

**GUJARAT ENERGY TRANSMISSION CORPORATION LTD  
TRANSMISSION CIRCLE  
HIMATNAGAR**



**TECHNICAL BID**

**Tender NO: 2026-27/HTC /27**

**Sub: Work of erection of 66KV equipment, structures, control wiring, yard Lighting, Control-Room & Staff-Quarter Electrification etc at 66 KV Hathrol Sub Sation with Mesh earthing and furniture & 66 KV Hathrol LILO line from existing 66 kV Rupal-Punsari line.**

**Note: Submit ALL Document Online Only**



**Transmission Circle office, 66KV Himatnagar-1 Substation Compound,  
Nr. Motipura Circle, N H -8, Motipura,  
Himatnagar-383 001**

Web site: [www.getcogujarat.com](http://www.getcogujarat.com) Email: [setrhmt.getco@gebmail.com](mailto:setrhmt.getco@gebmail.com)

**TENDER NOTICE No: 2026-27/HTC/27**

SE, Himatnagar invites "On line Tenders" (e-tendering) for the "Work of erection of 66KV equipment, structures, control wiring, yard Lighting, Control-Room & Staff-Quarter Electrification etc at 66 KV Hathrol Sub Sation with Mesh earthing and furniture & 66 KV Hathrol LILO line from existing 66 kV Rupal-Punsari line." From registered Contractors in appropriate class with GETCO / Central / State Government / Railway/Semi. Govt. and who has executed civil works successfully as mentioned in Qualification requirement criteria given in the tender document. Bidders should fulfill all the qualification criteria. Otherwise their bids will not be considered & price bid will not be opened. All the bidders should have valid e-tender vender registration.

Tender Papers & Specifications may be downloaded from Web site as <https://getco.nprocure.com> (For view, download and on-line submission) and GUVNL / GETCO web sites [www.gseb.com](http://www.gseb.com) & [www.getcogujarat.com](http://www.getcogujarat.com) (For view & download only). All tender documents are to be upload (Notarized / self-attested copies of original – as specified in tender document) through online only (mandatory) on (n) procure portal. Tender fee, EMD and Integrity Pact are to be submitted Online only. Circle Office Address is **The Superintending Engineer, Gujarat Energy Transmission Corporation Limited, Circle Office, 66KV Himatnagar-1 Substation Compound, Nr. Motipura Circle, N H -8, Motipura, Himatnagar-383 001** (refer last page for reference).

"NO COURIER SERVICE OR HAND DELIVERY" will be allowed

1	Tender Notice No.:	2026-27/HTC/
2	Name of work	Work of erection of 66KV equipment, structures, control wiring, yard Lighting, Control-Room & Staff-Quarter Electrification etc at 66 KV Hathrol Sub Sation with Mesh earthing and furniture & 66 KV Hathrol LILO line from existing 66 kV Rupal-Punsari line
3	Tender Fee (non-refundable)	₹ 1180.00 (Rs:1000.00 +Rs:180 Including GST @ 18%)- <b>Payment of Tender Fees will be accepted through RTGS / NEFT/Online line mode only)</b>
4	Estimated cost Including GST	<b>Total Cost: ₹ 3944588.00</b>
5	Earnest Money Deposit (EMD) amount	<b>₹ 39,445.00 Payment of EMD will be accepted through RTGS / NEFT Online mode only)</b>
6	Time Limit	90 Days
7	On line (E-tendering) tender/ offer submission last date up to 16.00 hours only (This is mandatory)	<b>30-07-2026</b>
8	Date of opening of Tender fee, EMD cover, Vendor registration and technical bid – opening at 16.05 Hours.	<b>30-07-2026</b>
9	Tentative Date of on – line opening of Price bid, (if possible), at 11.00 Hours	<b>Shall be intimated separately</b>
10	Important Note	<b>1)Tender Fees and EMD paid other than RTGS/NEFT/online mode will be rejected and bidder will be disqualified. (2)Without submitting the On Line tender, In such cases, THE TENDER FEES WILL NOT BE REFUNDED.</b>

**IMPORTANT:**

- (A) All the online Annexures i.e. Annexure - 1 to 8 and price bid, other tender documents (refer Table-A) **must be submitted/attached** through online form only.

- (B) Bidder has to upload scanned copies of original (Notarized / self-attested copies of original – as specified in tender document) documents with bid and **no physical documents to be submitted by bidder.**
- (C) Suitable payment option can be selected for Tender fees & EMD. Amount should be paid either by **Online-payment, RTGS/NEFT or Banker's Cheque. Payment of Tender Fees & EMD by RTGS/NEFT/on line shall be encouraged. In case of payment through RTGS/NEFT bidder has to mail following details:**

Sr. No	Required Details
1	Name & Address of the bidder
2	Bidder GST No
3	Tender No with due date
4	Mode of Transfer
5	Ref. ID with Bank Details
6	Paid Amount
7	Payment against (Tender Fee / EMD)

To:

- a. [setrhmt.getco@gebmail.com](mailto:setrhmt.getco@gebmail.com)  
b. [decmhmt.getco@gebmail.com](mailto:decmhmt.getco@gebmail.com)  
c. [detech1hmt.getco@gebmail.com](mailto:detech1hmt.getco@gebmail.com)  
d. [aohmt.getco@gebmail.com](mailto:aohmt.getco@gebmail.com)

**Bidder has to provide all above details on the same date of payment so that receipt can be generated.**

❖ **GETCO Beneficiary Bank detail is as under:**

1	Name of Bank	BANK OF BARODA
2	Name of Branch	HIMATNAGAR
3	Branch Code	8407
4	MICR Code	383012006
5	IFSC Code	BARB0VJHIMM (5th Digit in IFSC code Is ZERO)
6	Name of Account	THE SUPERITENDING ENGINEER, GUJARAT ENERGY TRANSMISSION CORPORATION LTD
7	Account No.	84070200001468
8	GST No	24AABCG4029R2ZC

- (D) In case short submission of documents with bid and / or clarification if any required from the bidder, the required details / documents may be asked from bidder in physical form.
- (E) It shall be sole responsibility of the bidder that the uploaded scanned documents (in PDF form) remain legible and should not be password protected.
- (F) All the relevant scanned documents as per requirement of the tender are to be upload through online only on n procure portal. Tender will be evaluated on basis of Data / Details / Documents submitted by online form only.
- (G) It is mandatory for all the bidders to upload their tender documents by on line only (E-tendering) in scheduled time. No documents shall be considered physically which are mentioned for on-line submission only.**
- (H) The bidders are required to fill up all the online annexure / forms (word file attached) and shall be uploaded invariably. This is intended for transparency and speedy evaluation of the bids. Instead of simply confirming / attached in bid / refer physical offer, the Bidder shall fill in the particulars against appropriate place in respect of each line appearing in each online annexure. Wherever required, bidder shall invariably have to upload supporting authentic documents in the online bid. (In the absence of required details in the online annexure, the purchaser has every right to evaluate the bids accordingly and bidder cannot raise any objection against any point during evaluation.)
- (I) Bidders are requested to remain in touch with the web-site for any amendment / corrigendum or extension of due date etc
- (J) The Earnest Money Deposit and tender fee will be accepted by RTGS/NEFT/ONLINE Mode Only.
- (K) The GETCO reserves the right to award the work to one or more bidders, considering their technical and financial capacity OR to reject any or all tenders or accept any tender without assigning any reason thereof.

