
ii)	NDT	FITTINGS	Soundness of Tee & Butt Welds	UT, RT & MPI	100%	PO & Std. Spec.	PO QAP & Std. Spec.	Inspection Report	W	W & Evaluation of RT Films	R
iii)	NDT	FITTINGS	Forgings	WET MPI	100%	PO & Std. Spec.	To comply with MSS-SP-53	Inspection Report	W	W	R
iv)	NDT	FITTINGS	End Laminations	UT for Distance of 25 mm on ends.	100%	PO & Std. Spec.	Any lamination than 6.35 mm not accepted	Inspection Report	W	W	R
v)	Testing Destructive	FITTINGS	Properties of Mech. / Chemical & Impact Test	Chemical by Spectro and other test as per ASTM A - 370	As per Heat / Lot	PO & Spec.	MSS-SP-75	IMP Lab Report	W	W	R



MECON Limited
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**QUALITY ASSURANCE PLAN
FOR
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PROJECT: NEGGL
PACKAGE NO. : 05/51/23UU/IGGL/026
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QAP NO.: MEC/23UU/05/21/M/001/S026/QAP/B

Page 3 of 4

APPLICABLE CODES AND SPECIFICATIONS : MEC/TS/05/21/025, R-0 WITH AMENDMENTS									SCOPE OF INSPECTION		
S. NO.	STAGE	COMPONENT	CHARACTERISTICS	METHOD OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENTS	ACCEPTANCE NORMS	RECORD	Vendor	TPI	MECON/IGGL
3.	Final Inspection	FITTINGS	Dimensional	-	As per lot	PO & Spec.	PO & Spec.	Inspection Report	W	W	W/R
4.	Marking	FITTINGS	Identification manufacturer's Name, nominal diameter end thickness malts & Tag No.	By painting	100%	PO & Spec.	-	-	W	W	W/R
5.	Certification	FITTINGS	As per EN 10204 Type 3.2	Verification of PO Spec. & QAP	100%	As per Tender Doc. / Material Specification / STD	As per Tender Doc. / Material Specification / MECON Std	TC & Reports	W	C	R
6.	Release Notes	FITTINGS	Inspection Release Note	Verification of PO Spec. & QAP	100%	As per Tender Doc. / Material Specification / STD	As per Tender Doc. / Material Specification / MECON Std	Release Note	H	-	IR



MECON Limited
(A Govt. of India Enterprise)

QUALITY ASSURANCE PLAN FOR FITTINGS

PROJECT: NEGGL
PACKAGE NO. : 05/51/23UU/IGGL/026
PACKAGE NAME : FLANGES & FITTINGS
QAP NO.: MEC/23UU/05/21/M/001/S026/QAP/B

Page 4 of 4

APPLICABLE CODES AND SPECIFICATIONS : MEC/TS/05/21/025, R-0 WITH AMENDMENTS									SCOPE OF INSPECTION		
S. NO.	STAGE	COMPONENT	CHARACTERISTICS	METHOD OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENTS	ACCEPTANCE NORMS	RECORD	Vendor	TPI	MECON/IGGL
7.	Shipping	FITTINGS	Verification of surface coating / type of packing	-	-	As per Tender Doc. / Material Specification / STD	As per Tender Doc. / Material Specification / MECON Std	Shipping documents	H	R	R
Note : All items shall be provided with EN 10204 Type 3.2 certificate. Legends : H – Hold (Offer for Witness & obtain clearance), W – Witness, R – Review, A – Approval, I – Information, IR – Issue Release Note, C – Certify, X – Submit, PO – Purchase Order, PR – Purchase Requisition, N-Normalizing, N&T – Normalizing & Tempering, SA – Solution annealing, N & SR – Normalizing & Stress relieving. All the NDT / Leak Testing / Heat Treatment / Special manufacturing procedures have to be specially approved or only previously approved procedures have to be used. In case of conflict between purchase specification, contract documents and ITP more stringent conditions shall be applicable. The document describes generally the requirements pertaining to all types of Fittings. Requirements specific to the item are only applicable.											

For CONTRACTOR/ SUB-CONTRACTOR

(Stamp & Signature)

	CONTRACTOR		QUALITY ASSURANCE PLAN FOR STRUCTURAL AND MECHANICAL EQUIPMENT				PROJECT : NEGGL																												
	ORDER NO. & DATE																																		
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Sl. No.	Description (with equipment heading, place of use and brief specifications)		Identification No. (MR Item No.)	Quantity No./M	Unit Weight (Kg)	Manufacturer's Name and Address		Expected Schedule of Final Inspn.	Raw Material and In-Process Stage Inspection			Final Inspection/ Test by																							
1			3	4	5	6		7	MFR/SPLR		TPI	MFR/SPLR		TPI	14	15	16																		
1.0	Assorted Pipes			As per MR					1,2,4,5,35,41		1,2,4,5,41	1,2,14,35		1,2,14,35	1,2,4,5,32,34,D9	MECON's T.S. & Relevant Standards mentioned therein	100 % inspection by MECON's Approved TPI																		
For MECON (Stamp & Signature)															For CONTRACTOR/ SUB-CONTRACTOR (Stamp & Signature)															QAP NO. MEC/23UU/05/21/M/001/QAP-59A SHEET 1 OF 1		REV			

	CONTRACTOR		QUALITY ASSURANCE PLAN FOR STRUCTURAL AND MECHANICAL EQUIPMENT				PROJECT : NEGLG Project of M/s IGL													
	ORDER NO. & DATE						PACKAGE NO. : 05/51/23U2/GAIL/015													
	SUB-CONTRACTOR						PACKAGE NAME : LR BEND													
	ORDER NO. & DATE						MR NO. : MEC/23UU/05/28/M/001/S015				TS No.: MEC/TS/05/62/015									
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ABBREVIATIONS USED : MFR : MANUFACTURER H : HOLD R : REVIEW W : WITNESS RW : RANDOM WITNESS P : PERFORM							KEY TO SYMBOLS : * : THIRD PARTY INSPECTION AGENCY APPOINTED BY VENDOR # : TEST TO BE PERFORMED, AS APPLICABLE (UT(6*) - HFW/ERW, RT(8*) - LSAW) ** : Sample shall be drawn from intrados, extrados & transition zone of Bend ## : Test ring shall be removed from the centre of the Bend & Transition Zone and test sample shall be drawn from each quadrant during MPQT (Hardness Test for each bend shall be carried out at extrados & intrados of each bend with the help of portable hardness tester)													
EQUIPMENT DETAILS							INSPECTION AND TESTS						Test Certificates & Documents to be submitted to MECON	Acceptance Criteria Standards/ IS/ BS/ ASME/ Norms and Documents	REMARKS/ SAMPLING PLAN					
Sl. No.	Description (with equipment heading, place of use and brief specifications)	Identification No. (MR Item No.)	Quantity No./M	Unit Weight (Kg)	Manufacturer's Name and Address	Expected Schedule of Final Inspn.	Manufacturing Procedure Qualification Test (MPQT)			Final Inspection/ Test by										
							MFR	TPIA*	CLIENT/MECON	MFR	TPIA*	CLIENT/MECON								
							P	W	W	P	W	RW								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16					
1.0	LR BEND		As per MR/SOR				1, 2, 4**, 5, 6#, 7, 8#, 10, 15, 35##, 41, 47, 51, 52, 53	1, 2, 4**, 5, 6#, 7, 8#, 10, 15, 35##, 41, 47, 51, 52, 53	1, 2, 4**, 5, 6#, 7, 8#, 10, 15, 35##, 41, 47, 51, 52, 53	1, 2, 6#, 7, 8#, 35, 51	1, 2, 6#, 7, 8#, 35, 51	1, 2, 6#, 7, 8#, 35, 51	1, 2, 4, 5, 6#, 7, 8#, 15, 35, 41, 47, 51, 52, 53, D9, D10	D1, D2, MECON's Tech. Spec., Data Sheets & Relevant Standards	100% (As per Technical Specification & Data Sheets of LR Bends)					
Special considerations for Bending Parameters during production with respect to MPQT: 1) Forming Temperature shall not vary more than $\pm 25^{\circ}\text{C}$. 2) Forming velocity shall not vary more than ± 2.5 mm/minute 3) Temperature of cooling water shall not vary more than $\pm 15^{\circ}\text{C}$. 4) Flow rate of cooling water shall not vary more than $\pm 10\%$. 5) Induction Heating frequency shall vary more than $\pm 20\%$. Any change in above parameters shall be cause for rejection of that Bend and the cost towards the pipe used for fabrication of that rejected Bend shall be recovered from vendor's account with a rate specified elsewhere in the Tender Document.							Notes: 1. Physical , Chemical, Impact & Hardness Test results shall conform to the requirements of Mecon's Technical Specification for Line Pipe. 2. Manufacturer shall submit marking scheme along with the QAP for approval. 3. Bending parameters established during MPQT shall be maintained for regular production of LR Bends. 4. Visual, Dimensional and other parameters shall be complaint to Technical Specification & Data Sheets, MR & Notes to MR of LR Bends. 5. Any indication observed on MPI shall be verified by MUT. 6. Mettalographic Examination shall be performed in line with the requirements of mother Line Pipe. 7. Bends shall be dispatched with both ends provided with metallic bevel protectors. 8. If results of MPQT does not meet the requirements, vendor shall provide justification and remedial measures and reperform MPQT. Repeated failure of MPQT shall be taken up by the purchaser to initiate suitable action. Cost towards using of additional pipe length for reperforming MPQT shall be recovered from vendor's account with a rate specified elsewhere in the Tender Document. 9. The Bend number shall be placed by cold rolling or low stress dot marking on the outside surface of the Bend at an approximate distance of 50 mm from both ends. 10. Bend ends shall be tested by MUT for any lamination at the ends.													
For MECON (Stamp & Signature)							For CONTRACTOR/ SUB-CONTRACTOR (Stamp & Signature)							QAP NO. MEC/23UU/05/21/M/001/QAP-015 SHEET 1 OF 1		REV 0				

	CONTRACTOR		QUALITY ASSURANCE PLAN FOR STRUCTURAL AND MECHANICAL EQUIPMENT				PROJECT : NEGGL																																																																																																																																																												
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	SUB CONTRACTOR						PACKAGE NAME : PIPELINE LAYING WORKS ITEM : BALL & PLUG VALVES																																																																																																																																																												
	ORDER NO. & DATE						TS NO. : MEC/TS/05/21/002 Rev 1,Ed 1, MEC/TS/05/62/003, Rev-2 & Additional Notes to TS for Ball Valves.																																																																																																																																																												
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Code	Description	Code	Description	Code	Description	Code	DOCUMENTS:																																																																																																																																																												
1.	Visual	18.	Amplitude Test	34.	Internal Inspection Report by Contractor	D1.	Approved GA drawings																																																																																																																																																												
2.	Dimensional	19.	Sponge Test	35.	Hardness Test	D2.	Information and other reference drg/ stamped drgs released for mfg.																																																																																																																																																												
3.	Fitment & Alignment	20.	Dust/ Water Ingress Test	36.	Spark Test for Lining	D3.	Relevant catalogues																																																																																																																																																												
4.	Physical Test (Sample)	21.	Friction Factor Test	37.	Calibration	D4.	Bill of matl./Item no./ Identification																																																																																																																																																												
5.	Chemical Test (Sample)	22.	Adhesion Test	38.	Safety Device Test	D5.	Matchmarks details																																																																																																																																																												
6.	Ultrasonic Test	23.	Performance Test/Characteristic Curve	39.	Ease of Maintenance	D6.	Line/ Layout diagram																																																																																																																																																												
7.	Magnetic Particle Test (MPI)	24.	No Load/ Free Running Test	40.	Fire Test (Type Test)	D7.	Approved erection procedures																																																																																																																																																												
8.	Radiography Test	25.	Load/ Overload Test	41.	Charpy V-Notch Test	D8.	Unpriced sub P.O. with specification and amendments, if any																																																																																																																																																												
9.	Dye Penetration Test	26.	Measurement of Speeds	42.	Operational Torque Test	D9.	Calibration Certificate of all measuring instruments and gauges																																																																																																																																																												
10.	Metallographic Exam.	27.	Accoustical Test	43.	ENP (Electroless Nickel Plating) Execution	D10.	X-Ray Reports																																																																																																																																																												
11.	Welder's Qualification & Weld Procedure Test	28.	Geometrical Accuracy	44.	Painting																																																																																																																																																														
12.	Approval of Test and Repair Procedure	29.	Repeatability and Positioning Accuracy	45.	Anti-Static Test																																																																																																																																																														
13.	Heat Treatment	30.	Proving Test	46.	Hydrostatic Double Block & Bleed Test																																																																																																																																																														
14.	Pressure Test	31.	Surface Preparation	47.	Functional Test																																																																																																																																																														
15.	Leakage Test	32.	Manufacturer's Test Certificates for bought-out items	48.	Pneumatic Double Block & Bleed Test																																																																																																																																																														
16.	Balancing	33.	IBR/ Other Statutory agencies compliance certificate	49.	Cyclic Test																																																																																																																																																														
17.	Vibration Test																																																																																																																																																																		
EQUIPMENT DETAILS														INSPECTION AND TESTS				Test Certificates & Documents to be submitted to MECON	Acceptance Criteria Standards/ IS/ BS/ ASME/ Norms and Documents	REMARKS/ SAMPLING PLAN																																																																																																																																															
Sl. No.	Description (with equipment heading, place of use and brief specifications)	Identification No. (MR Item No.)	Quantity No./M	Unit Weight (Kg)	Manufacturer's Name and Address	Expected Schedule of Final Inspn.	Raw Material and In-Process Stage Inspection				Final Inspection/ Test by																																																																																																																																																								
							MFR/SV	TPI	CONTR	MECON	MFR/SV	TPI	CONTR	MECON																																																																																																																																																					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18																																																																																																																																																		
1.0	Ball Valves, Plug Valves & Globe Valves	----	As per SOR/ P&ID	*	*	*	As per attached sheet 2 to 10																																																																																																																																																												
For MECON (Stamp & Signature) 														For CONTRACTOR/ SUB-CONTRACTOR (Stamp & Signature) 				QAP No. : MEC/23UU/05/28/M/001/QAP-002/C&M SHEET 1 OF 10		REV 0																																																																																																																																															

EQUIPMENT DETAILS					INSPECTION AND TESTS								Test Certificates & Documents to be submitted to MECON	Acceptance Criteria Standards/ IS/ BS/ ASME/ Norms and Documents	Inspection Codes & Sampling Plan				REMARKS
Sl. No.	Description (with equipment heading, place of use and brief specifications)	Identification No.	Quantity No./M	Unit Weight (Kg)	Raw Material and In-Process stage inspection				Final Inspection/ Test by						MFR/SV	TPI	CONTR	MECON	
					MFR/SV	TPI	CONTR	MECON	MFR/SV	TPI	CONTR	MECON							
1	2	3	4	5	8	9	10	11	12	13	14	15	16	17	18A	18B	18C	18D	
1.01	Body	Material As per approved Datasheet			1,2	-	-	-	-	-	-	-	1. D1 2. Report	1. D1 2. Relevant Material Standard 3. Manufacturer's Specification	H	R	R	R	
					4	4	-	-	-	-	-	-	Material Test Certificates	1. Relevant Material Standard 2. MECON's D.S.	H	H	R	R	
					5	5	-	-	-	-	-	-	Material Test Certificates	1. Relevant Material Standard 2. MECON's T.S. 3. MECON's D.S.	H	H	R	R	
					6 **	6 **	-	-	-	-	-	-	Test Report	1. ASME B16.34, Appendix-IV 2. MECON's T.S.	H	W	R	R	Forgings, welds, wrought weld ends
					7 **	7 **	-	-	-	-	-	-	Test Report	1. ASME B16.34, Appendix-II 2. MECON's T.S.	H	W	R	R	Wet MPI for 100% of internal surfaces of all castings & forgings & bevel surfaces (MPI/ DP)
					8 **	8 **	-	-	-	-	-	-	Test Report	1. ASME B16.34, Appendix-I 2. MECON's T.S.	H	W	R	R	All castings as per clause 5.1.4 b) of T.S., all welds, weld ends of all cast valves
					9**	9**	-	-	-	-	-	-	Test Report	1. ASME B16.34, Appendix-III 2. MECON's T.S.	H	W	R	R	Bevel Surfaces (by MPI/ DP)
					13	13	-	-	-	-	-	-	Report/ Material Test Certificates	1. Relevant Material Standard	H	R	R	R	
					35	35	-	-	-	-	-	-	Material Test Certificates	1. Relevant Material Standard 2. MECON's T.S. 3. MECON's D.S.	H	H	R	R	
					41	41	-	-	-	-	-	-	Material Test Certificates	1. Relevant Material Standard 2. MECON's T.S. 3. MECON's D.S.	H	H	R	R	