Any technical questions, information and clarifications that may be required pertaining to this enquiry should be referred to: **The Superintending Engineer, Gujarat Energy Transmission Corporation Limited, Circle Office, 66KV**

**Himatnagar-1 Substation Compound, Nr. Motipura Circle, N H -8, Motipura, Himatnagar-383 001**

GETCO reserves the right to reject any OR all tenders without assigning any reasons thereof.

**Superintending Engineer,  
HIMATNAGAR.**

To view the PDF file please use "Acrobat Reader" software which can be downloaded from "Adobe" website.

**In case bidder needs any difficulty in accessing / submission of on line bid / clarification or if training required for participating in online tender, they can contact the following office:**

(n) Procure Cell, (n) code solutions-A division of GNFC Ltd.,  
403, GNFC Info tower, S.G. Road,  
Bodakdev Ahmedabad – 380054 (Gujarat)  
Toll Free: 1-800-233-1010 (Ext. 501, 512, 516, 517, 525),  
Phone No. 079-26857315 / 316 / 317,  
Fax: 079-26857321 / 40007533, Email: [nprocure@gnvfc.net](mailto:nprocure@gnvfc.net)

## CHECK LIST OF DOCUMENTS SUBMISSION

TABLE-A		
Mandatory to upload on-line only (pdf file)		
No.	Particulars	Check Mark
1	Scan of RTGS/NEFT of Tender Fee Amount / Online payment receipt	
2	Scan of RTGS/NEFT of EMD Amount / Online payment receipt	
3	Registration document as Approved Contractor in Appropriate Class	
4	Work completion certificate in Form No.3A (Experience Certificate as Main contractor) only as Per Qualification Requirement	
5	Bank Solvency Certificate	
6	Provident Fund Code Number Documents	
7	GST Registration Number Documents	
8	Income Tax Return, Profit Loss Accounts and Balance sheet of Last Three Financial Years (Self attested or CA Certified)	
9	Nature of Firm:	
	Partnership deed/Latest Form-G/ POA/Authorized Signatory Certificate for Partnership	
	Self-Affidavit/POA/Authorized Signatory Certificate for Proprietorship	
10	PAN Number Document	
11	Electrical Contractor's License with latest validation	
12	Certificate of Registration as "Approved Vender" with GETCO (erstwhile GEB) OR Certificate of Authorized dealer of approved manufacturers along with certificate of registration of the original manufacturer with GETCO	
13	Filling Annexure 1 to 8 & other undertaking.	
14	Bank Cancel Cheque Submit for Refund of EMD Amount	

### Scope of Work

1. The Scope of the proposal shall be on the basis of a single Bidder's responsibility, completely covering all the services specified under the accompanying Technical Specifications.  
The Bidder shall complete all the schedules & annexure in the Bid Proposal Sheets, technical Data Sheets and specified elsewhere. The scope of work is [Work of erection of 66KV equipment, structures, control wiring, yard Lighting, Control-Room & Staff-Quarter Electrification etc at 66 KV Hathrol Sub Sation with Mesh earthing and furniture & 66 KV Hathrol LILO line from existing 66 kV Rupal-Punsari line](#) as per standard specification and standard practice of GETCO and as per EIC.
2. The above work shall be done as per GETCO's approved drawing/layout.
3. Necessary field quality plan of GETCO shall be implemented and necessary documentation shall also be maintained as per GETCO's norms and instruction of EIC. If required field quality plan shall be available at field offices.
4. During the work of erection of feeder bay/transformer bay safety check list shall be followed. Necessary check list will be available at our field office.
5. Successful bidder has to appoint site Engineer to maintained site register & FQP as per ISO.
6. All work should be done accordingly to ISO & FQP and all require documents including Filled FQP, testing results etc. should be submitted while handing over the completed work.
7. The quantity mentioned in price bid is tentative and may vary in actual work order.

**GUJARAT ENERGY TRANSMISSION CORPORATION LIMITED  
HIMATNAGAR**

**INTEGRITY PACT**

**OUR ENEAVOUR**

**Tender Notice No.: 2026-27 / HTC / 27**

**Name of Work: Work of erection of 66KV equipment, structures, control wiring, yard Lighting, Control-Room & Staff-Quarter Electrification etc at 66 KV Hathrol Sub Sation with Mesh earthing and furniture & 66 KV Hathrol LILO line from existing 66 kV Rupal-Punsari line.**

To create environment where Business Confidence is built through Best Business Practices and is fostered in an atmosphere of trust and respect between providers of goods and services and their users for the ultimate benefit of society the nation.

**GETCO COMMITMENT**

- To maintain the highest ethical standards in business and professional.
- Ensure maximum transparency to the Satisfaction of stakeholders.
- To ensure to fulfill the terms of agreement / contract and to consider objectively the viewpoint of parties.
- To ensure regular and timely release of payment on due dates for work done.
- To ensure that no improper demand is made by employees or by anyone on our behalf.
- To give maximum possible assistance to all the vendors / supplier / Service provider and other to enable them to complete the contract in time.
- To provide all information to suppliers / contractors relating to contract / job which facilitate him to complete the contract / job successfully in time.
- To ensure minimum hurdles to vendors / suppliers / contractors in complete of
- agreement / contract / work order.

**PARTY'S COMMITMENT**

- Not to bring pressure / recommendations outside GETCO to influence its decision.
- Not to use intimidation, threat, inducement or Pressure of any kind on GETCO or any of its employees under any circumstances.
- To be prompt and reasonable in fulfilling the contract, agreement, legal obligations.
- To provide goods and / or services timely as per agreed quality and specifications at minimum cost of GETCO.
- To abide by the general discipline to be maintained in out dealings.
- To be true and honest in furnishing information including payment to agents / sub-agent.
- Not to divulge any information, business details available during the course of business relationship to others without the written consent of GETCO.
- Not to enter into carter / syndicate / understanding whether formal / non-formal so as to influence the price.

\_\_\_\_\_  
**Seal & Signature  
(GETCO Authorized Signatory)**

Name:

Designation:

\_\_\_\_\_  
**Seal & Signature  
(Party's Authorized Person)**

## PART-I – ITB

### INSTRUCTIONS TO BIDDERS

#### A. INTRODUCTION

##### 1.0 General Particulars

1.1 The Gujarat Energy Transmission Corporation Ltd. Baroda hereinafter called 'OWNER' or 'GETCO' intends to receive bids for erection of structures and all equipment including earthing installation in 66KV Vavol SS as detailed in the accompanying specifications in accordance with Terms and Conditions herein. The bids shall be prepared and furnished as per these Instructions.

##### 2.0 **Qualification Requirement (All Document Submit Online Only)**

1 **Registration:** Bidder shall be registered contractor of GETCO.

2 **Experience:** Bidder shall have executed minimum 01 no 66KV or higher class Substation with State or central transmission utility or major industries or 3 nos of 66KV bays i.e Transformer/Feeder bays at same or different location. Substation include minimum two no's of feeders bays ,one no's of transformer bay,

**AND**

Minimum 3 KM line erection work in last three financial year.

3. **Solvency:** Latest bank solvency certificate from any Nationalized/Scheduled Bank of a sum of minimum 20 % of the estimated cost shown in the tender.

4 **Provident Fund Code:** Separate provident fund code number towards firm registered with Regional P. F. Commissioner.

5 **Financial Statement:** The Bidder should submit certified photocopy of audited financial statement i.e. Balance sheet with profit and loss account of last three Years. In case, audit is not mandatory, bidder should submit Self attested or CA Certified photocopy of financial statements i.e. Balance Sheet & Profit & Loss Account.

6 **Nature of Firm:** Attested copy of **Partnership Deed, Power of Attorney**, if any, for signing the bid documents in case of **partnership firm & self-affidavit for proprietorship firm. MOA/AOA** shall be submitted in case it is **corporate entity**. All such documents shall have to be **NOTARISED**

7. **GSTRegistration:** GST Registration Number.

8. **I.T.PAN CARD:** The bidder should submit the attested Photocopy of PAN Card of their firm.

9. **Electrical contractor's license:** The bidders should submit the attested copy of GOG Electrical Contractor licenses of firm with latest validation.

10. Building and other Construction Workers' Welfare Cess Act registration copy, if applicable (after tender awarding).

**The bidders must be attach submitted all above documents scanned copy on n-procure and certified/self-verified copy of all documents submit with physical Technical bid.**

2.1 The above cited requirements are only indicative. The owner reserves the right to requisition any other relevant information and also reserves the right to reject the Bid proposal of any Bidder, if in the Owner's opinion the Qualification data is incomplete and Bidder is not qualified to perform the Contract satisfactorily.

##### 3.0 Bidding Costs

All costs/expenses in the preparation and submission of the Bid (including any post Bid discussions/presentations) shall be fully borne by the Bidder. Owner will not be responsible/ liable for these costs irrespective of the course and conclusion of this Bidding.

#### **4.0 BID DOCUMENTS**

4.1 The following Bid documents apart from Invitation to Bid detail the material and equipment specifications/characteristics, the bidding procedures and the terms & conditions of contract:

- a. Instructions to Bidders (ITB-Part I)
- b. General Conditions of Contract (GCC-Part I)
- c. Erection Conditions of Contract (ECC-Part I)
- d. Special Conditions of Contract (SCC-Part I)
- e. Technical Specifications (TSP-Part IIA)
- f. Technical Data Sheets (TDS-Part IIB)
- g. Bid Form and Price Schedules (BF/PS-Part IV)

#### **5.0 Knowing the Bid Documents**

5.1 Every intending Bidder is to examine and understand all instructions, forms, terms, conditions and specifications in the Bid Documents and fully know himself all the conditions and contents therein, which may in any manner, affect the scope & content of work and the costs thereof. Submission of a Bid not substantially responsive to the Bid Document in all respects and/or failure to furnish all information required by the Bid Document may entail rejection of the Bid at the Bidder's risk.

#### **6.0 Clarifications on Bid Documents**

6.1 In case an intending Bidder finds any discrepancy or omission in the documents and specifications or is in doubt as to the true meaning of any part, he shall make a request, in writing not later than the date of pre Bid discussion to the owner in triplicate. The owner will issue explanations, interpretations and clarifications as deemed fit in writing as a response to this request. On receipt of such interpretations/clarifications, the Bidder may submit his Bid within the date and time stipulated in the Bid invitation, all such explanations, interpretations and clarifications from the Owner shall be deemed as part of Bid Documents and shall invariably accompany the Bidder's proposal.

6.2 Any verbal/telephonic clarifications and information given by the Owner or his employee (s) or his representative(s) will not in any way be binding on the Owner.

7.0 Amendment of bidding document:

7.1 At any time prior to the deadline for submission of Bids the Owner may, for any reason, whether at his own initiative or in response to a clarification requested by the intending Bidder, modify the Bidding Document with amendment(s).

7.2 The amendment will be notified in writing or Fax /web site to all intending Bidders who have received the Bidding Document at the address contained in the letter of request for issue of bidding document from the Bidders. Owner will bear no responsibility or liability arising out of non-receipt of the same in time or otherwise.

7.3 In order to afford prospective bidders reasonable time in which to take the amendment into account in preparing their bids, the Owner may, at his discretion, extend the deadline for the submission of bids.

7.4 Such amendments, clarifications etc. shall be binding on bidders and will be given due consideration by the Bidders while they submit their bids and shall invariably enclose such documents as a part of the bid.

#### **C. PREPARATION OF BIDS**

8.0 Language of Bid:

8.1 The Bid prepared by the Bidder and all correspondence and documents relating to the Bid, exchanged by the Bidder and the Owner, shall be written in the English language, provided that any printed literature furnished by the Bidder may be written in another language so long as accompanied by an English translation of its pertinent passages.

Failure to comply with this may disqualify a bid. For purposes of interpretation of the bid, the English translation shall govern.

## 8.2 Bid Format

Bidders have to make the Bid in the formats furnished with this Document. Verbatim without adding any printed/type written text of their own.

## 9.0 Local Conditions:

9.1 It will be imperative on each Bidder to fully inform himself of all local conditions and factors, which may have any effect on the execution of the Contract covered under these documents and specifications. The Owner shall not entertain any request for clarifications from the bidders, regarding such local conditions.

9.2 It must be understood and agreed that such factors have properly been investigated and considered while submitting the proposals. No claim for financial adjustment to the Contract awarded under these specifications and documents will be entertained by the owner. Neither any change in the time schedule of the Contract nor any financial adjustments arising thereof shall be permitted by the Owner, which are based on the lack of such clear information or its effect on the cost of the works to the Bidder.