EQUIPMENT DETAILS					INSPECTION AND TESTS								Test Certificates & Documents to be submitted to MECON	Acceptance Criteria Standards/ IS/ BS/ ASME/ Norms and Documents	Inspection Codes & Sampling Plan				REMARKS
Sl. No.	Description (with equipment heading, place of use and brief specifications)	Identification No.	Quantity No./M	Unit Weight (Kg)	Raw Material and In-Process stage inspection				Final Inspection/ Test by						MFR/SV	TPI	CONTR	MECON	
					MFR/SV	TPI	CONTR	MECON	MFR/SV	TPI	CONTR	MECON							
1	2	3	4	5	8	9	10	11	12	13	14	15	16	17	18A	18B	18C	18D	
1.02	Closure/ Body Adapter/ Tail Piece	Material As per approved Datasheet			1,2	-	-	-	-	-	-	-	1. D1 2. Report	1. D1 2. Relevant Material Standard 3. Manufacturer's Specification	H	R	R	R	
					4	4	-	-	-	-	-	-	Material Test Certificates	1. Relevant Material Standard 2. MECON's D.S.	H	H	R	R	
					5	5	-	-	-	-	-	-	Material Test Certificates	1. Relevant Material Standard 2. MECON's T.S. 3. MECON's D.S.	H	H	R	R	
					6**	6**	-	-	-	-	-	-	Test Report	1. ASME B16.34, Appendix-IV 2. MECON's T.S.	H	W	R	R	Forgings, welds, wrought weld ends
					7**	7**	-	-	-	-	-	-	Test Report	1. ASME B16.34, Appendix-II 2. MECON's T.S.	H	W	R	R	Wet MPI for 100% of internal surfaces of all castings & forgings & bevel surfaces (MPI/ DP)
					8**	8**	-	-	-	-	-	-	Test Report	1. ASME B16.34, Appendix-I 2. MECON's T.S.	H	W	R	R	All castings as per clause 5.1.4 b) of T.S., all welds, weld ends of all cast valves
					9**	9**	-	-	-	-	-	-	Test Report	1. ASME B16.34, Appendix-III 2. MECON's T.S.	H	W	R	R	Bevel Surfaces (by MPI/ DP)
					13	13	-	-	-	-	-	-	Report/ Material Test Certificates	1. Relevant Material Standard	H	R	R	R	
					35	35	-	-	-	-	-	-	Material Test Certificates	1. Relevant Material Standard 2. MECON's T.S. 3. MECON's D.S.	H	H	R	R	
					41	41	-	-	-	-	-	-	Material Test Certificates	1. Relevant Material Standard 2. MECON's T.S. 3. MECON's D.S.	H	H	R	R	

EQUIPMENT DETAILS					INSPECTION AND TESTS								Test Certificates & Documents to be submitted to MECON	Acceptance Criteria Standards/ IS/ BS/ ASME/ Norms and Documents	Inspection Codes & Sampling Plan				REMARKS
Sl. No.	Description (with equipment heading, place of use and brief specifications)	Identification No.	Quantity No./M	Unit Weight (Kg)	Raw Material and In-Process stage inspection				Final Inspection/ Test by						MFR/SV	TPI	CONTR	MECON	
					MFR/SV	TPI	CONTR	MECON	MFR/SV	TPI	CONTR	MECON							
1	2	3	4	5	8	9	10	11	12	13	14	15	16	17	18A	18B	18C	18D	
1.03	Top Cover	<u>Material</u> Manufacturer to indicate (to be approved by MECON)			1,2	-	-	-	-	-	-	-	1. D1 2. Report	1. D1 2. Relevant Material Standard 3. Manufacturer's Specification	H	R	R	R	
					4	4	-	-	-	-	-	-	Material Test Certificates	1. Relevant Material Standard 2. MECON's D.S.	H	H	R	R	
					5	5	-	-	-	-	-	-	Material Test Certificates	1. Relevant Material Standard 2. MECON's T.S. 3. MECON's D.S.	H	H	R	R	
					6 **	6 **	-	-	-	-	-	-	Test Report	1. ASME B16.34, Annex-E 2. MECON's T.S.	H	W	R	R	Forgings, welds, wrought weld ends
					7 **	7 **	-	-	-	-	-	-	Test Report	1. ASME B16.34, Annex-C 2. MECON's T.S.	H	W	R	R	Wet MPI for 100% of internal surfaces of all castings & forgings & bevel surfaces (MPI/ DP)
					8 **	8 **	-	-	-	-	-	-	Test Report	1. ASME B16.34 Annex-B 2. MECON's T.S.	H	W	R	R	All castings as per clause 5.1.4 b) of T.S., all welds, weld ends of all cast valves
					13	13	-	-	-	-	-	-	Report/ Material Test Certificates	1. Relevant Material Standard	R	R	R	R	
					35	35	-	-	-	-	-	-	Material Test Certificates	1. Relevant Material Standard 2. MECON's T.S. 3. MECON's D.S.	H	H	R	R	
					41	41	-	-	-	-	-	-	Material Test Certificates	1. Relevant Material Standard 2. MECON's T.S. 3. MECON's D.S.	R	H	R	R	

EQUIPMENT DETAILS					INSPECTION AND TESTS								Test Certificates & Documents to be submitted to MECON	Acceptance Criteria Standards/ IS/ BS/ ASME/ Norms and Documents	Inspection Codes & Sampling Plan				REMARKS
Sl. No.	Description (with equipment heading, place of use and brief specifications)	Identification No.	Quantity No./M	Unit Weight (Kg)	Raw Material and In-Process stage inspection				Final Inspection/ Test by						MFR/SV	TPI	CONTR	MECON	
					MFR/SV	TPI	CONTR	MECON	MFR/SV	TPI	CONTR	MECON							
1	2	3	4	5	8	9	10	11	12	13	14	15	16	17	18A	18B	18C	18D	
1.04	Trunnion (for Trunnion Mounted Valves)	<u>Material</u> Manufacturer to indicate (to be approved by MECON)			1,2	1,2	-	-	-	-	-	-	1. D1 2. Report	1. D1 2. Relevant Material Standard 3. Manufacturer's Specification	H	R	R	R	
					4	4	-	-	-	-	-	-	Material Test Certificates	1. Relevant Material Standard 2. MECON's D.S.	H	H	R	R	
					5	5	-	-	-	-	-	-	Material Test Certificates	1. Relevant Material Standard 2. MECON's T.S. 3. MECON's D.S.	H	H	R	R	
					13	13	-	-	-	-	-	-	Report/ Material Test Certificates	1. Relevant Material Standard	H	R	R	R	
					43 **	43 **	-	-	-	-	-	-	1. Test Report 2. Material Test Certificates for composition, hardness, thickness & integrity	1. MECON's T.S. 2. MECON's D.S. 3. ASTM B733 Std. 4. Manufacturer's Specification	H	H	R	R	
1.05	Ball / Plug / Disc	<u>Material</u> As per approved Datasheet			1,2	1,2	-	-	-	-	-	-	1. D1 2. Report	1. D1 2. Relevant Material Standard 3. Manufacturer's Specification	H	R	R	R	
					4	4	-	-	-	-	-	-	Material Test Certificates	1. Relevant Material Standard 2. MECON's D.S.	H	H	R	R	
					5	5	-	-	-	-	-	-	Material Test Certificates	1. Relevant Material Standard 2. MECON's T.S. 3. MECON's D.S.	H	H	R	R	
					6**	6**	-	-	-	-	-	-	Test Report	1. ASME B16.34, Appendix-IV 2. MECON's T.S.	H	W	R	R	Forgings, welds, wrought weld ends
					7**	7**	-	-	-	-	-	-	Test Report	1. ASME B16.34, Appendix-II 2. MECON's T.S.	H	W	R	R	Wet MPI for 100% of internal surfaces of all castings & forgings & bevel surfaces (MPI/ DP)
					8**	8**	-	-	-	-	-	-	Test Report	1. ASME B16.34, Appendix-I 2. MECON's T.S.	H	W	R	R	All castings as per clause 5.1.4 b) of T.S., all welds, weld ends of all cast valves

EQUIPMENT DETAILS					INSPECTION AND TESTS								Test Certificates & Documents to be submitted to MECON	Acceptance Criteria Standards/ IS/ BS/ ASME/ Norms and Documents	Inspection Codes & Sampling Plan				REMARKS
Sl. No.	Description (with equipment heading, place of use and brief specifications)	Identification No.	Quantity No./M	Unit Weight (Kg)	Raw Material and In-Process stage inspection				Final Inspection/ Test by						MFR/SV	TPI	CONTR	MECON	
					MFR/SV	TPI	CONTR	MECON	MFR/SV	TPI	CONTR	MECON							
1	2	3	4	5	8	9	10	11	12	13	14	15	16	17	18A	18B	18C	18D	
					9**	9**	-	-	-	-	-	-	Test Report	1. ASME B16.34, Appendix-III 2. MECON's T.S.	H	W	R	R	Bevel Surfaces (by MPI/ DP)
					13	13	-	-	-	-	-	-	Report/ Material Test Certificates	1. Relevant Material Standard	H	R	R	R	
					35	35	-	-	-	-	-	-	Material Test Certificates	1. Relevant Material Standard 2. MECON's T.S. 3. MECON's D.S.	H	H	R	R	
					41	41	-	-	-	-	-	-	Material Test Certificates	1. Relevant Material Standard 2. MECON's T.S. 3. MECON's D.S.	H	H	R	R	
					43	43	-	-	-	-	-	-	1. Test Report 2. Material Test Certificates for composition, hardness, thickness & integrity	1. MECON's T.S. 2. MECON's D.S. 3. ASTM B733 Std. 4. Manufacturer's Specification	H	H	R	R	
1.06	Stem	Material As per approved Datasheet			1,2	1,2	-	-	-	-	-	-	1. D1 2. Report	1. D1 2. Relevant Material Standard 3. Manufacturer's Specification	H	R	R	R	
					4	4	-	-	-	-	-	-	Material Test Certificates	1. Relevant Material Standard 2. MECON's D.S.	H	H	R	R	
					5	5	-	-	-	-	-	-	Material Test Certificates	1. Relevant Material Standard 2. MECON's T.S. 3. MECON's D.S.	H	H	R	R	
					6**	6**	-	-	-	-	-	-	Test Report	1. ASME B16.34, Appendix-IV 2. MECON's T.S.	H	W	R	R	Forgings, welds, wrought weld ends
					7**	7**	-	-	-	-	-	-	Test Report	1. ASME B16.34, Appendix-II 2. MECON's T.S.	H	W	R	R	Wet MPI for 100% of internal surfaces of all castings & forgings & bevel surfaces (MPI/ DP)
					8**	8**	-	-	-	-	-	-	Test Report	1. ASME B16.34, Appendix-I 2. MECON's T.S.	H	W	R	R	All castings as per clause 5.1.4 b) of T.S., all welds, weld ends of all cast valves

EQUIPMENT DETAILS					INSPECTION AND TESTS								Test Certificates & Documents to be submitted to MECON	Acceptance Criteria Standards/ IS/ BS/ ASME/ Norms and Documents	Inspection Codes & Sampling Plan				REMARKS
Sl. No.	Description (with equipment heading, place of use and brief specifications)	Identification No.	Quantity No./M	Unit Weight (Kg)	Raw Material and In-Process stage inspection				Final Inspection/ Test by						MFR/SV	TPI	CONTR	MECON	
					MFR/SV	TPI	CONTR	MECON	MFR/SV	TPI	CONTR	MECON							
1	2	3	4	5	8	9	10	11	12	13	14	15	16	17	18A	18B	18C	18D	
					9**	9**	-	-	-	-	-	-	Test Report	1. ASME B16.34, Appendix-III 2. MECON's T.S.	H	W	R	R	Bevel Surfaces (by MPI/ DP)
					13	13	-	-	-	-	-	-	Report/ Material Test Certificates	1. Relevant Material Standard	H	R	R	R	
					35	35	-	-	-	-	-	-	Material Test Certificates	1. Relevant Material Standard 2. MECON's T.S. 3. MECON's D.S.	H	H	R	R	
					41	41	-	-	-	-	-	-	Material Test Certificates	1. Relevant Material Standard 2. MECON's T.S. 3. MECON's D.S.	H	H	R	R	
					43	43	-	-	-	-	-	-	1. Test Report 2. Material Test Certificates for composition, hardness, thickness & integrity	1. MECON's T.S. 2. MECON's D.S. 3. ASTM B733 Std. 4. Manufacturer's Specification	H	H	R	R	
1.07	Seats	Material As per approved Datasheet			1,2	1,2	-	-	-	-	-	-	1. D1 2. Report	1. D1 2. Relevant Material Standard 3. Manufacturer's Specification	H	R	R	R	
					4	4	-	-	-	-	-	-	Material Test Certificates	1. Relevant Material Standard 2. MECON's D.S.	H	H	R	R	
					5	5	-	-	-	-	-	-	Material Test Certificates	1. Relevant Material Standard 2. MECON's T.S. 3. MECON's D.S.	H	H	R	R	
					6**	6**	-	-	-	-	-	-	Test Report	1. ASME B16.34, Appendix-IV 2. MECON's T.S.	H	W	R	R	Forgings, welds, wrought weld ends
					7**	7**	-	-	-	-	-	-	Test Report	1. ASME B16.34, Appendix-II 2. MECON's T.S.	H	W	R	R	Wet MPI for 100% of internal surfaces of all castings & forgings & bevel surfaces (MPI/ DP)

EQUIPMENT DETAILS					INSPECTION AND TESTS								Test Certificates & Documents to be submitted to MECON	Acceptance Criteria Standards/ IS/ BS/ ASME/ Norms and Documents	Inspection Codes & Sampling Plan				REMARKS
Sl. No.	Description (with equipment heading, place of use and brief specifications)	Identification No.	Quantity No./M	Unit Weight (Kg)	Raw Material and In-Process stage inspection				Final Inspection/ Test by						MFR/SV	TPI	CONTR	MECON	
					MFR/SV	TPI	CONTR	MECON	MFR/SV	TPI	CONTR	MECON							
1	2	3	4	5	8	9	10	11	12	13	14	15	16	17	18A	18B	18C	18D	
					8**	8**	-	-	-	-	-	-	Test Report	1. ASME B16.34, Appendix-I 2. MECON's T.S.	H	W	R	R	All castings as per clause 5.1.4 b) of T.S., all welds, weld ends of all cast valves
					9**	9**	-	-	-	-	-	-	Test Report	1. ASME B16.34, Appendix-III 2. MECON's T.S.	H	W	R	R	Bevel Surfaces (by MPI/ DP)
					13	13	-	-	-	-	-	-	Report/ Material Test Certificates	1. Relevant Material Standard	H	R	R	R	
					35	35	-	-	-	-	-	-	Material Test Certificates	1. Relevant Material Standard 2. MECON's T.S. 3. MECON's D.S.	H	H	R	R	
					41	41	-	-	-	-	-	-	Material Test Certificates	1. Relevant Material Standard 2. MECON's T.S. 3. MECON's D.S.	H	H	R	R	
					43	43	-	-	-	-	-	-	1. Test Report 2. Material Test Certificates for composition, hardness, thickness & integrity	1. MECON's T.S. 2. MECON's D.S. 3. ASTM B733 Std. 4. Manufacturer's Specification	H	H	R	R	
1.08	Bolting Material (Studs & Nuts)	Material As per approved Datasheet			1,2	1,2	-	-	-	-	-	-	1. D1 2. Report	1. D1 2. Relevant Material Standard 3. Manufacturer's Specification	H	R	R	R	Alongwith thickness measurement for ENP Coating.
					4	4	-	-	-	-	-	-	Material Test Certificates	1. Relevant Material Standard 2. MECON's D.S.	H	H	R	R	
					5	5	-	-	-	-	-	-	Material Test Certificates	1. Relevant Material Standard 2. MECON's T.S. 3. MECON's D.S.	H	H	R	R	
					6**	6**	-	-	-	-	-	-	Test Report	1. ASME B16.34, Appendix-IV 2. MECON's T.S.	H	W	R	R	Forgings, welds, wrought weld ends

EQUIPMENT DETAILS					INSPECTION AND TESTS								Test Certificates & Documents to be submitted to MECON	Acceptance Criteria Standards/ IS/ BS/ ASME/ Norms and Documents	Inspection Codes & Sampling Plan				REMARKS
Sl. No.	Description (with equipment heading, place of use and brief specifications)	Identification No.	Quantity No./M	Unit Weight (Kg)	Raw Material and In-Process stage inspection				Final Inspection/ Test by						MFR/SV	TPI	CONTR	MECON	
					MFR/SV	TPI	CONTR	MECON	MFR/SV	TPI	CONTR	MECON							
1	2	3	4	5	8	9	10	11	12	13	14	15	16	17	18A	18B	18C	18D	
					7**	7**	-	-	-	-	-	-	Test Report	1. ASME B16.34, Appendix-II 2. MECON's T.S.	H	W	R	R	Wet MPI for 100% of internal surfaces of all castings & forgings & bevel surfaces (MPI/ DP)
					8**	8**	-	-	-	-	-	-	Test Report	1. ASME B16.34, Appendix-I 2. MECON's T.S.	H	W	R	R	All castings as per clause 5.1.4 b) of T.S., all welds, weld ends of all cast valves
					9**	9**	-	-	-	-	-	-	Test Report	1. ASME B16.34, Appendix-III 2. MECON's T.S.	H	W	R	R	Bevel Surfaces (by MPI/ DP)
					13	13	-	-	-	-	-	-	Report/ Material Test Certificates	1. Relevant Material Standard	H	R	R	R	
					41	41	-	-	-	-	-	-	Material Test Certificates	1. Relevant Material Standard 2. MECON's T.S. 3. MECON's D.S.	H	H	R	R	
1.09	Assembled Valves				-	-	-	-	1,2	1,2	1,2	1,2	Report	1. D1 2. MECON's T.S.	H	H	W	W/R	
					-	-	-	-	3	3	3	3	Report		H	H	W	W/R	
					-	-	-	-	14	14	14	14	1. Report 2. Test Certificates	1. D1 2. MECON's T.S. 3. MECON's D.S. 4. API 6D Std./ BS EN 12266 (as applicable)	H	H	W	W/R	
					-	-	-	-	15	15	15	15	1. Report 2. Test Certificates	1. D1 2. MECON's T.S. 3. MECON's D.S. 4. API 6D Std./ BS EN 12266 (as applicable)	H	H	W	W/R	
									40	40	40	40	1. Report 2. Test Certificates	1. API 607/ API 6FA / BS EN ISO 10497 (as applicable) 2. MECON's T.S. 3. MECON's D.S.	R	R	R	R	
									42	42	42	42	1. Report 2. Test Certificates	1. MECON's T.S. 2. MECON's D.S. 3. API 6D Std. (as applicable)	H	H	W	W/R	
					-	-	-	-	37	37	37	37	Certificates		-	R	R	R	
					-	-	-	-	44	44	44	44	1. Report 2. Test Certificates	1. MECON's T.S. 2. MECON's D.S. 3. Manufacturer's Specification	H	W	W	W/R	Inspection & test to be witnessed by MECON for buried valve surface paint integrity & thickness

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INSPECTION AND TEST PLAN
FOR
ASSORTED PIPES

STANDARD SPECIFICATION NO.
MEC/TS/05/62/59A
Page 1 of 3

INSPECTION AND TEST PLAN
FOR
ASSORTED PIPES

1	26.02.2020	ISSUED FOR IMPLEMENTATION	Sachin Kumar	Sachin Singhal	A K Gupta	
Rev. No.	Date	Purpose	Prepared	Checked by	Approved by	



INSPECTION AND TEST PLAN FOR ASSORTED PIPES

STANDARD SPECIFICATION NO.