## 10.0 Documents comprising the Bid:

10.1 The Bidder shall complete the Bid form inclusive of Price Schedules; Technical Data Requirements etc. furnished in the Bidding Documents, indicating, for the services to be rendered, a brief description of services, quantity and price.

10.2 The Bidder shall also submit documentary evidence to establish that the Bidder meets the Qualification Requirements as detailed in Clause 2.0 above and Special Conditions of Contract (including Clause 11 of ITB).

10.3 All Tender Documents/ formats are to be returned completed and filled in all respects and signed by the Company Authorized Signatory wherever specified.

10.4 The Bid Guarantee shall be furnished in a separate cover in accordance with clause specific ITB.

## 11.0 Scope of the proposal

11.1 The Scope of the proposal shall be on the basis of a single Bidder's responsibility, completely covering all the equipment erection and other installation services specified under the accompanying Technical Specifications. It will include among others as specified therein the following:-

- a) Receipt of equipments and material from Soja or any GETCO construction store and transporting, storage, preservation and conservation of equipment at the Site.
- b) Pre-assembly, if any, erection, testing and commissioning of all the equipments.
- c) Reliability tests and performance and guarantee tests on completion of commissioning.

11.2 As specified in the Special Conditions of Contract, no deviation whatsoever to certain conditions of the bidding documents permitted by the Owner and therefore, the Bidders are advised that while making Bid Proposals and quoting prices these conditions may appropriately be taken into consideration. Bidders are required to furnish a certificate in this regard as per the format provided in Special Conditions of Contract in a separate sealed envelope containing Bid security, which shall accompany the Technical Bid. Any Bid not accompanied by such certificate shall be rejected by the Owner and shall not be opened.

11.3 Bids not covering the above cited entire scope of works may be treated as incomplete and hence rejected.

11.4 The Bidder shall complete all the schedules & annexure in the Bid Proposal Sheets, Technical Data Sheets and specified elsewhere. The Qualifying Data should be filled in the required schedule of Bid Proposal Sheets.

## 12.0 Bid Price:

12.1 The Bidder shall specifically note that the Tenders are invited on percentage rate increase/decrease based in relation to unit rates of tender price schedule.

**13.0 Price Basis:**

13.1 The Price shall be quoted on firm basis.

13.2 The Price quoted by the bidder shall remain fixed during the bidder's performance of the contract and shall not be subject to variation on any account save for change in quantity. A bid submitted with an adjustable price quotation shall be treated as non-responsive and rejected.

**14.0 Taxes and Duties:**

14.1 As regards the income Tax, surcharge on income tax and any other corporate tax, Including GST and excluding welfare cess at prevailing rate the owner shall not bear any tax liability whatsoever. The bidder shall be liable and responsible for payment of such taxes as attracted under the provisions of the law.

14.2 Notwithstanding the tax liabilities as per the sub-clause 14.1 above the owner shall have the right to make deduction at source from the amounts payable to the contractor in respect of Income Tax (on the cost of items of supply included in the works contract) as may be mandatory in terms of the law. The owner shall not bear any liability in this regard but shall issue necessary certificate in respect of such deduction made.

14.3 In case any tax or duty is newly introduced by the Government applicable for this contract with effect from the next day of the date submission of the bid and if the contractor is required to pay additional tax or duty, then the owner shall reimburse the contractor the additional tax or duty so paid by the contractor against submission by the contractor of documentary evidence to the satisfaction of the owner. This provision will not be applicable to transaction between the contractor and his sub-contractors. Besides the said statutory variation, no other statutory variation shall be payable by the owner.

14.4 The owner's liability for all taxes and duties under the contract shall be limited to those indicated by the Bidder in the Bid Proposal Sheets, subject to the statutory variations and variations as per Clause No. 14.3. If the cost to the Contractor during the performance of the 'Contract' shall be increased or reduced by reasons of the making, passing or promulgation of any law after the date of submission of bid or by any order, regulation or bye-law having the force of law the amount of such increase or reduction shall be added to or deducted from the "Contract Price" as the case may be for direct transactions between contractor & owner, and not for bought out items. It is the Bidders responsibility to furnish details of taxes, duties, levies etc. applicable as on the date of submission of the bid.

14.5 No claim for any increase towards the statutory variation regarding enhancement of existing tax or duty or introduction of a new tax or duty applicable shall be entertained by the Owner during the extended period of contract, if any, provided the extension of the contract is required by causes attributable to the contractor.

14.6 The provision of statutory variation regarding enhancement of existing tax or duty or introduction of a new tax or duty will be applicable only to the direct transaction between the contractor and the owner.

14.7 Before quoting, the bidder may ascertain from the concerned tax authorities of Government of Gujarat the applicability of Work Contract Tax, Entry Tax, GST etc. in respect of this work and include the same in the quoted price. No separate claim in this regard will be entertained by the Owner, as it is the responsibility of the Bidder to pay all these taxes.

14.8 In addition, the conditions detailed under Special Conditions of Contract shall apply.

**15.0 Time Schedule:**

15.1 The basic consideration and the essence of the contract shall be strict adherence to the time schedule for performing the specified works.

15.2 The Owner's requirements of completion schedule for the Works are mentioned in the accompanying Special Conditions of Contract.

15.3 The completion schedule as stated in the special conditions of contract shall be one of the major factors in consideration of the bids.

#### **16.0 Insurance:**

The Bidder's insurance liabilities pertaining to the scope of Works are detailed out in Clauses titled Insurance , in General Terms and Conditions of Contract and in Erection Conditions of this Part-I. Bidder's attention is specifically invited to these clauses. Bid price shall include all the costs in fulfilling all the insurance liabilities under the Contract.

#### **17.0 Erection Tools and Tackles:**

The Bidder under a separate schedule, in his proposal shall include a list of all-special equipment tools & tackles etc. which he proposes to bring to site for the purpose of erection, handling, testing and commissioning including performance and guarantee tests of the equipment. If any such equipment is listed anywhere else in the proposal and not specially mentioned in the above schedule, it shall be deemed to have been included in the Bidder's proposed scope of supply.

#### **18.0 Bid Security/EMD:**

18.1 The bidder shall furnish, as a part of its bid EMD, bid security for an amount of one percent of estimated cost to be paid as under:

a) In the form of crossed NEFT/RTGS drawn in favor of **Gujarat Energy Transmission Corporation Limited payable at HIMATNAGAR.**

18.2 The bid security is required to protect the owner against the risk of Bidder's conduct, which would warrant the guarantee forfeiture, pursuant to relevant paras elsewhere The bid guarantee shall be made payable to the Owner without any condition whatsoever.