MEC/TS/05/62/59A

Page 2 of 3

SL.NO.	STAGE	COMPONENT	CHARACTERISTICS	METHOD OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENTS	ACCEPTANCE NORMS	RECORD	SCOPE OF INSPECTION		
									Manufacturer	TPIA	Client/Mecon
1.0	Raw material inspection	Plate/Sheet/Strip	(i)Chemical Composition: CE	Testing	One sample per heat	Relevant Code & Technical Specification	As per code & Technical Specification	Mill test Certificate/report	H	R	R
			(ii)Mechanical properties YS,UTS,EL	Testing	One sample per heat	Relevant Code & Technical Specification	As per code & Technical Specification	Inspection report	H	R	R
2.0	Manufacturing, welding (HFW & SAW)	Pipe	Welding Speed, Current, Voltage, Frequency, Offset, Height of Flash & Trim	Record of Parameter	100% by Vendor	Relevant Code & Technical Specification	Approved WPS	Internal report	P	R	R
3.0	Product Testing										
3.1	Destructive Testing	Pipe	Mechanical Properties	Tensile, Flattening, Reverse Bend, Hardness, Impact & Macro	One sample per heat	Relevant Code & Technical Specification	As per code & Technical Specification	Lab Report	W	W	W
			Chemical Properties	Chemical Composition							
3.2	Non Destructive Testing	Pipe	Surface & Internal Inspection	UT/RT or as per code & specification	100% by Vendor	Relevant Code & Technical Specification	As per code & Technical Specification	Inspection Report/Internal Record	W	R	R

ITP No. : 05/21/012E/001



INSPECTION AND TEST PLAN FOR ASSORTED PIPES

STANDARD SPECIFICATION NO.

MEC/TS/05/62/59A

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SL.NO.	STAGE	COMPONENT	CHARACTERISTICS	METHOD OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENTS	ACCEPTANCE NORMS	RECORD	SCOPE OF INSPECTION		
									Manufacturer	TPIA	Client/Mecon
3.3	Heat Treatment (As Applicable)	Pipe	Stress Relieving, Normalizing, Tempering, Solution Annealing etc.	Temperature Recording	Each Pipe	Relevant Code & Technical Specification	Relevant Code & Technical Specification	HT Chart	P	R	R
4.0	Hydrostatic test	Pipe	No leak	Visual	Each Pipe	Relevant Code & Technical Specification	As per code & Technical Specification	Inspection Report, Hydraulic Graph	W	W	RW
5.0	Final inspection	Pipe	Straightness, Outer Diameter (Pipe Body, Pipe Ends), Out of Roundness, Thickness, Length, Surface Lamination, Root Face, Bevel Angle	Visual, dimensional	100% by vendor	Relevant Code & Technical Specification	As per code & Technical Specification	Inspection Report	W	W	RW
6.0	Galvanizing (If Applicable)	Pipe	Integrity of Galvanized Coating	---	Each Pipe	Relevant Code & Technical Specification	As per code & Technical Specification	Inspection Report	P	R	R
	Legends/Notes:										
.	W-witness, R-Review, RW- Minimum 10% witness and 100% Review ,										



INSPECTION AND TEST PLAN
FOR
CONDUIT PIPES

STANDARD SPECIFICATION NO.
MEC/TS/05/62/59A
Page 1 of 3

INSPECTION AND TEST PLAN
FOR
CONDUIT PIPES

1	05.05.2020	ISSUED FOR IMPLEMENTATION	Sachin Kumar	Sachin Singhal	A K Gupta	
Rev. No.	Date	Purpose	Prepared	Checked by	Approved by	



INSPECTION AND TEST PLAN FOR CONDUIT PIPES

STANDARD SPECIFICATION NO.

MEC/TS/05/62/59A

Page 2 of 3

SL.NO.	STAGE	COMPONENT	CHARACTERISTICS	METHOD OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENTS	ACCEPTANCE NORMS	RECORD	SCOPE OF INSPECTION		
									Manufacturer	TPIA	Client/Mecon
1.0	Raw material inspection	Plate/Sheet/Strip	(i)Chemical Composition: CE	Testing	One sample per heat	Relevant Code & Technical Specification	As per code & Technical Specification	Mill test Certificate/ report	H	R	R
			(ii)Mechanical properties YS,UTS,EL	Testing	One sample per heat	Relevant Code & Technical Specification	As per code & Technical Specification	Inspection report	H	R	R
2.0	Manufacturing, welding (HFW & SAW)	Pipe	Welding Speed, Current, Voltage, Frequency, Offset, Height of Flash & Trim	Record of Parameter	100% by Vendor	Relevant Code & Technical Specification	Approved WPS	Internal report	P	R	R
3.0	Product Testing										
3.1	Destructive Testing	Pipe	Mechanical Properties	Tensile, Flattening, Reverse Bend, Hardness, Impact & Macro	One sample per heat	Relevant Code & Technical Specification	As per code & Technical Specification	Lab Report	W	W	R
			Chemical Properties	Chemical Composition							
3.2	Non Destructive Testing	Pipe	Surface & Internal Inspection	UT/RT or as per code & specification	100% by Vendor	Relevant Code & Technical Specification	As per code & Technical Specification	Inspection Report/ Internal Record	W	R	R

ITP No. : 05/21/012E/001



INSPECTION AND TEST PLAN FOR CONDUIT PIPES

STANDARD SPECIFICATION NO.

MEC/TS/05/62/59A

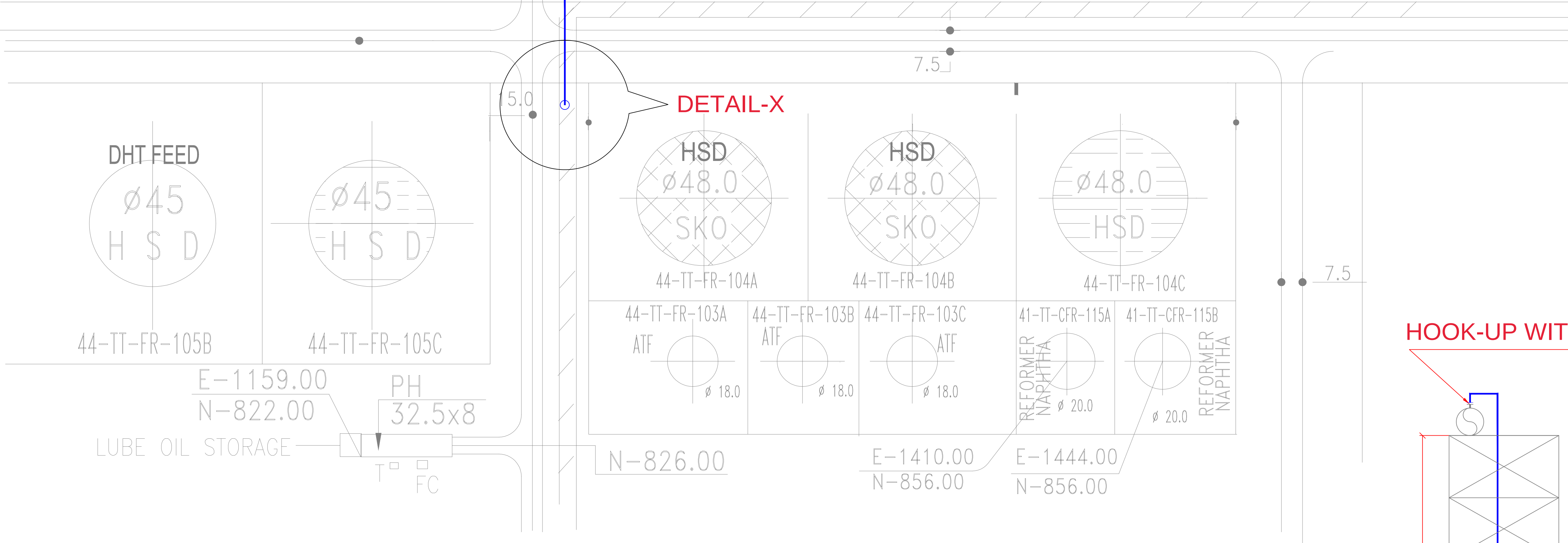
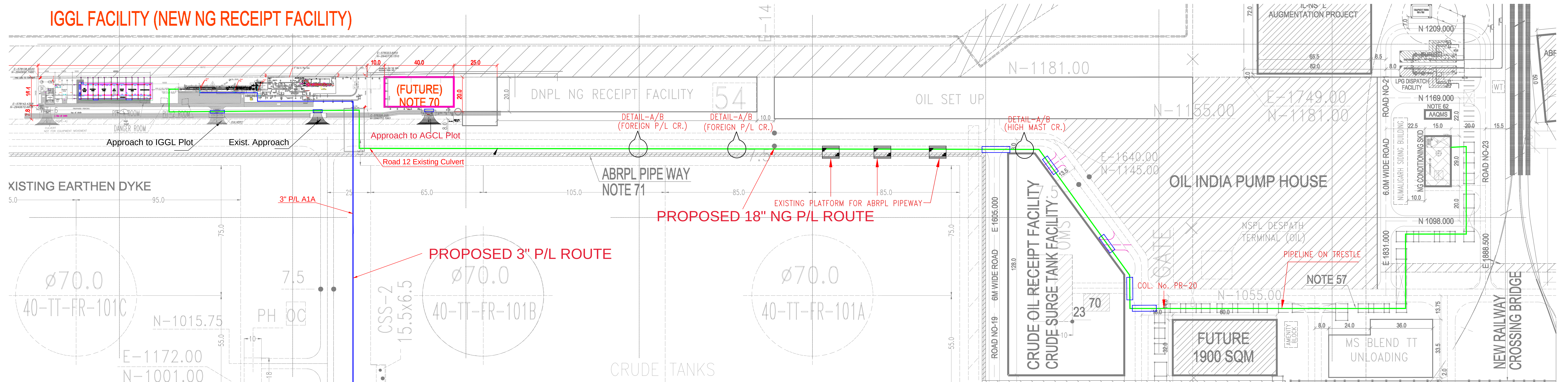
Page 3 of 3

SL.NO.	STAGE	COMPONENT	CHARACTERISTICS	METHOD OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENTS	ACCEPTANCE NORMS	RECORD	SCOPE OF INSPECTION		
									Manufacturer	TPIA	Client/Mecon
3.3	Heat Treatment (As Applicable)	Pipe	Stress Relieving, Normalizing, Tempering, Solution Annealing etc.	Temperature Recording	Each Pipe	Relevant Code & Technical Specification	Relevant Code & Technical Specification	HT Chart	P	R	R
4.0	Hydrostatic test	Pipe	No leak	Visual	Each Pipe	Relevant Code & Technical Specification	As per code & Technical Specification	Inspection Report, Hydraulic Graph	W	RW	R
5.0	Final inspection	Pipe	Straightness, Outer Diameter (Pipe Body, Pipe Ends), Out of Roundness, Thickness, Length, Surface Lamination, Root Face, Bevel Angle	Visual, dimensional	100% by vendor	Relevant Code & Technical Specification	As per code & Technical Specification	Inspection Report	W	RW	R
6.0	Galvanizing (If Applicable)	Pipe	Integrity of Galvanized Coating	---	Each Pipe	Relevant Code & Technical Specification	As per code & Technical Specification	Inspection Report	P	R	R
	Legends/Notes:										
.	W-witness, R-Review, RW- Minimum 10% witness and 100% Review ,										

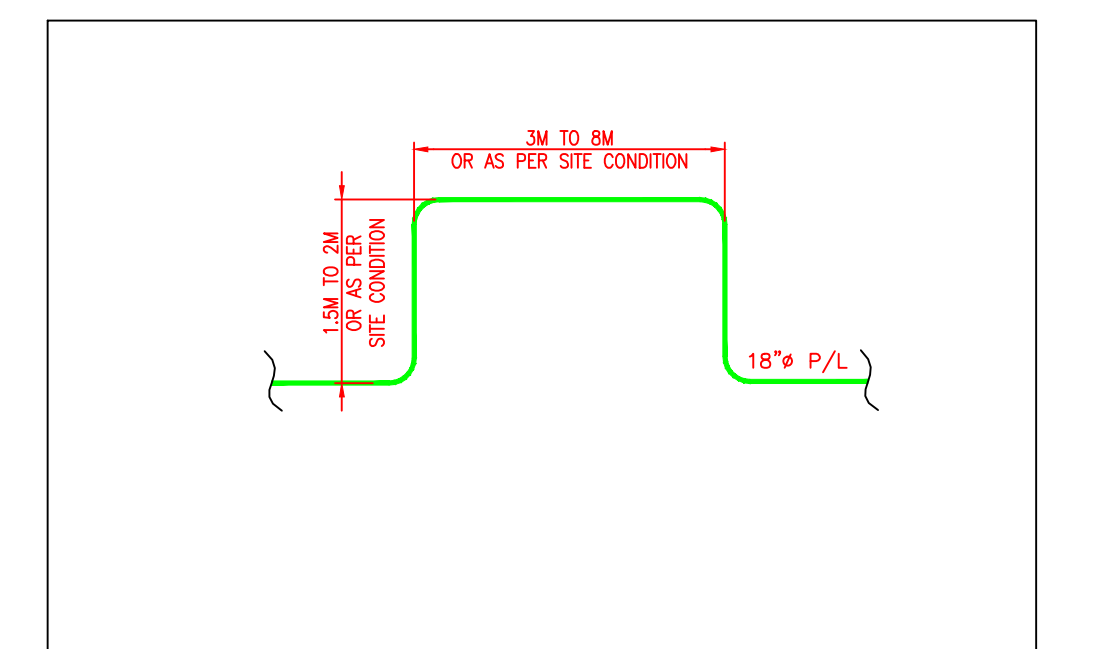
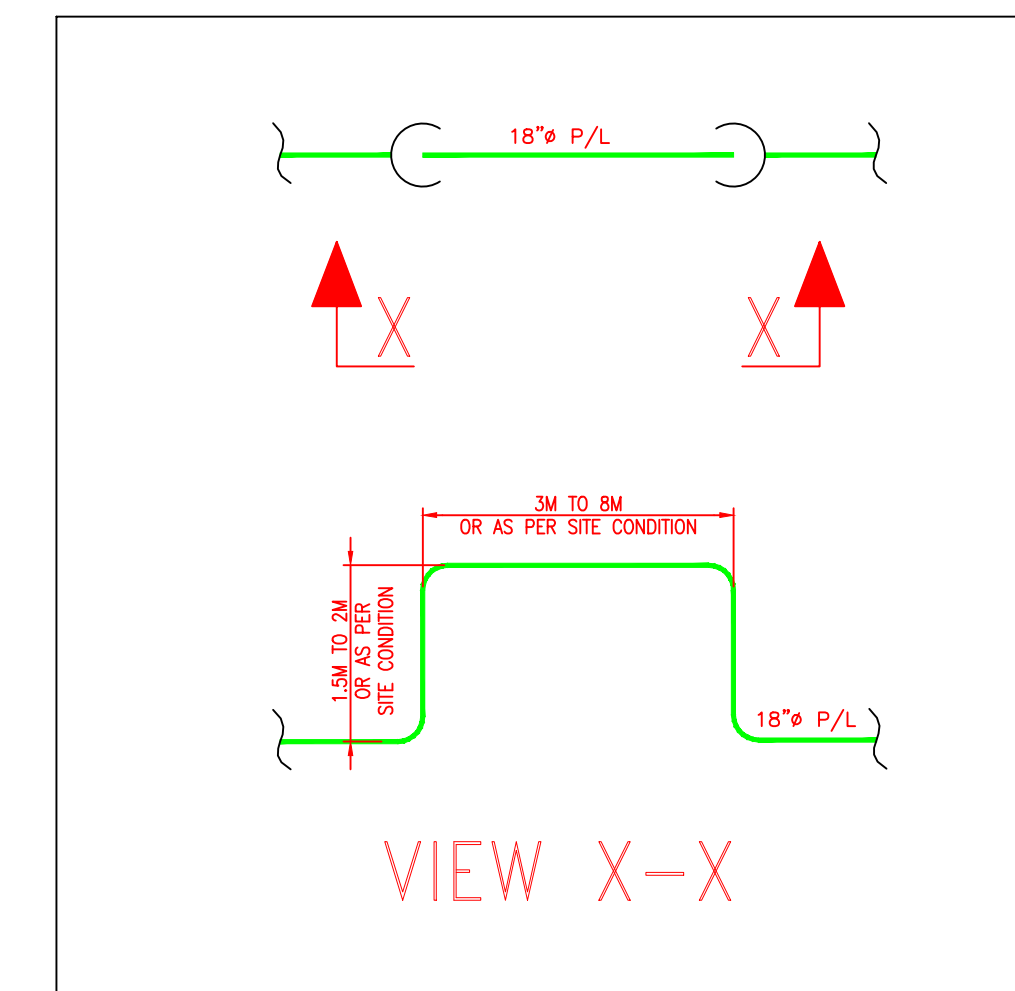
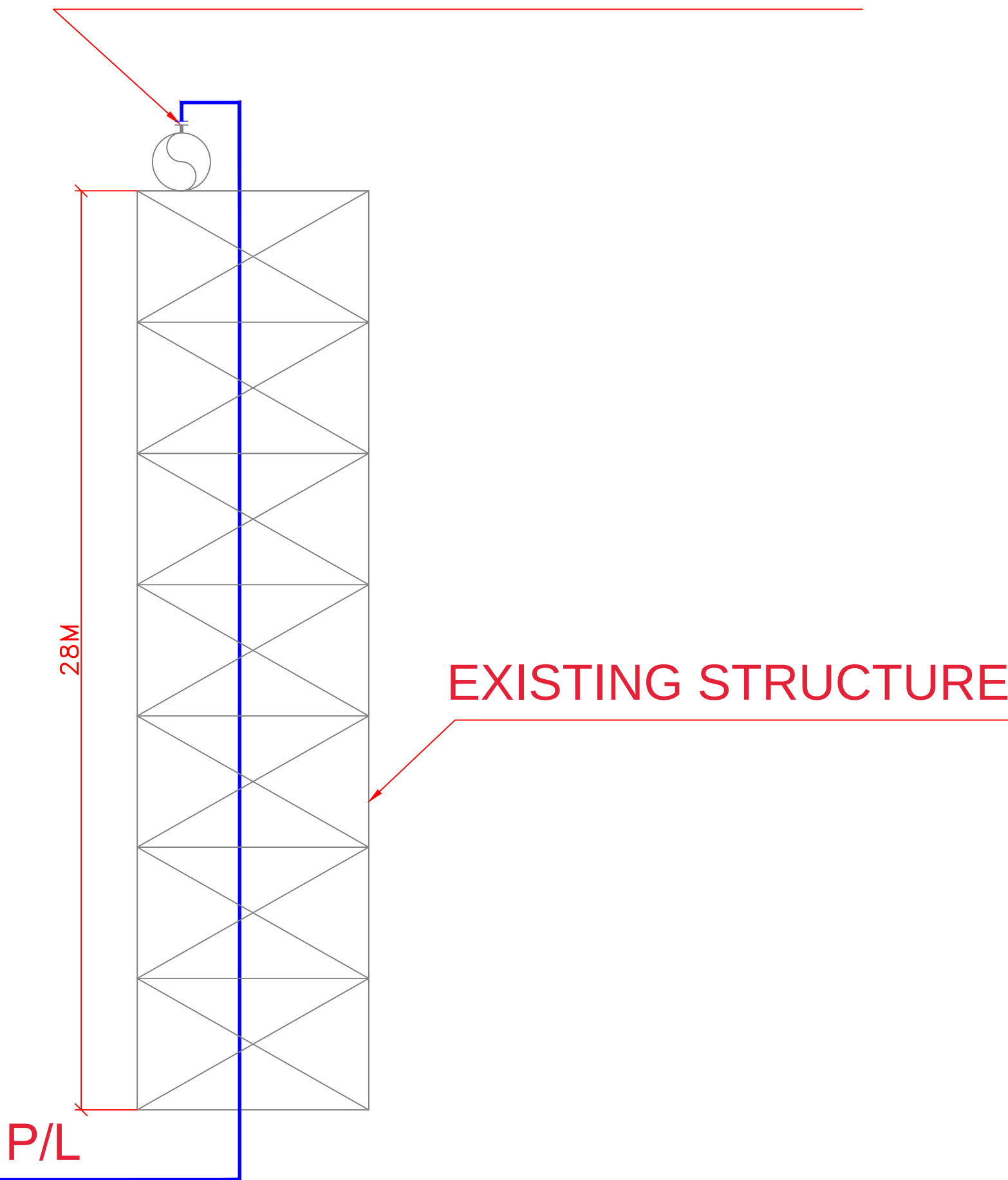
	OIL & GAS SBU	LAST MILE CONNECTIVITY WORK INSIDE NRL UNDER GUWAHATI- NUMALIGARH PIPELINE (SECTION-1) FOR NORTH EAST GAS GRID (NEGG) PIPELINE PROJECT	 MECON LTD, DELHI
TITLE	APPENDIX TO PJS	Pipeline & Piping Works	

13.0 PROPOSED PIPELINE ROUTE DIAGRAM
(Appendix-III to Particular Job Specification of Work)

IGGL FACILITY (NEW NG RECEIPT FACILITY)



HOOK-UP WITH NRL FLARE HEADER



LEGEND:-

- PROPOSED 18" NG P/L ROUTE
- PROPOSED 2" NG P/L ROUTE
- EXISTING PLATFORM FOR ABRPL PIPEWAY
- PROPOSED CULVERT FOR CROSSING OF 18" NG P/L
- EXISTING PIPE RACK

FOR TENDER PURPOSE

		INDRADHANUSH GAS GRID LTD.	
		मेकॉन लिमिटेड	
		MECON LIMITED	
SECTION	OIL & GAS	NORTH EAST GAS GRID PIPELINE PROJECT GUWAHATI-NUNALIGARH (PIPELINE SECTION-1) LAST MILE CONNECTIVITY INSIDE NRL	
LOCATION	DELHI		
DESIGNED	HEMANT		
DRAWN	SUNIL	PROPOSED PIPING ROUTE FOR LAST MILE CONNECTIVITY INSIDE NRL	
CHECKED AND VERIFIED	S. GUPTA		
SIG	(SUMAN HAZRA)		
DATE	03.10.2025	SCALE : 1:100	SHEET REV
REFERENCES	MEC/23UU/05/28/M/001/0011-LMC	DRG. NO. MEC/05/28/23VC/M/PIPING ROUTE/NRL	1 OF 1 0

	OIL & GAS SBU	LAST MILE CONNECTIVITY WORK INSIDE NRL UNDER GUWAHATI- NUMALIGARH PIPELINE (SECTION-1) FOR NORTH EAST GAS GRID (NEGG) PIPELINE PROJECT	 MECON LTD, DELHI
TITLE	APPENDIX TO PJS	Pipeline & Piping Works	

14.0 THIRD PARTY INSPECTION AGENCY
(Appendix-IV to Particular Job Specification of Work)

	OIL & GAS SBU	LAST MILE CONNECTIVITY WORK INSIDE NRL UNDER GUWAHATI- NUMALIGARH PIPELINE (SECTION-1) FOR NORTH EAST GAS GRID (NEGG) PIPELINE PROJECT	 MECON LTD, DELHI
TITLE	APPENDIX TO PJS	Pipeline & Piping Works	

APPENDIX - IV

THIRD PARTY INSPECTION AGENCY

Contractor shall appoint anyone of the following TPIA for inspection purpose, wherever required as per tender document. Contractor has to propose minimum 4 nos. of below listed agencies to be approved by IGGL / MECON:

- a) Det Norske Veritas (DNV)
- b) Germanischer Lloyd
- c) Bureau Veritas (BV)- IGGL's surveillance TPI as on date
- d) Moody International
- e) ABS - IGGL's surveillance TPI as on date
- f) SGS
- g) Certification Engineer International Ltd(CEIL)
- h) Technische Ueberwachungs Verein (TUV)
- i) Velosi
- j) American Bureau Services
- k) AB-Vincotte
- l) Lloyd Register of Industrial Services
- m) Meenar Global
- n) VCS Quality Services Private Limited

Apart from inspection by TPIA, inspection may also be performed by MECON / IGGL's personnel.

	OIL & GAS SBU	LAST MILE CONNECTIVITY WORK INSIDE NRL UNDER GUWAHATI- NUMALIGARH PIPELINE (SECTION-1) FOR NORTH EAST GAS GRID (NEGG) PIPELINE PROJECT	 MECON LTD, DELHI
TITLE	APPENDIX TO PJS	Pipeline & Piping Works	

15.0 LIST OF APPROVED PARTIES FOR BOUGHT OUT ITEMS

(Appendix-V to Particular Job Specification of Work)

	OIL & GAS SBU	LAST MILE CONNECTIVITY WORK INSIDE NRL UNDER GUWAHATI- NUMALIGARH PIPELINE (SECTION-1) FOR NORTH EAST GAS GRID (NEGG) PIPELINE PROJECT	 MECON LTD, DELHI
TITLE	APPENDIX TO PJS	Pipeline & Piping Works	

Appendix-V
To Particular Job Specification of Work

LIST OF SUPPLIERS OF MAJOR BOUGHT-OUT ITEMS

A) Mainline & Mechanical

i) PIPE CARBON STEEL TO INDIAN STANDARDS

1. A.S.T. PIPES PVT. LTD. (AST GROUP)
2. ADVANCE STEEL TUBE LTD.
3. APL APOLLO TUBES LTD. (ER. BIHAR TUBES LTD.
4. ASIAN MILLS PVT. LTD.
5. ASRANI TUBES LIMITED
6. DADU PIPES (P) LTD.
7. ESSAR STEEL LIMITED(ER HAZIRA PIPES MILL)
8. GAURANG PRODUCTS PVT LTD. (AST GROUP)
9. GOODLUCK STEEL TUBES LTD.
10. HI- TECH PIPES LIMITED
11. INDUS TUBE LIMITED
12. JINDAL INDUSTRIES LTD
13. JINDAL PIPES LTD.
14. JINDAL SAW LTD (KOSI WORKS)
15. JOTINDRA STEEL & TUBE LTD
16. LALIT PIPES AND PIPES LTD.
17. MAHARASHTRA SEAMLESS LTD.
18. MAN INDUSTRIES (INDIA) LTD. – PITHAMPUR
19. MAN INDUSTRIES (INDIA) LTD. ANJAR
20. MUKAT TANKS & VESSELS LTD.
21. NEZONE TUBES LIMITED
22. NORTH EASTERN TUBES LIMITED
23. PRATIBHA INDUSTRIES LIMITED
24. PRATIBHA PIPES & STRUCTURAL LTD.
25. PSL LTD (CHENNAI)
26. PSL LTD (V1, V2 & NC)
27. RAMA STEEL TUBES LTD.
28. RATNAMANI METALS AND TUBES LTD.
29. RAVINDRA TUBES LIMITED
30. SAMSHI PIPE INDUSTRIES LIMITED
31. SURYA ROSHNI LTD.
32. SWASTIK PIPES LTD.
33. UTKARSH TUBES & PIPES LTD. (FORMLY BMW)
34. WELSPUN CORP. LIMITED (DAHEJ)
35. ZENITH BIRLA (INDIA) LIMITED

ii) PIPE & TUBULARS TO A.P.I. STANDARDS

1. ARCELORMITTAL TUBULAR PRODUCTS ROMAN SA,ROMANIA
2. BHEL (TRICHY),INDIA

	OIL & GAS SBU	LAST MILE CONNECTIVITY WORK INSIDE NRL UNDER GUWAHATI- NUMALIGARH PIPELINE (SECTION-1) FOR NORTH EAST GAS GRID (NEGG) PIPELINE PROJECT	 MECON LTD, DELHI
TITLE	APPENDIX TO PJS	Pipeline & Piping Works	

3. DALMINE SPA (ENQUIRY TO TENARIS), UAE
4. EEWKOREA CO. LTD (GERMANY), KOREA
5. EEW KOREA CO. LTD. (KOREA), KOREA
6. EISENBAU KRAMER GMBH, GERMANY
7. HYUNDAI RB CO. LTD. SOUTH KOREA
8. ILVA LAMIERE E TUBI SRL (ENQ TO ILVA SPA, ITALY
9. INOX TECH. SPA, ITALY
10. ISMT LTD. AHMEDNGR, INDIA
11. ISMT LTD. BARAMATI, INDIA
12. JINDAL PIPES LTD., INDIA
13. JINDAL SAW LTD. (KOSI WORKS), INDIA
14. JINDAL SAW LTD. (NASHIK WORKS), INDIA
15. LALIT PIPES AND PIPES LTD. INDIA
16. MAHARASHTRA SEAMLESS LTD., INDIA
17. MAN INDUSTRIES (I) LTD. (PITHAMPUR), INDIA
18. MUKAT TANKS & VESSELS LTD., INDIA
19. PRATIBHA INDUSTRIES LIMITED, INDIA
20. RATNAMANI METALS AND TUBES LTD., INDIA
21. SIDERCA S.A.I.C (ENQUIRY TOTENARIS), UAE
22. SUMITOMO METAL IND. LTD., INDIA
23. SURYA ROSHNI LTD., INDIA
24. SWASTIK PIPES LTD, INDIA
25. TATA STEEL UK LIMITED (FORMERLY C702)
26. TUBOS DE ACERO DE MEXICO SA (ENQ. TENARIS), UAE
27. TUBOS REUNIDOS SASPAIN
28. UMRAN STEEL PIPE INC (TURKEY), TURKEY
29. VALCOVNY TRUB CHOMUTOV, CZECH REPUBLIC
30. VALLOUREC AND MANNESMANN TUBES, FRANCE
31. WELSPUN CORP LIMITED (DAHEJ), INDIA

iii) PIPE/TUBE CS (SEAMLESS) TO ASTM STDS

1. ARCELORMITTAL TUBULAR PRODUCTS ROMAN SA, ROMANIA
2. BHEL (TRICHY), INDIA
3. CHANGSHU SEAMLESS STEEL TUBE CO. LTD., CHINA
4. DALMINE SPA (ENQUIRY TO TENARIS, UAE
5. HEAVY METALS & TUBES LIMITED (MEHSANA), INDIA
6. ISMT LTD. AHMEDNGR, INDIA
7. ISMT LTD. BARAMATI INDIA
8. JFE STEEL CORPORATION, UAE
9. JINDAL SDAW LTD (NASHIK WORKS) INDIA
10. KLT AUTOMOTIVE AND TUBULAR PRODUCTS LTD., INDIA
11. MAHALAXMI SEAMLESS LIMITED, INDIA
12. MAHARASHTRA SEAMLESS LTD, INDIA
13. PRODUCTS TUBULARES S.A.U, SPAIN
14. RATNADEEP METAL TUBES LTD., INDIA
15. STAINNEST TUBES PVT LTD., INDIA
16. SUMITOMO METAL IND. LTD., INDIA
17. TUBOS REUNIDOS SASPAIN
18. VALCOVNY TRUB CHOMUTOV, CZECH REPUBLIC

	OIL & GAS SBU	LAST MILE CONNECTIVITY WORK INSIDE NRL UNDER GUWAHATI- NUMALIGARH PIPELINE (SECTION-1) FOR NORTH EAST GAS GRID (NEGG) PIPELINE PROJECT	 MECON LTD, DELHI
TITLE	APPENDIX TO PJS	Pipeline & Piping Works	

19. VALLOUREC ANDMANNESMANN TUBES FRANCE
20. YANGZHOU CHENGDE STEEL PIPE CO. LTD DUBAI (UAE)

iv) PIPE CARBON STEEL (WELDED) TO ASTM STDS

1. EEW KOREA CO. LTD. (GERMANY), KOREA
2. EEW KOREA CO. LTD. (KOREA), KOREA
3. EISENBAU KRAMER GMBH, GERMANY
4. HYUNDAI RB CO. LTD., SOUTH KOREA
5. INOX TECH. SPA, ITALY
6. JINDAL SAW LTD (KOSI WORKS), INDIA
7. LALIT PIPES AND PIPES LTD., INDIA
8. MAN INDUSTRIES (I) LTD.(PITHAMPUR), INDIA
9. MAN INDUSTRIES (INDIA) LTD. ANJAR, INDIA
10. MUKAT TANKS & VESSELS LTD., INDIA
11. RATNAMANI METALS AND TUBES LTD., INDIA
12. SUMITOMO METAL INDIA LTD., INDIA
13. TATA STEEL UK LIMITED

v) Valve

a) Globe Valves

- 1) M/s BDK (New Delhi)
- 2) M/s DatreCorpn (Calcutta)
- 3) M/s KSB Pumps (New Delhi)
- 4) M/s L&T (New Delhi)
- 5) M/s Neco Schuber & Salzer Ltd. (New Delhi)
- 6) M/s Niton Valve (Mumbai)
- 7) M/s Ornate Valves (Mumbai)
- 8) M/s Panchavati Valves (Mumbai)
- 9) AV Valves Ltd.
- 10) BHEL (Trichy), India
- 11) Econo Valves Pvt Ltd, India
- 12) FouressEngg (I) Ltd (Aurangabad)
- 13) Guru Industrial Valves Pvt Ltd
- 14) Leader Valves Ltd, India
- 15) NSSL Ltd. (Neco Schubert & SalzerLtd)
- 16) Oswal Industries Ltd, India
- 17) Petrochemical Engineering Enterprises, India
- 18) Sakhi Engineers Pvt Ltd
- 19) Shalimar Valves Pvt Ltd
- 20) Steel Strong Valves India Pvt Ltd, India
- 21) Petro Valves Pvt. Limited, Ahmedabad