18.3 The EMD shall be submitted along with submission of Technical bid only. In no case it shall be submitted with sealed cover of Price Bid. Tenders not accompanied by EMD shall be rejected.

18.4 The Owner will reject any bid not secured in accordance with Para 18.1 above, as non-responsive. No exemptions are made in the furnishing of the security.

18.4 The EMD will be returned promptly to the unsuccessful tenderer after observing company's rules. The EMD will be returned to the successful tenderer after he furnishes the Security Deposit for performance and duly enters in to the contract. If he fails to furnish the SD or to execute the contract for the work offered to him, his EMD shall be forfeited and the tenderer may be disqualified from tendering for further works for GETCO as per its discretion.

18.5 The successful bidders, Bid Security will be discharged upon, furnishing the contract Security Deposit..

18.6 The bid guarantee may be forfeited.

- a) If a Bidder withdraws its bid during the period of bid validity specified by the bidder on the bid Form:
- b) If a bidder refuses to accept the contract or fails to commence the works (including supplies within thirty days of letter of award of contract)
- C) SD is not paid within time than EMD will be forfeited and disqualifying for future participation in tender.

#### **19.0 Format of Bid:**

19.1 The Bidder shall prepare one copies of the bid, clearly marking each "Original bid". In the event of any discrepancy between them the original shall govern.

19.2 The original and all copies of the bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorized by the Bidder to sign the Contract. The letter of authorization shall be indicated by written power-of-attorney accompanying the bid. All pages of the bid, except for un-amended printed literature, shall be initiated by the person or persons signing the bid.

19.3 The Bidders must submit the qualifying data in one original and one duplicate copy as required in this Instructions to Bidders in separate envelopes sealed and enclosed in the envelope submitting proposals, super scribed as under: **Work of erection of 66KV equipment, structures, control wiring, yard Lighting, Control-Room & Staff-Quarter Electrification etc at 66 KV Hathrol Sub Sation with Mesh earthing and furniture & 66 KV Hathrol LILO line from existing 66 kV Rupal-Punsari line.**

19.4 The bid shall contain no interlineations, erasures or overwriting except as necessary to correct errors made by the Bidder, in which case such corrections shall be initiated by the person or persons signing the bid.

## **20.0 Signature of Bids:**

20.1 The bid must contain the name, residence and place of business of the person or persons making the bid and must be signed and sealed by the Bidder with his usual signature. The names of all persons signing should also be typed or printed below the signature.

20.2 Bid by a partnership must be furnished with full names of all partners and be signed with the partnership name; followed by the signature(s) and designation(s) or the authorized partner(s) or other authorized representative(s).

20.3 Bids by Corporation/Company must be signed with the legal name of the Corporation/Company by the President/Managing Director or by the Secretary or other person or persons authorized to bid on behalf of such Corporation/Company in the matter.

20.4 A bid by a person who affixes to his signature the word 'President', 'Managing Director', 'Secretary', 'Agent' or other designation without disclosing his Principal will be rejected.

20.5 If it is found that two or more persons who are connected with one another either financially or as a principal and agent have bid under different names without disclosing their connection then such bids will be liable for rejection. Satisfactory evidence of authority of the person signing on behalf of the Bidder shall be furnished with the bid.

20.6 The Bidder's name stated on the proposal shall be the exact legal name of the firm.

20.7 Bids not conforming to the above requirements of signing may be disqualified and EMD forfeited.

## **21.0 Sealing and marking of bids:**

21.2 The Bidders shall submit all document online only..

21.3 a. Addressed to the Owner at the following address:

**The Superintending Engineer - GETCO**

**Circle office,66KV Motipur Substation Compound**

**HIMATNAGAR- 383 001.**

**Email: setrhmt.getco@gebmail.com, Aohmt.getco@gebmail.com, decmhmt.getco@gebmail.com,**

**detech1hmt.getco@gebmail.com**

## **22.0 Deadline for submission of bids:**

22.1 The Bidders have been send by registered post only. Bids submitted by telex/telegram will not be accepted. No request from any Bidder to the Owner to collect the proposals from airlines, cargo agent etc. shall be entertained by the Owner.

22.2 Bids must be received by the Owner at the address specified under Para 21.3, not later than the time & date mentioned in the Invitation to Bid.

22.3 The Owner may, at its discretion, extend this deadline for the submission of bids by amending the Bidding Document in which case all rights and obligations on the Owner and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

## **23.0 Late Bids**

Any bid received by the Owner after the time and date fixed or extended for submission of bids prescribed by the

Owner, will be rejected and not considered for evaluation same will return with seal condition.

**24.0 Modification and withdrawal of bids:**

- 24.1 The Bidder may modify or withdraw its bid after the bid's submission provided that written notice of the modification or withdrawal is received by the Owner prior to the deadline prescribed for submission of bids.
- 24.2 The Bidder's modification or withdrawal notice shall be prepared, sealed, marked and dispatched in accordance with the provisions of clause 21.0. The envelope should clearly indicate whether the modification is for the Technical bid or the Price bid. No bid modifications notice by Telex/Grams/Fax shall be entertained by the Owner.
- 24.3 No bid shall be modified in any manner, whatsoever subsequent to the deadline for submission of bids.
- 24.4 No bid may be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Bid Form. Withdrawal/modification of a bid during this interval may result in the Bidder's forfeiture of its bid security.

**E. BID OPENING AND EVALUATION**

**25.0 Opening of bids by owner:**

- 25.1 The Owner will open the technical bids (Online) in the presence of Bidder's representatives who choose to attend on the date and time mentioned for opening of bids in the Invitation to Bid or in case any extension has been given thereto, on the extended bid opening date and time notified to all the Bidders who have purchased the bidding document. The Bidder's representatives who are present shall sign a register evidencing their attendance.
- 25.2 The Bidder's names, Technical modifications, Bid withdrawal and such other details as the Owner, at his discretion may consider appropriate, will be announced in the Technical Bid Opening.
- 25.3 The price bids of all the "Techno-Commercial" Responsive Bidders shall be opened in the presence of representatives (up to two per firm) of such bidders who choose to be present. The date & time of opening the Price Bid shall be intimated to all such qualified bidders by Fax/Telex/Mail, at least one day in advance besides inviting final price bid if found appropriate after evaluation of Technical bids.
- 25.4 The Bidder's name, lump sum Bid Price, all discounts if any, modifications in the Price Bid and any such other details as the Owner, at his discretion, may consider appropriate, will be announced/ furnished in the Price Bid Opening.
- 25.5 No electronic recording/transmitting devices will be permitted during Bid opening.

**26.0 Purpose of evaluation of bids:**

- 26.1 The Bids received/accepted/opened will be evaluated by the Owner to ascertain the technical responsiveness of the bid for the complete scope of the proposal, as covered under these specifications and documents. All technically responsive bids shall then be examined to determine the LOWEST EVALUATED COMMERCIALY AND TECHNICALLY RESPONSIVE BIDS.