	OIL & GAS SBU	LAST MILE CONNECTIVITY WORK INSIDE NRL UNDER GUWAHATI- NUMALIGARH PIPELINE (SECTION-1) FOR NORTH EAST GAS GRID (NEGG) PIPELINE PROJECT	 MECON LTD, DELHI
TITLE	APPENDIX TO PJS	Pipeline & Piping Works	

b) **Check Valves**

1. M/s Advance Valves Pvt. Ltd., Noida
2. M/s Aksons& Mechanical Enterprises, Mumbai
3. M/s Larsen & Toubro Limited (M/s Audco India Limited, Chennai)
4. M/s AV valves Ltd., Agra
5. M/s BDK engineering India Ltd., Hubli
6. M/s BHEL,OFE&OE Group, New Delhi
7. M/s DatreCoroportion Limited, Calcutta
8. M/s Leader Valves Ltd., Jalandhar
9. M/s Necoschubert&Salzer Ltd., New Delhi
10. M/s Niton Valves Industries (P) Ltd., Mumbai
11. M/s Precision Engg.Co., Mumbai
12. Econo Valves Pvt Ltd, India
13. FouressEngg (I) Ltd (Aurangabad)
14. KSB Pumps Ltd (Coimbatore), India
15. NSSL Ltd. (Neco Schubert &SalzerLtd)
16. Oswal Industries Ltd, India
17. Panchvati Valves &FlangesPvt Ltd, India
18. Petrochemical Engineering Enterprises, India
19. Sakhi Engineers Pvt Ltd
20. Shalimar Valves Pvt Ltd
21. Steel Strong Valves India Pvt Ltd, India

c) **Plug Valves**

1. M/s BredaEnergia Sesto Industria Spa, Italy
2. M/s Fisher Sanmar Ltd., Chennai
3. M/s Larsen & Toubro Ltd., New Delhi
4. M/s Nordstrom Valves, USA
5. M/s Serck Audco Valves, UK
6. M/s Sumitomo Corporation India Pvt. Ltd., New Delhi
7. M/s Z Corporation, Korea
8. M/s Hawa Valves (India) Pvt. Ltd., Mumbai
9. M/s Steel Strong Valves India Pvt. Ltd., Navi Mumbai
10. M/s Econo Valves
11. M/s Flow-Serve PTE (Mfr. SERCK), India

d) **Ball Valves**

1. M/s Hawa Valves (India) Pvt. Ltd, Navi Mumbai
2. M/s Larsen & Toubro, Delhi
3. M/s Microfinish Valves Pvt. Ltd., Noida
4. M/s Oswal Industries Ltd., Gandhi nagar
5. M/s Virgo Engineers Ltd., Delhi
6. M/s Boteli Valve Group Co. Ltd., China
7. M/s Cameron (Malaysia) SDN BHD, Malaysia

	OIL & GAS SBU	LAST MILE CONNECTIVITY WORK INSIDE NRL UNDER GUWAHATI- NUMALIGARH PIPELINE (SECTION-1) FOR NORTH EAST GAS GRID (NEGG) PIPELINE PROJECT	 MECON LTD, DELHI
TITLE	APPENDIX TO PJS	Pipeline & Piping Works	

8. M/s Dafram S.P.A., Italy
9. M/s Fangyuan Valve Group Co. Ltd., China
10. M/s Franz Schuck GmbH, Germany

vi) Flow Tee

- 1) M/s Coprosider SPA, Italy
- 2) M/s GEA Energy System India Limited, Chennai
- 3) M/s MultitexFiltration
- 4) M/s Pipeline Engineering, UK
- 5) M/s ScomarkEngg. Limited (U.K.)
- 6) M/s Skeltonhall Limited, England(U.K.)
- 7) M/s Technospecial SPA, Italy
- 8) M/s Tectubi SPA, Italy
- 9) M/s RMA Germany
- 10) M/s Pipefit Engineers Pvt. Ltd.

vii) Split Tee

- 1) M/s Ipsco, Canda
- 2) M/s TD Willamsons, USA

viii) Flanges

1. M/s Aditya Forge Ltd., Vadodara
2. M/s Amforge Industries Ltd., Mumbai
3. M/s CD Engineering Co., Ghaziabad
4. M/s Echjay Forgings Pvt. Ltd. (Bombay), Mumbai
5. M/s Echjay Industries Ltd., Rajkot
6. M/s Forge & Forge Pvt. Ltd., Rajkot
7. M/s Golden Iron & Steel Works, New Delhi
8. M/s JK Forgings, New Delhi
9. M/s Metal Forgings Pvt. Ltd., Mumbai
10. M/s Perfect Marketings Pvt. Ltd., New Delhi
11. M/s Sky Forge, Faridabad
12. M/s S&G, Faridabad
13. Chaudhry Hammer Works Ltd, India
14. JAV Forgings (P) Ltd, India
15. Kunj Forgings Pvt Ltd, India
16. MS Fittings
17. R.N. Gupta & Co. Ltd, India
18. R.P. Engineering Pvt Ltd, India
19. Sanghvi Forgings & Engineering Ltd
20. Shri Ganesh Forgings Ltd., India
21. Uma Shankar Khandelwal& Co., India
22. Sawan Engineers, Baroda

	OIL & GAS SBU	LAST MILE CONNECTIVITY WORK INSIDE NRL UNDER GUWAHATI- NUMALIGARH PIPELINE (SECTION-1) FOR NORTH EAST GAS GRID (NEGG) PIPELINE PROJECT	 MECON LTD, DELHI
TITLE	APPENDIX TO PJS	Pipeline & Piping Works	

23. Stewarts & Lloyds of India Ltd., Kolkata
24. Engineering Services Enterprises
25. Pipefit Engineers Pvt. Ltd.

ix) Fittings

1. M/s Commercial Supplying Agency, Mumbai
2. M/s Dee Development Engineers Ltd.
3. M/s Eby Industries, Mumbai
4. M/s Flash Forge Pvt. Ltd., Vishakhapatnam
5. M/s Gujarat Infra Pipes Pvt. Ltd., Vadodara
6. M/s M.S. Fittings Mfg. Co. Pvt. Ltd., Kolkata
7. M/s Stewarts & Lloyds of India Ltd., Kolkata
8. M/s Teekay Tubes Pvt. Ltd., Mumbai
9. M/s Pipe Fit, Baroda
10. M/s Sky Forge, Faridabad
11. M/s S&G, Faridabad
12. M/s Sawan Engineers, Baroda
13. Eby Fasteners, India
14. Leader Valves Ltd, India
15. R.N. Gupta & Co. Ltd, India
16. ExtenEngg Pvt Ltd
17. Sivananda Pipe & Fittings Ltd

x) Gaskets

1. IGP Engineers (P) Ltd., Madras
2. Madras Industrial Products, Madras
3. Dikson & Company, Bombay
4. Banco Products (P) Ltd., Vadodara
5. Goodrich Gaskets Pvt Ltd
6. Starflex Sealing India Pvt Ltd, India
7. Teekay Meta Flex Pvt Ltd
8. UNIKLINGER Ltd
9. HEM Engg. Corp.
10. Unique Industrial Packing Pvt. Ltd.

xi) Fasteners

1. NirekaEngg. Co. (P) Ltd., Calcutta
2. Precision Taps & Dies, Bombay
3. AEP Company, VithalUdyoug Nagar
4. Fix Fit Fasteners, Calcutta
5. Precision Engg. Industries, Baroda
6. Echjay Forgings Pvt. Ltd., Bombay
7. Capital Industries, Bombay
8. Boltmaster India Pvt Ltd, India
9. Deepak Fasteners Limited, India



OIL & GAS SBU

**LAST MILE CONNECTIVITY WORK
INSIDE NRL UNDER GUWAHATI-
NUMALIGARH PIPELINE (SECTION-1)
FOR NORTH EAST GAS GRID (NEGG)
PIPELINE PROJECT**



**MECON LTD,
DELHI**

TITLE

APPENDIX TO PJS

Pipeline & Piping Works

10. Fasteners & Allied Products Pvt Ltd, India
11. Hardwin Fasteners Pvt Ltd, India
12. J.J. Industries, India
13. Multi Fasteners Pvt Ltd, India
14. Nexo Industries, India
15. Pacific Forging & Fasteners Pvt Ltd, India
16. Pioneer Nuts & Bolts Pvt Ltd, India
17. Precision Auto Engineers, India
18. President Engineering Works, India
19. Sandeep Engineering Works, India
20. Syndicate Engineering Industries, India

xii) Welding Electrodes

1. For Mainline – Lincoln/ Bohler make
2. For Terminal –For root pass –Lincoln/ Bohlermake
For other passes – Lincoln, D&H or equivalent make

xiii) Miscellaneous

a) High Build Epoxy Coating

1. Berry Plastics – Powercrete
2. Specialty Polymer Canada
3. Denso Protal, Canada

B) NDT AGENCY

1. NDT Services, Ahmedabad
2. GEECY Industrial Services Pvt. Ltd., Mumbai
3. Corrosion Control Services, Mumbai
4. Perfect Metal Testing & Inspection Agency, Calcutta
5. Inter Ocean Shipping Co., New Delhi
6. RTD, Mumbai
7. Sievert, Mumbai
8. X-Tech, Vizag
9. Industrial X Ray and Allied Radiographers (I) Pvt. Ltd.

	OIL & GAS SBU	LAST MILE CONNECTIVITY WORK INSIDE NRL UNDER GUWAHATI- NUMALIGARH PIPELINE (SECTION-1) FOR NORTH EAST GAS GRID (NEGG) PIPELINE PROJECT	 MECON LTD, DELHI
TITLE	APPENDIX TO PJS	Pipeline & Piping Works	

For Suppliers'list of other disciplines, refer Particular Job Specification of the respective discipline.

- 1) For procuring bought out items from vendors other than those listed above, the same may be acceptable subject to the following: -
 - a) The vendor/ supplier of bought out item(s) is a manufacturer/ supplier of said item(s) for intended services and the sizes being offered is in their regular manufacturing/ supply range.
 - b) The vendor / supplier should not be in the Holiday list of IGGL / MECON / other PSU.
 - c) Should have supplied at least one single random length (i.e. 5.5 meters to 6.5 meters) for item assorted pipes / tubes and for other items, which are to be supplied in quantity on number-basis (other than assorted pipes / tubes) minimum 01 (One) number of same or higher in terms of size and rating as required for intended services.

The bidder should enclose documentary evidences i.e. PO copies, Inspection Certificate etc. for the above for approval to IGGL/MECON.

- 2) For any other item(s) for which the vendor list is not provided, bidders can supply those item(s) from vendors/ suppliers who have earlier supplied same item(s) for the intended services in earlier projects and the item(s) offered is in their regular manufacturing/ supply range.

The bidder is not required to enclose documentary evidences (PO copies, Inspection Certificate etc.) along with their offer, however in case of successful bidder, these documents shall required to be submitted by them within 30 days from date of Placement of Order for approval to IGGL / MECON.

- 3) The details of vendors indicated in this list are based on the information available with MECON. Contractor shall verify capabilities of each vendor for producing the required quantity. PMC does not guarantee any responsibility on the performance of the vendor. It is the contractor's responsibility to verify the correct status of vendor and quality control of each parties and also to expedite the material in time.
- 4) Any vendor whose name does not appear above but if the same is registered with MECON/CVDC, then those vendors are also acceptable for supply of relevant items.

	OIL & GAS SBU	LAST MILE CONNECTIVITY WORK INSIDE NRL UNDER GUWAHATI- NUMALIGARH PIPELINE (SECTION-1) FOR NORTH EAST GAS GRID (NEGG) PIPELINE PROJECT	 MECON LTD, DELHI
TITLE	APPENDIX TO PJS	Pipeline & Piping Works	

16.0 INSPECTION CATEGORIZATION PLAN

(Appendix-XIV– to Particular Job Specification of Work)

INSPECTION CATEGORISATION PLAN

Sl. No.	Item Description	Unit	Inspection Category TPIA	Inspection Category Contractor	Inspection Category PMC
1.0	Pipeline Works				
1.1	Electrode	Lot	N/A	C	C
1.2	Joint Coating Material	Lot	N/A	C	C
1.3	Casing Pipe	Mtrs.	N/A	C	C
1.4	Casing Insulator	Nos.	N/A	C	C
1.5	Casing End Seal	Nos.	N/A	C	C
2.0	Instrumentation Works				
2.1	Instruments (PG, TG, PT, TT, LEL Detectors, RTD etc)	Nos.	B	B/C	B/C
2.2	Instrument cables	Nos.	B	B/C	B/C
2.3	Control panel	Nos.	B	B/C	B/C
2.4	Cable Trays	Nos.	N/A	C	C
2.5	Junction Boxes , Cable Glands	Nos.	N/A	C	C
2.6	Tube Fittings , Tube manifolds	LS	N/A	C	C
2.7	Instrumentation Valves	Nos.	N/A	C	C
3.0	Telecom Works				
3.1	Jointing Closures	Nos.	N/A	B/C	C
3.2	Electronic Markers & Locators	Nos.	N/A	B/C	C
3.3	HDPE Duct and Accessories	Mtrs.	B	B/C	B/C
3.4	OFC	Drum	B	B/C	B/C
4.0	TCP				
4.1	CP Cables (1Cx6Sqmm, 1Cx10 Sqmm, 1Cx25Sqmm & 1Cx35Sqmm)	Mtrs.	B	C	C
4.2	Test Stations (Big & Small Type)	Nos.	B	C	C
4.3	Sacrificial Mg & Zn Anodes	Nos.	B	C	C
4.4	Spark Gap Arrestor (100 kA)	Nos.	N/A	C	C
4.5	Polarisation Cell (Solid State)	Nos.	N/A	C	C

4.6	External ER Probe	Nos.	N/A	C	C
4.7	CTSU (Computerised Test Station Unit) & CTSU Reader	Nos.	B	C	C
4.8	Permanent Reference Cell	Nos.	B	C	C
4.9	Zinc Ribbon Anode	Mtr/Nos.	B	C	C
5.0	CMS				
5.1	ER Probe, Access Fitting Assembly For ER Probes	Nos.	B	C	C
5.2	Transmitter & Receiver	Nos.	B	C	C
5.3	Corrosion coupons, coupon holder, access fitting assembly for corrosion coupons	Nos.	B	C	C
5.4	Retriever Kit, Service Valve Kit	Nos.	B	C	C
6.0	Electrical				
6.1	PDB-1/2, I-E LDB, PP LDB, OLDB	Nos.	N/A	B	B
6.2	FLP Feeder Pillar (Structure mounted) for outdoor lighting	Nos.	N/A	C	C
6.3	Inverter with tubular battery	Nos.	N/A	C	C
6.4	Earthing material (Earth pit with GI Electrode/Cu plate Electrode, GI/Copper Strips, GI wire, GI Lightning rod, Advance Maintenance free earthing system)	Nos.	B	C	C
6.5	Power & Control Cables (HT & LT)	Mtrs.	B	B	C
6.6	Lighting fixtures (FLP & Non-FLP type)	Nos.	N/A	C	C
6.7	Street Light Pole (6Mtr height)	Nos.	B	C	C
6.8	High Mast & FLP Feeder pillar panel for High Mast	Set	B	C	C
6.9	Distribution Transformers (11/0.433kV)	Nos.	N/A	B	B
6.10	MCCB Enclosure – WP Outdoor type	Nos.	N/A	B	B
6.11	ACSR weasel conductor	Mtrs.	N/A	C	C
6.12	Ceiling/Wall mounted Fans, Exhaust Fans, Air conditioners,	Nos.	N/A	C	C

6.13	Welding socket	Nos.	N/A	C	C
6.14	Cable Tray	Mtrs.	N/A	C	C
6.15	First Aid box	Nos.	N/A	C	C
6.16	Carbon-di-oxide(CO2) type fire extinguisher	Nos.	N/A	C	C
6.17	Insulating Mat	Mtrs.	N/A	C	C
6.18	Telephone/LAN socket, LAN Switches	Nos.	N/A	C	C
6.19	Telephone/LAN/UTP cable	Nos.	N/A	C	C
6.20	AVR	Nos.	N/A	B	B

LEGEND:

1. A - Stage-wise Inspection + Final Inspection + Document Review as per approved ITP / MTC / QAP.
2. B - Final Inspection + Document Review as per approved ITP / MTC / QAP.
3. C - Document Review as per approved ITP / MTC / QAP.

Notes:

1. TPIA – Third party inspection agency
2. QAP shall be prepared by vendor / laying contractor and shall be submitted for approval.
3. All materials to be procured from MECON approved vendor.

ANNEXURE-I TO PARTICULAR JOB SPECIFICATION

Civil Works

CIVIL ENGINEERING WORKS

I) GENERAL

M/s IGGL has awarded M/s MECON Limited project management consultancy (PMC) services for North-East Gas Grid pipeline Project for Laying, Testing and Commissioning of pipeline in Section-4 (12" NB x 56.310 Km (approx.), Section-6 (18" NB x 195.7 Km. (approx.), Section-7 (12" x 126.712 Km (approx.), Section-8 (12" x 128.311 Km (approx.), Section-13 (12" x 6.283 Km (approx.), Section-14 (8" x 22.135 Km (approx.) for transportation of Natural Gas (dry)/ R-LNG.. This pipeline shall pave the path for industrialization and development of CGD in North-East region

M/s MECON Ltd has been engaged by M/s IGGL to carry out design, engineering, procurement, inspection & Project Management Consultancy Services required transportation and distribution of Natural Gas.

All the associated Foundations & Civil/Architectural/Structural works shall be carried out as per the relevant standard specifications listed in various General Technical Specifications and concept with materials based on GREEN BUILDING. Green building (also known as green construction or sustainable building) refers to both a structure and the using of processes that are environmentally responsible and resource- efficient throughout a building's life-cycle from sitting to design, construction, operation, maintenance, renovation, and demolition

The scope of work to be performed under this contract shall include complete Civil works as per plans, equipment layout, drawings & technical specifications for Green building, environmentally safe w.r.t. all materials and energy of various Terminals.

The contractor shall maintain proper record of all the materials/ equipment procured w.r.t. their source & specifications with details of their manufacturing and recycled content etc. and submits along with all supporting documents/photographs to Client & PMC for record purpose.

The complete work has been mentioned as below-

- Approx 85 nos of Sleeper supports of size 300mm x 675 mm
- 4 nos box culverts of size 8mx1mx1m and 4 nos of box culvert of size 4mx1mx1m
- Approx. 20 nos of pipe supports
- Roads dismantling and restoration
- Appox 20 nos of sleeper supports for 2"inch pipeline of size 300mmx300mm

II) SCOPE OF SUPPLY

Contractor shall procure & supply to site all the materials including cement, reinforcing steel, steel sections/plates other masonry materials, admixtures & bonding agents, sealants, sand, etc. and any other construction material / item required to complete the civil works.

All costs towards testing/inspection of materials/goods shall be borne by the Contractor. No materials/items shall be supplied by the Owner.

III) SITE WORK

Complete construction work including supply of labour, construction materials, construction equipment, survey, tools & tackles, dismantling & modification/strengthening, supervision, testing etc. required to complete all the structures, foundations, finishes, steel inserts, painting, including site grading/earthwork in cutting & filling etc. as specified/applicable and required to complete the civil works in all respect.

(All enabling works e.g. construction water tank, fabrication yard, electricity, site stores & office, safety and security measures, coordination with other contractors working at site etc. shall be Contractor's responsibility.

Special permits to such as 'Hot Permit', "Fire Safety Permit" to work at project site, if required, shall be contractor's responsibility.)

IV) SCOPE OF WORK

The scope of work shall be broadly, but not limited to, the following:

1. Site grading of the area by removing 300 mm top soil including plot development by filling good quality earth or as per requirement.
2. Earth filling in embankments for external roads wherever required with provision of RCC Culverts/ Pipe Culvert.
3. Construction of sleeper and pipe supports as per drawings.
4. Construction of box culvert as per drawings.
5. Provision of all inserts, conduits, pre-cast covers, fixing of free issue Items into permanent works etc.
6. Clearing all construction debris and handing over completed work site.
7. Any other work not specifically mentioned but required to make the terminal functional.
8. Marking as-built details/drawings on one set of construction drawings and return to owner.
9. Photographs during various stages of construction for documentary evidence.

Civil works shall be carried out for the scope of work listed as above. Bidder shall understand the scope of work by visiting the work site in advance at his own expenses if required and required to complete all the civil works as per specifications, SOR, drawings and as directed by Engineer-in-charge.

Work to be executed shall include but not limited to the following:

- 1.1 All enabling works e.g. provision of site office for Contractor's personnel, temporary roads & drains, storage facilities for cement, steel & other materials, provision of lights, survey work, workshop etc. which are required for efficient working and timely completion of works.
- 1.2 Testing laboratory at site which is required for carrying out routine tests of Workmanship as part of Quality Assurance.
- 1.3 Site leveling & micro-leveling after dismantling of all temporary works.
- 1.4 Submission of all original test certificates & records of testing, all warranties, performance guarantees in favour of IGGL.
- 1.5 Any other works which may be necessary for completion of Construction and associated works.

PREAMBLE TO SCHEDULE OF ITEMS

1.0 GENERAL

This preamble to the schedule of items is an integral part of the schedule and shall have as much force as though this is incorporated into the description of the items themselves.

Contractor's rate for any items of work in the schedule of items shall, unless otherwise stated, be held to include the cost of all materials, including wastages, conveyance and delivery, unloading, storing, fabrication, hoisting, all labour for finishing to required shape and size, tools and plants, power, fuel, consumables, all taxes royalties, other revenue expenses, temporary facilities like roads, drains etc., providing temporary storage facilities for cement, steel and other materials and their subsequent dismantling, scaffolding and other temporary works, setting out, fitting and fixing in position, site drainage, dewatering, offering samples for approval, cost of all tests, rectification of all defects, replacement of defective materials and work, interruptions to work required to accommodate the work of other agencies working on the site, continuation of work beyond working hour, in the night and holidays also if situation warrants so, site clearance on completion, maintenance work during the period of maintenance, bye-work necessary to complete any particular item of work as per specification and direction of the E-I/C, overheads, profit and other incidental charges.

2.0 EARTH WORK

The rate of the related items shall include, but not limited to the following:

2.1 GENERAL

- 2.1.1 Setting out works, profiles etc. with reference pillars and their removal after completion of work.
- 2.1.2 Taking levels and reference axes wherever necessary from reference lines and bench mark, both for the original ground level as well as for the finished Work as directed.
- 2.1.3 Unless otherwise specified site clearance such as clearing of shrubs, green brush wood, under-growth and small trees not exceeding 30 cm. in girth at one meter above ground including uprooting stacking the serviceable materials within any lead and removal of all the rubbish unserviceable materials up to 1 Km lead.
- 2.1.4 Working in dry, wet and foul condition.
- 2.1.5 No distinction of rate between the work done manually or mechanically.
- 2.1.6 Dewatering, wherever necessary.
- 2.1.7 Costs of all tests necessary and/or directed for the compaction of the filling/back filling of site leveling works.

3.0 EXCAVATION AND BACK FILLING

- 3.1.1 Planking and strutting to retain the excavated sides and to protect the adjoining structures and services including removing the same.

- 3.1.2 Dewatering of accumulated water from any source till completion of all work below ground level including provision of surface drains, catchment pits, etc., wherever necessary.
- 3.1.3 Providing adequate protection for safety of labour, materials, adjoining property, services, structures and equipment and install barriers around the excavation area, foundation, trenches, pits and red lights during night time, engage night watchman for safety against risk or accident.
- 3.1.4 Stacking the excavated materials within the specified leads.
- 3.1.5 Forming (or leaving) suitable steps on the sides or/and providing adequate and stable side slopes in case of deep foundation or soft, loose or slushy soil and removal of steps after measurements.
- 3.1.6 Removing slips or falls in excavations.
- 3.1.7 Dressing and trimming to required level, profile and gradient.
- 3.1.8 Excavation to desired gradients in case of trenches.
- 3.1.9 Extra excavation beyond drawing/specification for necessary working space, for safety requirements and other allied works including back filling and compacting the same.
- 3.1.10 Removal of the surplus excavated earth, to the specified location as directed and leveling the same.
- 3.1.11 Filling with cement concrete (with stone aggregate) M5B and well rammed in position, all excavation taken down below the proper levels due to carelessness of the Contractor.
- 3.1.12 Sprinkling of sand and water over final bed and ramming the same before laying soling and concrete.
- 3.1.13 Filling/Back filling with excavated earth or from spoil heaps shall include the excavation/re-excavation from such sources all /re-handling and removing unwanted materials from the soil.
- 3.1.14 Compacting, leveling, watering, trimming to levels, profiles and gradient as per drawing, specification and/or as directed.
- 3.1.15 Cost of all tests, as specified and/or as directed for the filling/back filling works.

3.2 **TECHNICAL CLARIFICATION**

- 3.2.1 Location for disposal of surplus excavated materials will be decided at site during execution so as to avoid re-handling.
- 3.2.2 All kinds of soil shall mean ordinary, hard soil and soft/decomposed rock (including laterite) as per classification of soil mentioned in the Tech. Specification excepting hard rock to be paid under separate Item.

4.0 **CONCRETE (PLAIN AND REINFORCED)**

The rate of the respective item shall also include, but not limited to the following as described hereinafter in different Sub-Heads.

4.1 **CONCRETE**

- 4.1.1 Setting out all works from reference axes and bench marks.
- 4.1.2 Cleaning, washing and screening of aggregates whenever necessary.
- 4.1.3 Dewatering of all foundations and areas during concreting.
- 4.1.4 Cement slurry/cement mortar slurry at construction joints and cold joints.

- 4.1.5 Provision of Building paper and bearing plaster at bearing of slabs resting over walls.
- 4.1.6 All the appropriate provisions as stipulated in the specification of concrete chapter for materials, Design Mix, Preparatory works/surface preparation for concreting, facilities for checking, batching, mixing, transportation, placing and compaction of concrete, requirements in special cases of concreting, appropriate finishes to exposed surface, curing by appropriate means, all types of testing including hydraulic testing for Reservoirs, water tank etc. as directed.
- 4.1.7 Provision of construction joint (water bar excludes) and surface preparation of construction joint and cold joint, before placement of concrete.
- 4.1.8 Provision of chases, holes/openings as per drawing and grouting with cement mortar as directed.
- 4.1.9 Cleaning all anchor holes and keeping them, covered.
- 4.1.10 Protection of the structures/premises, foundations till final handing over and keeping the premises, basement, etc. dry.
- 4.1.11 The hacking or roughening the exposed surface to receive plaster or where it is to be joined with brick masonry wall.
- 4.1.12 Providing moulding, throating, drip course, etc. unless mentioned otherwise in Schedule of Item.

4.2 **REINFORCEMENT**

- 4.2.1 Cleaning and protection of reinforcements and decoiling and straightening of bars, if required.
- 4.2.2 Provision of chairs, spacer bars, incidental welding, spacer blocks, binding wires, etc.

QUALITY ASSURANCE PLAN (CIVIL)



**INDRADHANUSH GAS GRID LIMITED
NATURAL GAS PIPELINE GRID IN NORTH-EAST
(PHASE-II)**

**DESIGN BASIS
FOR
3 STAGE QUALITY ASSURANCE PLAN**

Doc. No.: MEC / 05 / 11 /23VD/ C / 000 / 0001

Prepared & Issued by



**CIVIL SECTION
MECON LIMITED
DELHI - 110 092**

Table of Contents

- 1.0 Introduction
- 2.0 General Guidelines for Quality Construction
- 3.0 Stages of Quality Assurance Plan
 - 3.1 Stage-1
 - 3.2 Stage-2
 - 3.3 Stage-3

1.0 INTRODUCTION:

M/s IGGL has awarded M/s MECON Limited project management consultancy (PMC) services for North-East Gas Grid pipeline Project for Phase-1 & Phase-2 pipeline. Phase-2 pipeline consists of construction of steel gas pipeline and terminal works along with associated facilities for mainlines at Guwahati-Panisagar pipeline (18"NB x 307.875 km approx.), Panisagar-Agartala Pipeline (12" NB x 117.866 km approx) & Panisagar-Aizawl Pipeline (12"NB x 126.715 km approx.) along with Shilong Spurline (12" NB x 22.135 km approx.), Silchar Spurline (12" NB x 56.310 km approx.) & NEEPCO Spurline. This pipeline shall pave the path for industrialization and development of CGD in North-East region.

The scope of work to be performed under this contract shall include complete civil works as per SOR, technical specifications and drawings.

The basic execution of the civil works shall be governed by the norms and requirements as per relevant IS Codes of Practice.

2.0 GENERAL GUIDELINES FOR QUALITY IN CONSTRUCTION

Quality Control QC

Quality is defined as 'fitness to purpose', i.e. in terms of Construction it is providing an appropriate quality for the purpose for which it is intended. The quality is also related to the timing i.e. when it is delivered.

Like most other aspects of construction management, Quality control has to be planned. Planning seeks 'order' and a quality control system for a construction project reflects this sense of order. It may be seen to be in three basic stages:

- Setting the quality standard.
- Planning how to achieve the required quality.
- Construct right employing proper construction methods, equipments, materials, personnel, workmanship, supervision and testing.

Quality Assurance QA

Quality assurance is a mechanism for ensuring that the construction process takes place within the framework of a quality management system. This suggests that quality assurance defines the tasks and duties for implementing quality management.

In general, the following guidelines shall be adhered to for achieving Quality Control and Quality Assurance:

1. Making sure that a set of documents viz. Drawings and Specifications are available at site.
2. Always carrying one small measuring tape, a notebook and pen / pencil at site.
3. Daily reaching site few minutes early to the start of actual construction activities.

4. Making yourself available at site during the closing hour and spend few more time after the workers have called it a day.
5. Ensuring the availability of construction water and power at site.
6. Checking of layout of whole complex and that of a particular unit before start of actual work.
7. Establishing of permanent benchmark & checking of levels at all important stages of construction.
8. Special attentions to ensure safety norms are followed at site.
9. Every evening identifying the areas where next day work needs to be carried out.
10. Ensuring proper arrangement of curing is made and personnel identified to do the job.
11. Every morning checking that work / curing envisaged the previous evening is being / has been carried out.
12. Regularly checking the availability of construction materials and making sure that availability of material is regular.
13. Checking adequate storage space and making arrangement for proper storage of materials, cement in particular.
14. Ensuring the incoming materials has been tested for the intended strength and quality. Accepting the materials only if found OK on physical inspection subject to final approval based upon lab test as required as per specification.
15. Ensuring that all activities carried out as per specification and established work schedule.
16. Checking of all measurements / dimensions of the various structural elements as per drawing before executing the works.
17. Maintenance of all the records in a proper way.
18. Sum up all the activities at site during the day in the form of a daily progress report which shall be forwarded to MECON at the end of the day/next day morning.
19. Always keeping client informed about the site developments by maintaining proper channels of communication.
20. Be cheerful, sportive and supportive.

3.0 STAGES OF QUALITY ASSURANCE PLAN

3.1 STAGE-1: Quality Assurance and Control Mechanism for Construction materials

- The Contractor shall propose details of all the Construction materials along with their source of procurement.
- The source of procurement of all the Construction materials shall have to be got approved by Engineer-in-charge.
- All the Construction materials shall have to be got approved by Engineer-in-charge after testing as per the Annexure-1 and 2 of **Site Quality Plan** (Appendix-1) to be witnessed by Engineer-in-charge as per Inspection Test Plan.
- All rejected Construction materials shall be identified by Engineer-in-charge and removed immediately from Site by the Contractor and a joint record in this regard shall be maintained.

3.2 STAGE-2: Quality of Construction, Job procedure and Test Plan to be adopted

- The Contractor shall carry out regular Quality checks by inspection/testing during job execution and prepare checklists for various Construction activities as per the

Annexure-3 and 4 of **Site Quality Plan** (Appendix-1) which shall be witnessed by Engineer-in-charge.

- The same shall have to be got approved by Engineer-in-charge.
- The Contractor shall execute all the routine construction activities as specified in Technical Specifications. Job Procedures may, however, be submitted for specialized activities which shall be got approved by Engineer-in-charge.
- The Contractor shall prepare Inspection Test Plans as per the format given in Annexure-4. The same shall be approved by Engineer-in-charge.

3.3 STAGE-3: Quality Assurance and Control Mechanism

- The Contractor shall carry out recording of workmanship/finish details as per the Annexure- 4 of **Site Quality Plan** (Appendix-1) which shall be witnessed by Engineer-in-charge.
- The same shall be approved by Engineer-in-charge.
- In case of any deficiency in Quality, the same shall be redone / rectified to the satisfaction of Engineer-in-charge without any additional cost.

QUALITY ASSURANCE & QUALITY CONTROL

SITE QUALITY PLAN

CIVIL ENGINEERING DIVISION



MECON LIMITED

**13th FLOOR, SCOPE MINAR, NORTH TOWER
LAXMI NAGAR, DISTRICT CENTRE,
DELHI-110 092**

	QUALITY ASSURANCE & QUALITY CONTROL (SITE QUALITY PLAN)	CIVIL ENGINEERING DIVISION MECON LIMITED, DELHI-110 092

ANNEXURE – 1 MATERIAL TESTS FOR SITES

SL. No	Component/ Operation and Description of test	Sampling plan with basis	Type of check	Instru- ment	Refer- ence docu- ment	Acceptance Norm	Format of Record	Testing agency	Remarks

A: MATERIALS									
1.0	COARSE AGGREGATE								
1.1	Specific Gravity, Density, Voids	To be done once per source or once for each mix design	Laboratory Test	Weigh balance, Oven, Jar	IS:2386 Part III, IS:456, IS:383			Package Contractor	These tests will be carried out while establishing design mix.
1.2	Sieve Analysis	One sample per 200 M ³ (or part thereof) or change of source whichever is earlier.	Field Laboratory Test	Sieve set & weigh balance	IS:2386 Part I, IS:383	As per requirement of design mix within the limits specified in relevant IS Codes.	L-04	-do-	Mandatory Site Test/OR RMC Manufacturer's Report for batch test is acceptable.
1.3	Deleterious Chemicals	To be done once per source	Lab Test	Balance Sieve & Container	IS:2386 Part II, IS:383 (for acceptance limits)			-do-	Test will be carried out while establishing mix design
1.4	Soundness	To be done once per source	-do-	Sieve Scales & Drying	IS:2386 Part V, IS:383			-do-	Test will be carried out while establishing mix design

	QUALITY ASSURANCE & QUALITY CONTROL (SITE QUALITY PLAN)	CIVIL ENGINEERING DIVISION MECON LIMITED, DELHI-110 092

ANNEXURE – 1 MATERIAL TESTS FOR SITES

SL. No	Component/ Operation and Description of test	Sampling plan with basis	Type of check	Instru- ment	Refer- ence docu- ment	Acceptance Norm	Format of Record	Testing agency	Remarks
				Oven	(for acceptance limits)				
1.5	Acid & Alkali Reactivity	To be done once per source	Lab Test	Weigh balance	IS:2386 Part VII, IS:383			-do-	Test will be carried out while establishing mix design
1.6	Flakiness	To be done once per source	-do-	-	IS:2386 Part-I, IS : 383			-do-	-do-
1.7	Bulk Density	To be done once per source or once for each mix design		Oven, Jar & Weigh balance	IS:2386			-do-	-do-
2.0	FINE AGGREGATE (TO BE USED FOR CONCRETE)								
2.1	Bulkage Moisture	One sample for pour greater than 50 m ³	Routine Measurement	Oven, Jar and weigh balance	IS : 2386 Part-III, IS : 383			-do-	Mandatory Site Test. Volume of sand and weight of water shall be adjusted as bulkage & moisture contents.
2.2	Sieve Analysis	One sample per 200 m3 (or part thereof) or change of source whichever is earlier.	Routine	Sieve Set, Weigh balance	IS : 2386 Part-I, IS : 383	As per requirement of design mix within the limits	L – 03	-do-	Mandatory Site Test.