**27.0 Policy for bids under consideration:**

- 27.1 Bids shall be deemed to be under consideration immediately after opening of Technical Bid and until such time official intimation of award/rejection is made by the Owner to the Bidders. While the Bids are under consideration, Bidders and/or their representatives and other interested parties are advised to refrain from contacting by any means, the owner and/or his employee's representatives on the matters related to Bids under consideration.

**28.0 Clarification of bids:**

To assist in the examination evaluation and comparison of Bids the owner may on his own ask the Bidder for a clarification of its bid. The request for clarification and the response shall be in writing and no change in the price or substance of the bid shall be sought, offered or permitted.

## **29.0 Preliminary Examination:**

29.1 The Owner will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the bids are generally in order.

29.2 Arithmetical errors will be rectified on the following basis:

If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If there is a discrepancy between the total bid amount and the sum of total costs, the latter shall prevail and the total bid amount will be corrected accordingly. If there is a discrepancy between words and figures, the amount advantageous to the Owner will prevail. If the Bidder does not accept the correction of the errors as above, his Bid will be rejected and the amount of Bid Security will be forfeited. The Bidder should ensure that the prices furnished in various price schedules are consistent with each other. In the case of any inconsistency in the prices furnished in the specified prices schedules to be identified in Bid Form for this purpose, the Owner shall be entitled to consider the highest price for the purpose of evaluation and for the purpose of award of Contract use the lowest of the prices in these schedules.

29.3 Prior to the detailed evaluation, the Owner will determine the substantial responsiveness of each bid to the Bidding Document. For purpose of these Clauses, a substantially responsive bid is one, which conforms to all the terms and conditions of the Bidding Document without material deviations. A material deviation is one which affects in any way the prices, quality, quantity or delivery period of the equipment, completion of works or which limits in any way the responsibilities or liabilities of the Bidder of any right of the Owner as required in these specifications and documents. The Owner's determination of a bid's responsiveness shall be based on the contents of the bid itself without recourse to extrinsic evidence.

29.4 A bid determined as not substantially responsive will be rejected by the Owner and may not subsequently be made responsive by the Bidder by correction of non-conformity.

29.5 The Owner may waive any minor informality or non-conformity or irregularity in a bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.

## **30.0 Evaluation of Technical /Price Bids:**

No Copy of Technical Bid/ PRICE-BID requires in Physical Form. It is compulsory to submit Technical Bid /Price-bid through on-line (n-code) only.

## **31.1 Definitions and Meanings:**

For the purpose of the evaluation and comparison of bids, the following meanings and definition will apply:-

- a) 'Bid Price' shall mean the price quoted by each Bidder in his proposal for the complete scope of works.
- b) 'Evaluated Bid Price' shall be summation of 'Bid Price', 'Differential Price' and 'Cost Compensation for Deviations.'

## **F. AWARD OF CONTRACT**

### **32.0 Award Criteria**

32.1 The owner will award the contract to the successful Bidder, whose bid has been determined to be substantially responsive and has been determined as the lowest evaluated bid, providing further that the Bidder is determined to be qualified to perform the contract satisfactorily. The Owner shall be the sole judge in this regard.

32.2 Further, the Owner reserves the right to award separate contracts to two or more parties in line with the terms and conditions specified in the accompanying Technical Specifications.

### **33.0 Owner's right to accept any bid and to reject any or all bids:**

33.1 The Owner reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at time prior to award of contract, any without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for the Owner's action.

**34.0 Notification of award:**

- 34.1 Prior to the expiration of the period of bid validity and extended validity period, if any, the Owner will notify the successful Bidder in writing by registered letter or cable or telex or FAX, to be confirmed in writing by registered letter, that its bid has been accepted.
- 34.2 The notification of award will constitute the formation of the Contract.
- 34.3 Upon the successful Bidder's furnishing of performance guarantee/SD .Owner will promptly notify each unsuccessful Bidder and will discharge its bid security,

**35.0 Signing of contract:**

- 35.1 At the same time as the Owner notifies the successful Bidder that his bid has been accepted, the Owner will send the Bidder the detailed of Award, incorporating all agreements between the parties.
  - 35.2 Within 30 days of receipt of the detailed of Award, the successful bidder shall sign the same with date and return it to the Owner.
  - 35.3 The Bidder will prepare the Contract Agreement as per the Performa prescribed and the same will be signed within 30 (Thirty) days of notification of Award.
- 36.0. If bidder having experience in Sub-Contract, please furnish the authorization letter form principal order placing authority .

## PART-I GCC

### GENERAL TERMS & CONDITIONS OF CONTRACT

#### A. INTRODUCTION

##### 1.0 DEFINITION OF TERMS

- 1.1 The 'Contract' means the agreement entered into between the Owner and the Contractor as per the Contract Agreement signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
- 1.2 'Owner' shall mean the **Superintending Engineer, GETCO, HIMATNAGAR** or any of its subsidiaries and shall include its legal representatives, successors and assigns.
- 1.3 'Contractor' shall mean the Bidder whose bid is accepted by the Owner for the award of the Works and shall include such successful Bidder's legal representatives, successors and permitted assigns.
- 1.4 'Engineer' shall mean the officer appointed in writing by the Owner to act as Engineer from time to time for the purpose of the Contract.
- 1.5 The terms 'Equipment', 'Stores' and 'Materials' shall mean and include equipment, stores and materials to be provided by the Contractor under the Contract.
- 1.6 'Works' shall mean and include the furnishing of equipment, Labor and services, as per the Specifications and complete erection, testing and putting into satisfactory operation including all transportation, handling, unloading and storage at the Site as defined in the Contract.
- 1.7 'Specifications' shall mean the Specifications and Bidding Document forming a part of the Contract and such other schedules and drawings as may be mutually agreed upon.
- 1.8 'Site' shall mean and include the land and other places on, into or through which the works and the related facilities are to be erected or installed and any adjacent land, paths, street or reservoir which may be allocated or used by the Owner or Contractor in the performance of the Contract.
- 1.9 The term 'Contract Price' shall mean the lump-sum price quoted by the Contractor in his bid with additions and/or deletions as may be agreed and incorporated in the Letter of Award and the contract agreement for the entire scope of the works.
- 1.10 The term 'Erection Portion' of the Contract price shall mean the value of field activities of the works including erection, testing and putting into satisfactory operation including successful completion of performance and guarantee tests to be performed at Site by the Contractor including cost of insurances.
- 1.11 Site Engineer 'Inspector' shall mean the owner's Engineers or any person nominated by the time to inspect the equipment; stores or Works under the Contract and/or the duly authorized representative of the Owner.
- 1.12 'Notice of Award of Contract'/'Letter of Award'/'Telex of Award' shall mean the official notice issued by the Owner notifying the Contractor that his bid has been accepted.
- 1.13 'Order' shall mean the official letter issued by the Owner informing the acceptance of the bid.
- 1.14 'Date of Contract' shall mean the date on which letter of commencement of work issued by the respective sub division deputy engineer.
- 1.15 'Month' shall mean the calendar month. 'Day' or 'Days' unless herein otherwise expressly defined shall mean calendar day or days of 24 hours each.