	QUALITY ASSURANCE & QUALITY CONTROL (SITE QUALITY PLAN)	CIVIL ENGINEERING DIVISION MECON LIMITED, DELHI-110 092

ANNEXURE – 1 MATERIAL TESTS FOR SITES

SL. No	Component/ Operation and Description of test	Sampling plan with basis	Type of check	Instrument	Reference document	Acceptance Norm	Format of Record	Testing agency	Remarks
						specified in relevant IS Codes			
2.3	Particle Size and Shape	To be done once per source and to be repeated if source is changed	Routine	-do-	IS : 2386 Part-I, IS : 383	Particle size shall be maximum 4.75 mm. Grading shall be within the limits of grading zone – III for concrete work and for mortar and grout within the limits of grading zone III & IV.		-do-	To be carried out during mix design.
2.4	Deleterious Chemicals	-do-	-do-	Balance, sieve & Container	IS : 2386 Part-II, IS : 383			-do-	To be carried out during mix design.

	QUALITY ASSURANCE & QUALITY CONTROL (SITE QUALITY PLAN)	CIVIL ENGINEERING DIVISION MECON LIMITED, DELHI-110 092

ANNEXURE – 1 MATERIAL TESTS FOR SITES

SL. No	Component/ Operation and Description of test	Sampling plan with basis	Type of check	Instru- ment	Refer- ence docu- ment	Acceptance Norm	Format of Record	Testing agency	Remarks
2.5	Soundness	-do-	-do-	Sieve, Scales & Drying Oven	IS : 2386 Part-V, IS : 383 (for acceptance limit)		-	-do-	To be carried out during mix design.
2.6	Acid and Alkali Reactivity	To be done once per source and to be repeated if source is changed	-do-	Weigh Balance	IS : 2386 Part-VII, IS : 383		-	-do-	To be carried out during mix design.
2.7	Specific Gravity, Density, Voids	To be done once per source or once for each mix design	Measu rement	Weigh Balance	IS : 2386 Part-III				These tests will be carried out while establishing design mix.
2.8	Check Silt and Clay Content	Every 50M ³ (or part thereof)	Measu rement	Jar & Oven	IS : 2386 Part-II, IS : 383	Deleterious material not to exceed 5%	-		Mandatory Site Test

3.0	CEMENT								
3.1	Fineness	For each consignment of 100T (or part thereof).	Labora tory Test		IS : 4031, IS : 269, IS : 1489, IS : 456			Manufactur er/ OR Package Contractor	Manufacturer's certificate to be furnished.

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ANNEXURE – 1 MATERIAL TESTS FOR SITES

SL. No	Component/ Operation and Description of test	Sampling plan with basis	Type of check	Instru- ment	Refer- ence docu- ment	Acceptance Norm	Format of Record	Testing agency	Remarks
3.2	Normal consistency	-do-	Labora- tory Test	Vicat needle	IS : 4031, IS : 269, IS : 1489, IS : 456			Manufactur er/ OR Package Contractor	-do-
3.3	Initial and Final setting	-do-	Labora- tory Test	Vicat needle	IS : 4031, IS : 269, IS : 1489, IS : 456	Depending on the type of cement and as per relevant IS		Manufactur er/ OR Package Contractor	-do-
3.4	Soundness, Specific Gravity	-do-	Labora- tory Test		IS : 4031, IS : 269, IS : 1489, IS : 456			Manufactur er/ OR Package Contractor	-do-
4.0	CONCRETE								
4.1	Workability, Slump test	Once a day for each batching/ mixing plant	Measu rement		IS : 456, IS : 1199, Client's specificati on	Degree of workability adopted depending on the type of structure and type of compaction equipment.		Package Contractor	Mandatory Site Test

	QUALITY ASSURANCE & QUALITY CONTROL (SITE QUALITY PLAN)	CIVIL ENGINEERING DIVISION MECON LIMITED, DELHI-110 092

ANNEXURE – 1 MATERIAL TESTS FOR SITES

SL. No	Component/ Operation and Description of test	Sampling plan with basis	Type of check	Instru- ment	Refer- ence docu- ment	Acceptance Norm	Format of Record	Testing agency	Remarks
4.2	Crushing Strength	One set of 6 cubes of 150 cm. Size per 35 Cum. of concrete or part thereof for each grade of concrete per 8 hours of work or portion thereof.	Measu rement	Compressi on Test Machine	IS : 516, IS : 1199, IS : 456 and Client's specificati on	Shall be as per IS: 456		Package Contractor	Three specimens shall be tested at 7 days and remaining at 28 days. Mandatory Site Test.
4.3	Water Cement Ratio	At random at the time of batching	Measu rement	Visual observation	As per approved design mix			Package Contractor	
5.0	WATER								
5.1	Tests for ascertaining limits of solid	Once for each source of supply	-do-	Lab Test	IS : 3026 and Soil investigati on record.			Package Contractor	During mix design stage
5.2	Test of pH value	-do-	-do-	PH meter	IS : 456	PH value shall be less than 6.	Site log book		-do-
6.0	BRICK								

	QUALITY ASSURANCE & QUALITY CONTROL (SITE QUALITY PLAN)	CIVIL ENGINEERING DIVISION MECON LIMITED, DELHI-110 092

ANNEXURE – 1 MATERIAL TESTS FOR SITES

SL. No	Component/ Operation and Description of test	Sampling plan with basis	Type of check	Instrument	Reference document	Acceptance Norm	Format of Record	Testing agency	Remarks
6.1	Compressive Strength	<u>For designation 100,</u> Every 50,000 or part thereof. <u>For designation up to 75,</u> Every 100,000 or part thereof.	Compressive strength	Compression Testing Machine	IS: 1077	As per brick designation.			Mandatory Site Test
6.2	Shape, Size, Colour	-do-	Visual & measurement for size.		IS: 3495				Mandatory Site Test

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ANNEXURE – 1 MATERIAL TESTS FOR SITES

SL. No	Component/ Operation and Description of test	Sampling plan with basis	Type of check	Instru- ment	Refer- ence docu- ment	Acceptance Norm	Format of Record	Testing agency	Remarks
6.3	Water absorption and efflorescence	One test for each source of manufacturer and every lot of 200,000.	Lab Test		IS: 3495	Water absorption: a) after 24 hours not less than 20% by weight b) after 6 hours not less than 10% by weight. c) moderate degree of efflorescence			Lab Test Report shall be submitted by the contractor.
7.0	REINFORCEMENT STEEL								
7.1	Tensile Strength	(A). Every 20T or every consignment purchased by Package Contractor (B). For procurement of quantity less than 20T	Measu- rement	Universal Testing Machine	IS : 1608 IS : 2062 IS : 1786			Manufactur- er/OR Package Contractor -----	Manufacturer test certificate must be submitted Copy of Manufacturer's Test Certificate & Certificate No. to be mentioned in the invoice.
7.2	Bend Strength	-do-	-do-		IS: 1599			-do-	-do-

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ANNEXURE – 1 MATERIAL TESTS FOR SITES

SL. No	Component/ Operation and Description of test	Sampling plan with basis	Type of check	Instru- ment	Refer- ence docu- ment	Acceptance Norm	Format of Record	Testing agency	Remarks
7.3	Surface cracks, Rusts etc.	Random	Visual	Visual					
					IS: 73				Lab Test Report shall be submitted.

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ANNEXURE – 1 MATERIAL TESTS FOR SITES

SL. No	Component/ Operation and Description of test	Sampling plan with basis	Type of check	Instrument	Reference document	Acceptance Norm	Format of Record	Testing agency	Remarks

8.0	STORAGE OF MATERIALS								
8.1	Cement Storage	100%	Visual		IS: 4082	Covered storage. ❖ Clear gap of min. 15cm from the floor. ❖ Space of min. 45cm around the exterior wall. ❖ Stacking not more than 15 bags high arranged alternately lengthwise and crosswise.			

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ANNEXURE – 1 MATERIAL TESTS FOR SITES

SL. No	Component/ Operation and Description of test	Sampling plan with basis	Type of check	Instrument	Reference document	Acceptance Norm	Format of Record	Testing agency	Remarks
						❖ Width of the stack shall not be more than 3 meters			
8.2	Reinforcement Storage	100%	Visual		IS: 4082	Open storage. ❖ Bars of different classification , sizes and length will be stacked separately.			

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ANNEXURE – 1 MATERIAL TESTS FOR SITES

SL. No	Component/ Operation and Description of test	Sampling plan with basis	Type of check	Instrument	Reference document	Acceptance Norm	Format of Record	Testing agency	Remarks
8.3	Brick Storage	100%	Visual		IS: 4082	Open storage. ❖ Bricks shall be stacked on dry firm ground. ❖ Stacks shall be 50 bricks long and 10 bricks high. ❖ Bricks shall be placed on edge.			

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ANNEXURE – 1 MATERIAL TESTS FOR SITES

SL. No	Component/ Operation and Description of test	Sampling plan with basis	Type of check	Instrument	Reference document	Acceptance Norm	Format of Record	Testing agency	Remarks
8.4	Aggregates Storage	100%	Visual		IS: 4082	❖ Shall be stored at site on a dry ground/ platform of planks/ old corrugated iron sheets/ floor of bricks/ thin layer of lean concrete. ❖ Stacks of fine aggregate and coarse aggregate shall kept in separate stockpiles.			

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ANNEXURE – 1 MATERIAL TESTS FOR SITES

SL. No	Component/ Operation and Description of test	Sampling plan with basis	Type of check	Instru- ment	Refer- ence docu- ment	Acceptance Norm	Format of Record	Testing agency	Remarks
8.5	Other Bought Out Items	100%	Visual		IS: 4082	Covered storage/ OR open yard. Materials shall be stored as per manufacturer's specification.			

	QUALITY ASSURANCE & QUALITY CONTROL (SITE QUALITY PLAN)	CIVIL ENGINEERING DIVISION MECON LIMITED, DELHI-110 092

ANNEXURE – 2 TESTING EQUIPMENT FOR SITES

SL NO	BROAD CLASS	NOMENCLATURE DESCRIPTION	UTILITY	TEST PROCEDURE	REFERENCE DOCUMENT	TO BE AVAILABLE AT SITE
1.0	ROUTINE TEST LAB EQUIPMENT	1.1 Concrete Cube mould (150x150x150) mm	Concrete Cubes	-	IS : 10086	Yes
		1.2 Compressive strength Testing machine	Concrete Cube Test	Crushing strength of cube	IS : 2505	Yes
		1.3 Concrete slump cone	Workability Check	Drop in cone height of concrete	IS : 7320	Yes
		1.4 Coarse aggregate sieves	Sieve analysis	Sieving	IS : 383	Yes
		1.5 Soil Core cutter	To test compaction of soil	Core cut out of soil and density measured	IS : 2720	Yes
		1.6 Fine aggregate sieves	Sieve analysis	Sieving	IS : 383	Yes
2.0	DIMENSIONAL & ALLIED MEASURING EQUIPMENT	2.1 Total Station	Levelling, Distance, Angular Measurements, Coordinates	Measurement and recording		Yes
		2.2 Theodolite & levelling staff	Levelling and centre line marking and verticality measurement	Measurement and recording	-	Yes
		2.3 Measuring Tape	Dimension	-	-	Yes
		2.4 Laser Beam apparatus	Verticality of structures	Centre line alignment	-	Optional
3.0	PROCESS CONTROL ACCESSORIES	3.1 Oven	Material Drying for moisture control	Material to be kept for specific duration	-	Yes
		3.2 Physical balance	Weighing	-	-	Yes

	QUALITY ASSURANCE & QUALITY CONTROL (SITE QUALITY PLAN)	CIVIL ENGINEERING DIVISION MECON LIMITED, DELHI-110 092

ANNEXURE – 3 WORKMANSHIP CHECKS FOR DIFFERENT SITE ACTIVITIES

SL. No	Description of Site Activity	Workmanship Checks to be undertaken	Remarks
1	Earth work	(a) Classification of Soil, for payments, if required. (b) Line & level. (c) Disposal lead, for payments, if required. (d) Levelling at Disposal Yard, for payments, if required. (e) Initial & Final level in Level Book. (f) Rolling/Tamping/Compaction of Fills, as per IS : 2720 (g) Arrangement for de-watering. (h) Shoring & Strutting. (i) Safety (side slopes, ramps, working space around foundation, dumping at safe distance beyond top edge). (j) Excess excavation depth properly filled for foundation works. (k) Foundation bed level and ensure virgin hard surface.	

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ANNEXURE – 3 WORKMANSHIP CHECKS FOR DIFFERENT SITE ACTIVITIES

SL. No	Description of Site Activity	Workmanship Checks to be undertaken	Remarks
2	Concreting Works	(a) Check quality and size of coarse aggregate with special reference to undersize/oversize materials, disintegrated/self materials, earth and other foreign materials beyond limit, organic impurities. (b) Silt content, bulkage, foreign materials in sand and verify test report for fineness modulus. (c) Check formwork. (d) Line, level of concrete. (e) Honeycombed surface in concrete. (f) Strength of Concrete. (g) Check Mix Boxes. (h) Mixing of concrete by hand/machine. (i) Use of Vibrator. (j) Slump of concrete.	

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ANNEXURE – 3 WORKMANSHIP CHECKS FOR DIFFERENT SITE ACTIVITIES

SL. No	Description of Site Activity	Workmanship Checks to be undertaken	Remarks
3	Formwork	a) Line, level and dimensions as per drawing. b) Cross bracing of supporting framework. c) Diagonal bracings. d) Ground support rigidity to avoid settlement. e) Plumbness of shores. f) Wedge tightening of shores. g) Thickness of shutter to withstand pressure of wet concrete. h) Leakproofness of shutter (IS : 457) i) Demoulding agent/Oiling of shutter. j) Facility for removal of formwork in proper sequence. k) Avoid premature removal.	

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ANNEXURE – 3 WORKMANSHIP CHECKS FOR DIFFERENT SITE ACTIVITIES

SL. No	Description of Site Activity	Workmanship Checks to be undertaken	Remarks
4	Reinforced Concrete Works	a) Sieve analysis of coarse aggregate to check oversize, undersize, improperly graded aggregate. b) Check presence of disintegrated/soft or foreign materials in aggregates. c) Quality of sand, Silt content, Bulkage test. d) Quality of Cement and age of Cement (1 st in 1 st OUT system) e) Quality of water for mixing and curing. f) Slump test. g) Cube Tests. h) Cover Block thickness and integrity (cover not reduced more than 2mm or increased by more than 10mm). i) Whether reinforcement exposed on removal of forms. j) Physical verification of grade of steel reinforcement, as required. k) Gauge of binding wire and its use at all joints. l) Reinforcement placement as per drawing and top reinforcement to be supported by chairs etc.	

	QUALITY ASSURANCE & QUALITY CONTROL (SITE QUALITY PLAN)	CIVIL ENGINEERING DIVISION MECON LIMITED, DELHI-110 092

ANNEXURE – 3 WORKMANSHIP CHECKS FOR DIFFERENT SITE ACTIVITIES

SL. No	Description of Site Activity	Workmanship Checks to be undertaken	Remarks
		m) Spacing of laps and staggering and length of lap. n) Mix design record/requirements. o) Rigidity and evenness of centring & shuttering. p) Finish requirement of surface. q) Throating and moulding requirements as per drawings. r) Line and level requirements as per drawing. s) Expansion joint contraction, joint provisions. t) Fixing of inserts, conduits, bolts to proper alignment. u) Hacking of green concrete for future plastering. v) Adequate curing. w) Drainage provisions on roof surface (slope & spout) x) Gangway placement for concreting to be independent of reinforcement. y) Rigidity of reinforcement cage to avoid distortion during concreting	

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ANNEXURE – 3 WORKMANSHIP CHECKS FOR DIFFERENT SITE ACTIVITIES

SL. No	Description of Site Activity	Workmanship Checks to be undertaken	Remarks
		z) Compaction requirements of concrete by needle vibrators/Form vibrator etc. aa) Provisions at construction joint – Waterbar – Nozzles etc. bb) Provision of dowel bars 12mm $\rightarrow$ 300 long (400mm either side) at 250 C/C on construction joint surface.	

	QUALITY ASSURANCE & QUALITY CONTROL (SITE QUALITY PLAN)	CIVIL ENGINEERING DIVISION MECON LIMITED, DELHI-110 092

ANNEXURE – 3 WORKMANSHIP CHECKS FOR DIFFERENT SITE ACTIVITIES

SL. No	Description of Site Activity	Workmanship Checks to be undertaken	Remarks
5	Brickwork	(a) Quality of bricks for strength, dimensional accuracy, efflorescence water absorption and evenness of backing as per QAP. (b) Sand quality for fineness modulus and Silt content. (c) Cement quality. (d) Mixing of Mortar to structural space. (e) Thickness of joint not exceeding 10mm. (f) Raking of joints in green stage by raking tool (15mm deep) (g) Filling of vertical joints properly. (h) Soaking of bricks. (i) Line and level of brickwork. (j) Plumbness. (k) Brick corners are provided with proper brick closer not by brick bat.	

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ANNEXURE – 3 WORKMANSHIP CHECKS FOR DIFFERENT SITE ACTIVITIES

SL. No	Description of Site Activity	Workmanship Checks to be undertaken	Remarks
		(l) Type of scaffolding. (m) Filling of scaffolding potholes. (n) Brick courses are in level. (o) Proper bonding of main wall with cross wall (No toothing joints) (p) Brickwork taken-up in layers not exceeding 1 Metre. (q) Proper provision of reinforcement in brick-wall. (r) Lateral bonding of brick-wall to steel/concrete columns. (s) Filling-up voids between brick –wall and door/windows shutter. (t) Adequate curing of brickwork.	

	QUALITY ASSURANCE & QUALITY CONTROL (SITE QUALITY PLAN)	CIVIL ENGINEERING DIVISION MECON LIMITED, DELHI-110 092

ANNEXURE – 3 WORKMANSHIP CHECKS FOR DIFFERENT SITE ACTIVITIES

SL. No	Description of Site Activity	Workmanship Checks to be undertaken	Remarks
6	Flooring Work		
6.1	Cement Concrete Floor	(a) Aggregates, Sand – refer PCC Works. (b) Strength. (c) Thickness. (d) Hardener type and mix. (e) Panel size. (f) Curing arrangement. (g) Polishing requirement.	

	QUALITY ASSURANCE & QUALITY CONTROL (SITE QUALITY PLAN)	CIVIL ENGINEERING DIVISION MECON LIMITED, DELHI-110 092

ANNEXURE – 3 WORKMANSHIP CHECKS FOR DIFFERENT SITE ACTIVITIES

SL. No	Description of Site Activity	Workmanship Checks to be undertaken	Remarks
7	Painting Work	(a) Name of Manufacturer, Specification, Batch Number, Colour, Date of Manufacture, ISI Marking on Paint Container. (b) Cracks, voids, pores on masonry surface properly filled. (c) Soundness and adherence of Old Paint. (d) Paint quality (No. adulteration by thinner) and quality of Primer. (e) Application of each coat of Paint for uniformity, paint drop, dabs, brush-marks, waves and variation of colour. (f) Difficult to reach areas like edges, corners, nuts, bolts etc. are properly painted. (g) Spilled Paints on floors & walls properly cleaned. (h) Painting of fan hooks and exposed surfaces of inserts as per Specification.	



QUALITY ASSURANCE & QUALITY CONTROL (SITE QUALITY PLAN)

CIVIL ENGINEERING DIVISION
MECON LIMITED, DELHI-110 092

ANNEXURE – 4 FORMATS FOR SITE RECORDS

A) INSPECTION TEST PLAN

1. INSPECTION TEST PLAN FOR EARTHWORK IN EXCAVATION
2. INSPECTION TEST PLAN FOR RCC WORKS
3. INSPECTION TEST PLAN FOR BRICK MASONRY WORKS

B) INSPECTION REPORTS/REGISTER

1. INSPECTION REPORT FOR EXCAVATION
2. SEIVE ANALYSIS FOR FINE AGGREGATE
3. SEIVE ANALYSIS FOR COARSE AGGREGATE
4. SLUMP TEST REPORT
5. INSPECTION REPORT FOR REINFORCEMENT BBS
6. ANTI TERMITE TREATMENT CHEMICAL APPLICATION CHECKLIST
7. INSPECTION REPORT FOR CONCRETING
8. TEST REPORT FOR BRICKS
9. INSPECTION REPORT FOR BRICK MASONRY
10. INSPECTION REPORT FOR PLASTERING
11. INSPECTION REPORT FOR PAINTING
12. CUBE TEST REGISTER
13. CEMENT STOCK REGISTER
14. STEEL CONSUMPTION REGISTER
15. LEVEL BOOK
16. MATERIAL TEST REGISTER
17. HINDRANCE REGISTER
18. SITE ORDER BOOK
19. MEASUREMENT SHEET



INSPECTION TEST PLAN FOR
EARTH WORK IN EXCAVATION

SAMPLE

CLIENT:IGGL
CONSULTANT : MECON LIMITED
CONTRACTOR:
DOCUMENT NO:

S.No	ACTIVITY	FREQUENCY OF INSPECTION		REMARKS
		CONTRACTOR	IGGL/ EIC	
1	Ground Levels	W	RM	
2	Final levels verification	W	RM	
3	Water table Record	W	RM	

LEGEND:

A - Approval H - Hold Point W - Witness Point R - Review Documents RM - Random Inspection

FOR CONTRACTOR	FOR Engineer-in-charge
SIGN	
NAME	
DATE	



**IGGL
ITP
FOR RCC WORK**

CLIENT:IGGL
Consultant : MECON LIMITED
Contractor :
DOCUMENT NO:

Job Id:
Doc. Id:
Rev:

SAMPLE

INSPECTION AND TEST PLAN FOR RCC WORK

Sr. No.	Activity	Frequency of Inspection/ Testing	Inspection Category	
			Contractor	IGGL/ EIC
1	Approval of Materials, cement, Reinforcement steel, anchor bolts, Insert plates.	At the beginning	H	AP
2	Design of concrete mix	Every work	P	AP
3	Pour card	At the beginning	P	AP
4	Checking of Lines, level, plumb of form work / shuttering	Every work	P	RM
5	Checking of Placing, binding, fixing of reinforcement steel	Every work	P	W
6	Inserts, Anchor bolts conduit fixing	Every work	P	RM
7	Expansion/ construction joints, Grouting, pockets, opening if any	Every work	P	RM
8	Slump/ workability of concrete	Every work	P	RM
9	compaction of Concrete	Every work	P	RM
10	Taking slump cubes	Every work	P	RM
11	Cube testing	Every work	P	W
12	Curing of concrete	Every work	P	RM

Legend

P	Perform	R	Review of Reports
H	Hold Point	AP	Approval
W	Witness		
RM	Random		

	For Contractor	For Engineer-in-charge
NAME:		
SIGN:		
DATE:		



**IGGL
ITP
FOR BRICK MASONRY**

SAMPLE

Report No.
Date:
Location:

CLIENT:IGGL
Consultant : MECON LIMITED
Contractor :
DOCUMENT NO:

INSPECTION AND TEST PLAN FOR BRICK MASONRY

Sr. No.	Activity	Inspection by contractor	Verification by IGGL/ EIC	Record to be submitted by contractor
1	Check dimensions & strength of bricks where brickwork is to be carried out. Quality of brick as per IS 1077 Testing as per IS 5454.Approved by IGGL/ EIC.	W	W	Lab testing report of brick & sand.
2	Check mixing of mortar	W	RM	Test certificate of cement
3	Check whether bricks are thoroughly soaked	W	RM	
4	Check during laying of bricks, level plumb and joint thickness	W	RM	
5	Check embedment of fixtures	W	RM	
6	Curing	W	RM	
7	Reinforcement provided	W	W	
8	Raking of joint & keys of brick	W	RM	
9	Check if scaffolding/ staging is properly erected or not	W	RM	
10	Check for safety	W	RM	Scaffolding safe for use

Legend

R Review of document
RM Random Inspection
W Witness

I Implementation
H Hold

	For Contractor	For Engineer-in-charge
NAME:		
SIGN:		
DATE:		



INSPECTION REPORT FOR EXCAVATION

REPORT NO:

DATE:

DOCUMENT NO:

REMARKS

FOR Engineer-in-charge

DATE _____



IGGL

SIEVE ANALYSIS OF SAND/FINE AGGREGATES

Client : IGGL

Name of the Work :

Consultant : MECON LIMITED

Report No.

Contractor :

Date

DOC. NO. :

Contractor : _____

Report No. : _____

Date of Testing: _____

Sampled By : _____

Weight of Sample : _____

IS SIEVE SIZE	WEIGHT RETAINED (gms)	% WEIGHT RETAINED	CUMULATIVE % RETAINED	CUMULATIVE % PASSING	GRADING ZONE, % PASSING AS PER IS 383-1970
10 mm					100
4.75mm					90-100
2.36 mm					75-100
1.18 mm					55-90
600 micron					35-59
300 micron					8-30
150 micron					0-10

RESULTS : Conform to grading zone

FOR CONTRACTOR	FOR IGGL/EIC
SIGN	
NAME	
DATE	



IGGL

Client : IGGL

Consultant : MECON LIMITED

Report No.

Contractor :

Date

DOC. NO. :

SIEVE ANALYSIS FOR STONE AGGREGATES

For 20 mm nominal size graded aggregate

Contractor:

Report No.:

Date of Testing:

Sampled by :

Weight of Sample :

IS SIEVE	WEIGHT RETAINED gms	% WEIGHT RETAINED	CUMULATIVE % RETAINED	CUMULATIVE % PASSING	% Passing as per Mix design or IS 383 - 1970
40 mm					100
20mm					95-100
10mm					25-35
4.75mm					0-10

RESULTS :

	FOR CONTRACTOR	FOR IGGL/EIC
SIGN		
NAME		
DATE		



MECON LIMITED, DELHI



SLUMP TEST

Owner : IGGL
Consultant : MECON LIMITED
Contractor :

Date :

Date	Item of Work and Location	Mix Nominal or Design	Vibrator Used Yes / No	Water / Bag of Cement (Ltr.)	Height of Specimen after Mould Removed (mm)			Acceptability (mm)	Slump (mm)
					Sample - I	Sample - II	Sample - III		

CONTRACTOR

FOR IGGL/EIC



IGGL

INSPECTION REPORT FOR REINFORCEMENT BBS

CLIENT :IGGL
CONSULTANT : MECON LIMITED.
CONTRACTOR:
DOCUMENT NO:
BBS NO:
Location / Type of Structure:
Drawing No.:

REPORT NO.:

DATE

Sl.No.	Description	Bar Dia	Shape of Bar	Cut Length (m)	Total No. of Bar	Total Length (m)	Unit Weight (kg/m)	Total Weight in kg.						Remarks
								8mm	10mm	12mm	16mm	20mm	25mm	

SAMPLE

FOR CONTRACTOR

FOR IGGL/EIC

SIGN

SIGN

NAME

NAME

DATE

DATE



IGGL

Anti Termite Treatment Chemicals application checklist

Client : IGGL

Name of Work:

Consultant : MECON LIMITED

Report No.

Contractor :

DATE

S. No.	Description of Item	Qty required theoretically	Oty used	Prepared by	Checked by	Verified by
1	For bottom surface and sides of excavation upto height of 300 mm for cloumn pits, walls, trenches and basements	5 litres/ sqm of surface area				
2	Backfill around columns and walls	15 litres/ sqm of vertical surface				
3	Rodding of earth @150 mm centres close to the wall surface	5 litres/ sqm of surface area				
4	Top surface of plinth filling to mm to 75 mm deep @ 150 mm centres with chemical emulsion	5 litres/ sqm of surface area				

	FOR CONTRACTOR	FOR IGGL/EIC
Signature		
Name		
Date		



IGGL



INSPECTION REPORT FOR CONCRETING

NAME OF THE PROJECT:

PURCHASE ORDER NO:

CLIENT:

CONSULTANT:

CONTRACTOR:

CONCRETE POUR CARD

Date :	Time :	Location :		Mix used :
SL. No.	Description	Contractor	IGGL/EIC	Remark
1	Alignment			
2	Level			
3	Plumb			
4	Shuttering			
5	Reinforcement			
6	Concrete quantity			
7	Theoretical cement consumption			
8	Availability of material at site			
	I) Cement			
	II) Sand			
	III) Metal no. 1			
	IV) Metal No. 2			
	V) Water			
9	SIR content in sand			
10	% Bulkage in sand			
11	Others			

Whether passed for construction YES/NO

Remarks if any:.....

Contractor

FOR IGGL/EIC



IGGL
BRICK TEST REPORT



Client :IGGL
Consultant : MECON LIMITED
Contractor :

Report No.
Date:

TEST REPORT

Sr. No.	Description	Observation	Requirement
1	Compressive Strength		(75 Kg/Cm2)
a)			
b)			
c)			
d)			
e)			
2	Water Absorption %		20 % Max
a)			
b)			
c)			
d)			
e)			
3	Efflorescence		Nil to moderate
a)			
b)			
c)			
d)			
e)			
	For Contractor	FOR IGGL/EIC	
NAME:			
SIGN:			
DATE:			



IGGL
INSPECTION REPORT
FOR BRICK MASONRY



CLIENT:IGGL

Consultant : MECON LIMITED

Contractor :

Date:

Location:

Bottom Level:

Top Level:

Sr. No.	Description	Observation	Remarks
1	a) Size of bricks	SAMPLE	
	b) Water absorption		
	c) Strength of brick		
	d) Efflorescence		
	e) Soaking of brick		
	f) Mortar ratio		
2	Type of brick work		
	a) One or more brick thickness		
	b) Half brick thickness		
3	MS reinforced bars used in half brick thickness		
4	Thickness of mortar		
5	Gradation of sand		
6	Slit Content		
7	DPC		

	For Contractor	FOR IGGL/EIC
NAME:		
SIGN:		
DATE:		



IGGL



INSPECTION REPORT
PLASTERING

Client : IGGL

Consultant : MECON LIMITED

Contractor :

Report No.

Date:

SAMPLE

Location:

Sr. No.	Description	Observation	Remarks
1	Cleaning of Area of Plastering		
2	Ratio of Cement Mortar		
3	Staging / Scaffolding		
4	Thickness of Plastering Plum & True Level		
5	Fixing of 24 SWG Chicken wire mesh		
6	Cement Sand & Water Proofing Compound		
7	Curing		

	CONTRACTOR	FOR IGGL/EIC
NAME:		
SIGN:		
DATE:		



IGGL

INSPECTION REPORT

WHITE WASHING , COLOUR WASHING, DISTEMPERING, PAINTING & POLISHING

CLIENT:IGGL
Consultant : MECON LIMITED
Contractor :

Report No.
Date:

Location:

Sr. No.	Description	Observation	Remarks
1	Area of White washing / Painting		
2	Material used		
3	Evenness of Surface		
4	1st Coat Completion		
5	2nd Coat Completion		
6	Cleaning of surface of doors, Windows / Floor etc.		

SAMPLE

	CONTRACTOR	FOR IGGL/EIC
NAME:		
SIGN:		
DATE:		

**PURCHASE ORDER NO:****CLIENT:****CONSULTANT:****CONTRACTOR:**[illegible]



CONTRACTOR:

[illegible]



IGGL
STEEL REGISTER / CONSUMPTION STATEMENT



NAME OF THE PROJECT:

PURCHASE ORDER NO:

CLIENT:

CONSULTANT:

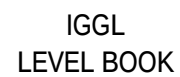
CONTRACTOR:

DATE OF RECEIPT	SOURCE & INVOICE	QTY. RECEIVED									QTY. CONSUMED AS PER RA BILL NO. 1									REMARKS
		6 MM	8 MM	10 MM	12 MM	16 MM	20 MM	25 MM	32 MM		6 MM	8 MM	10 MM	12 MM	16 MM	20 MM	25 MM	32 MM		
* CARRIED FROWARD FROM																				
RA BILL NO.																				
TOTAL (MT)																				

BALANCE QTY. AS PER RA BILL NO.

	6 MM	8 MM	10 MM	12 MM	16 MM	20 MM	25 MM	32 MM					
(MT)													

* Previous RA bills receipt and consumption to be recorded as carried forward



PURCHASE ORDER NO:

CLIENT:

CONSULTANT:

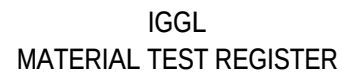
CONTRACTOR:

NEAR:

FOR THE

PROJECT:

[illegible]



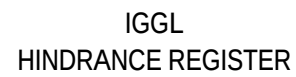
PURCHASE ORDER NO:

CLIENT:

CONSULTANT:

CONTRACTOR:

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PERIOD OF COMPLETION

[illegible]



ANNEXURE-II TO PARTICULAR JOB SPECIFICATION

Structural Works

PARTICULAR JOB SPECIFICATION

STRUCTURAL STEEL WORKS

	OIL & GAS SBU	LAYING & CONSTRUCTION OF STEEL GAS PIPELINE FOR LAST MILE CONNECTIVITY INSIDE NRL UNDER NEGG SEC-1 (GNPL) PROJECT OF M/s IGGL	 MECON LTD, DELHI
TITLE	APPENDIX TO PJS	Structural Steel Works Works	Page 1 of 1 REVISION 0

SCOPE OF WORK FOR STRUCTURAL STEEL WORKS

- 1.0** This Specification shall apply to supply, fabrication and erection of steel structures in Terminal & laying works and general structural work.

The steel structures shall consist of but not limited to pipe supports, overhead pipe trestle supports (road crossing & others if required as per site condition), portals, crossover structure, platforms, walkway structure, stairs, handrails, chequered plate, grating, or any other miscellaneous structures, including modification of existing approach walkway platforms (if required as per site condition), for completion works, etc.

This Specification covers the structural steel work mainly mentioned below. The structural work shall not be limited to the following description but shall be guided by technical/ technological aspects for the total scope of work.

Brief description of major works under the item is as follows:

1.1 Supply, Fabrication and Erection of steel structural works.

Brief description of major items are as follows:

- Supply, Fabrication and erection of pipe supports, overhead pipe trestle supports (road crossing & others if required as per site condition), portals, crossover structure, platforms, walkway structure, stairs, handrails, chequered plate, grating, or any other miscellaneous structures as required for completion works, etc. fabricated from rolled Steel section and built-up section conforming to IS:2062 and pipes conforming to IS:1161, as per requirement.
- Painting of steel structure as per specification and drawing.
- Steel structural works shall be fabricated and erected as per detailed construction drawings to be issued to the successful tenderer.
- Modification of existing approach walkway platforms, if required as per site condition, to be done as per site requirement and as per direction of Engineer-in-Charge.

The cost & weight of MS bolts (permanent and service), washers, electrodes, putty, gases, cost of straightening the raw materials, cutting of flats from plates and providing splices, paints, tools, plants, electric power, water, other consumables, as required for the work shall be deemed to be included in the quoted rates.

All handling and transport charges of raw materials and fabricated structures including double handling, as required, for completion of work in accordance with time schedule, are deemed to be included in the quoted rates.

SECTION VII

SCHEDULE OF RATES / BOQ

Attached Separately