A 'Week' shall mean continuous period of seven (7) days.

- 1.16 Writing' shall include any manuscript, type written or printed statement, under or over signature and/or seal as the case may be.
- 1.17 When the words 'Approved', 'Subject to Approval', 'Satisfactory', 'Equal to', 'Proper', 'Requested', 'As Directed', 'Where Directed', 'When Directed', 'Determined by', 'Accepted', 'Permitted', or words and phrases of like importance are used the approval, judgment, direction etc. is understood to be a function of the Owner/Engineer.
- 1.18 Test on completion shall mean such tests as prescribed in the Contract to be performed by the Contractor before the work is taken over by the Owner.
- 1.19 'Performance and Guarantee Tests', shall mean all operational checks and tests required to determine and demonstrate capacity, efficiency, and operating characteristics as specified in the Contract Documents.
- 1.20 The term 'Final Acceptance'/'Taking Over' shall mean the Owner's written acceptance of the Works performed under the Contract, after successful commissioning/completion of Performance and Guarantee Tests, as specified in the accompanying Technical Specifications or otherwise agreed in the Contract.
- 1.21 'Latent Defects' shall mean such defects caused by faulty designs, material or work-man- ship which cannot be detected during inspection, testing etc, based on the technology available for carrying out such tests.
- 1.22 'Codes' shall mean the following including the latest amendments and/or replacements, if any:
- a) Indian Electricity Act, 1905 and Rules and Regulations made here under.
  - b) Electricity Act 2003 & 2015 and Rules & Regulations made there under & any new amendment
  - c) Indian Factory Act, 1948 and Rules and Regulations made there under.
  - d) Indian Explosives Act, 1884 and Rules and Regulations made there under.
  - e) Indian Petroleum Act, 1934 and Rules and Regulations made there under.
  - f) A.S.M.E. Test Codes.
  - g) A.I.E.E. Test Codes.
  - h) American Society of Materials Testing Codes.
  - i) Standards of the Indian Standards Institution.
  - j) Other Internationally approved standards and/or rules and regulations touching the subject matter of the Contract.
- 1.23 Words imparting the singular only shall also include the plural and vice –versa where the context so requires.
- 1.24 Words imparting 'Person' shall include firms, companies, corporations and associations or bodies of individuals, whether incorporated or not.

## **2.0 APPLICATION**

These General Conditions shall apply to the extent that they are not super ceded by provisions in other parts of the Contract.

## **3.0 CONTRACT DOCUMENTS**

- 3.1 The term Contract Documents shall mean and include the following which shall be deemed to form an integral part of the Contract:
- a) Invitation to Bid including letter forwarding the Bidding Documents, Instructions to Bidders, General Terms and Conditions of Contract, the Special Conditions of Contract. and all other documents included under Part-I, Part-II and Part-III .
  - b) Specifications of the erection of the equipments and other technical services to be provided under the Contract as brought out in the accompanying Technical Specifications.
  - c) Contractor's Bid Proposal and the documents attached there to including the letters of clarifications thereto between the Contractor and the Owner prior to the Award of Contract except to the extent of repugnancy.
  - d) Letter of Award and any agreed variations of the conditions of the documents and special terms and conditions of Contract, if any.
- 3.2 In the event of any conflict between the above mentioned documents the matter shall be referred to the Engineer whose decision shall be considered as final and binding upon the parties.

#### **4.0 USE OF CONTRACT DOCUMENTS AND INFORMATION**

- 4.1 The Contractor shall not, without the Owner's prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of the Owner in connection therewith, to any person other than a person employed by the Contractor in the performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for the purpose of such performance.
- 4.2 The Contractor shall not, without the Owner's prior written consent, make use of any document or information enumerated in various Contract documents except for the purpose of performing the Contract.
- 4.3 The Contractor shall not communicate or use in advertising, publicity, sales releases or in any other medium, photographs or other reproduction of the Works under this Contract, or descriptions of the site, dimensions, quantity, quality or other information, concerning the works unless prior written permission has been obtained from the Owner.
- 4.4 Any document, other than the Contract itself, enumerated in various Contract documents shall remain the property of the Owner and shall be returned (in all copies) to the Owner on completion of the Contractor's performance under the Contract if so required by the Owner.

#### **5.0 CONSTRUCTION OF THE CONTRACT**

- 5.1 Notwithstanding anything stated elsewhere in the bid documents, the Contract to be entered into will be treated as a single Contract.  
Award shall be placed on the successful Bidder as follows:
- For providing services like inland transportation, insurance for delivery at site, unloading, storage, handling at site, installation, testing and commissioning including performance testing in respect of all the equipment material equipment/materials given by the owner after observing standard store procedures for transport from owner's stores, insurance, unloading storage handling at site installation testing & commissioning.
- 5.2 In case erection Contract, or where the Owner hands over his equipment to the Contractor for executing, then the Contractor shall at the time of taking delivery of the equipment/dispatch documents be required to execute an Indemnity Bond in favor of the Owner in the form acceptable to the **Superintending engineer, HIMATNAGAR** for keeping the equipment in safe custody and to utilize the same exclusively for the purpose of the said Contract. Samples of Performa for the Indemnity Bond will be furnished during award of Contract.
- 5.3 The Contract shall in all respects be construed and governed according to Indian Laws.

5.4 It is clearly understood that the total consideration for the Contract(s) has been broken up into various components only for the convenience of payment under the Contract(s) and for the measurement of deviations or modifications under the Contract(s).

## **6.0 JURISDICTION OF CONTRACT**

6.1 The laws applicable to the Contract shall be the laws in force in India. The Courts of **HIMATNAGAR** shall have exclusive jurisdiction in all matters arising under this Contract.

## **7.0 EXECUTION OF CONTRACT:**

7.1 The Owner, after the issue of the Letter of Award to the Contractor, will send one copy of the final agreement to the Contractor for his scrutiny and approval.

7.2 The Agreement, unless otherwise agreed to, shall be signed within 30 days of the acceptance of the Letter of Award, at the office the Owner at HIMATNAGAR on a date and time to be mutually agreed. The Contractor shall provide for signing of the Contract, Performance Guarantee, appropriate power of attorney and other requisite materials. In case the Contract is to be signed beyond the stipulated time, the Bid Guarantee submitted with the Proposal will have to be extended accordingly.

7.3 The Agreement will be signed in copies to be specified and the Contractor shall be provided with one signed original and the rest will be retained by the Owner.

7.4 Subsequent to signing of the Contract, the Contractor at his own cost shall provide the Owner with copies of agreement within fifteen (15) days after the signing of the Contractor.

## **8.0 ENFORCEMENT OF TERMS**

8.1 The failure of either party to enforce at any time any of the provisions of this Contract or any rights in respect thereto or to exercise any option therein provided, shall in no way be construed to be a waiver of such provisions, rights or options or in any way to affect the validity of the Contract. The exercise by either party of any of its rights herein shall not preclude or prejudice either party from exercising the same or any other right it may have under the Contract.

## **9.0 COMPLETION OF CONTRACT**

9.1 Unless otherwise terminated under the provisions of any other relevant clause, this Contract shall be deemed to have been completed on the expiry of the guarantee period as provided for under the clause entitled 'Guarantee' in this section of the Volume-I.

## **10.0 TIME – THE ESSENCE OF CONTRACT**

10.1 The time and the date of completion of the Contract as stipulated in the Contract by the Owner without or with modifications, if any, and so incorporated in the Letter of Award, shall be deemed to be the essence of the Contract. The Contractor shall so organize his resources and perform his work as to complete it not later than the date agreed to.

10.2 The Contractor shall submit a detailed bar chart within the time frame agreed consisting of adequate number of activities covering various key phases of the work such as design, procurement, manufacturing, shipment and field erection activities within seven (7) days of the date of LOI.

10.3 The above bar chart shall be compatible with the Owner's computer environment and furnished to the Owner on such media as may be desired by the Owner.

## **11.0 EFFECTIVENESS OF CONTRACT**

The Contract shall be considered as having come into force from the date of the commencement given by the respective

**Construction division** unless otherwise provided in LOI.

## **12.0 PENALTY FOR DELAY**

- 12.1 If the Contractor fails to successfully complete the commissioning within the time fixed under the Contract, the Contractor shall pay to the Owner as penalty a sum specified for each specified period of delay. The details of such penalty are brought out in the accompanying Special Conditions of Contract (SCC).
- 12.2 The total amount of penalty for delay under the Contract will be subject to a maximum of 10% of the Contract prices Plus GST as applicable will be imposed detailed in the Special Conditions of Contract (SCC).

## **13.0 GUARANTEE**

- 13.1 In the event of any emergency where in the judgment of the Engineer, delay would cause serious loss or damages, repairs or adjustment may be made by the Engineer or a third party chosen by the Engineer without advance notice to the Contractor and the cost of such work shall be paid by the Contractor. In the event such action is taken by the Engineer, the Contractor will be notified promptly and he shall assist wherever possible in making necessary corrections. This shall not relieve the Contractor of his liabilities under the terms and conditions of the Contract.
- 13.2 If it becomes necessary for the Contractor to rectify or renew any defective portions of the works the provision of this clause shall apply to portion of the works so rectified or corrected until the expiry of **12 months** from the date of such rectification or correction. If any defects are not rectified within a reasonable time, the Engineer may proceed to do the work at the Contractor's risk and cost but without prejudice to any other rights which the Owner may have against the Contractor in respect of such defects.
- 13.3 The rectification or correction of the work will be carried out free of cost by the Contractor. If any rectification or correction is carried out on his behalf at the site, the Contractor shall bear the cost of such rectification or correction.
- 13.4 The acceptance of the works by the Engineer shall in no way relieve the Contractor of his obligations under this clause.

## **14.0 TAXES, PERMITS & LICENCES**

The Contractor shall be liable and pay all non-Indian taxes, duties, levies lawfully assessed against the Owner or the Contractor in pursuance of the Contract. In addition the Contractor shall be responsible for payment of all Indian duties, levies and taxes lawfully assessed against the Contractor for his personal income & property only.

## **15.0 DEFENCE OF SUITS**

If any action in court is brought against the Owner or Engineer or an officer or agent of the Owner, for the failure, omission or neglect on the part of the Contractor to perform any acts, matters, covenants or things under the Contract, or for damage or injury caused by the alleged omission or negligence on the part of the Contractor, his agents, representatives or his Sub-Contractors, or in connection with any claim based on lawful demands of Sub-Contractors, workmen, suppliers or employees, the Contractor shall in all such cases indemnify and keep the Owner, and the Engineer and/or his representative, harmless from all losses, damages, expenses or decrees arising of such action.

## **16.0 LIMITATION OF LIABILITIES**

The final payment by the Owner in pursuance of the Contract shall mean the release of the Contractor from all his liabilities under the Contract. Such final payment shall be made only at the end of the Guarantee/Warranty period or after finalization of material account and final bill and till such time as the Contractual liabilities and responsibilities of the Contractor, shall prevail. All other payments made under the Contract shall be treated as on-account payments.

## **17.0 ENGINEER'S DECISION**

- 17.1 In respect of all matters which are left to the decision of the Engineer including the granting or with- holding of the certificates, the Engineer shall, if required to do so by the Contractor, give in writing a decision thereon.

17.2 If, in the opinion of the Contractor, a decision made by the Engineer is not in accordance with the meaning and intent of the Contract, the Contractor may file with the Engineer, within fifteen (15) days after receipt of the decision, a written objection to the decision.

Failure to file an objection within the allotted time will be considered as an acceptance of the Engineer's decision and the decision shall become final and binding.

17.3 The Engineer's decision and the filing of the written objection thereto shall be a condition precedent to the right to request arbitration. It is the intent of the Agreement that there shall be no delay in the execution of the works and the decision of the Engineer as rendered shall be promptly observed.

## **18.0 POWER TO VARY OR OMIT WORK**

18.1 No alterations, amendments, omissions, suspensions or variations of the Works (hereinafter referred to as 'variation') under the Contract as detailed in the Contract Documents, shall be made by the Contractor except as directed in writing by the Engineer, but the Engineer shall have full powers subject to the provisions hereinafter contained, from time to time during the execution of the Contract, by notice in writing to instruct the Contractor to make such variation without prejudice to the Contract. The Contractor shall carry out such variation and be bound by the same conditions as far as applicable as though the said variations occurred in the Contract Documents. If any suggested variations would, in the opinion of the Contractor, if carried out, prevent him from fulfilling any of his obligations or guarantees under the Contract, he shall notify the Engineer thereof in writing and the Engineer shall decide forthwith whether or not, the same shall be carried out and if the Engineer confirms his instructions, the Contractor's obligations and guarantees shall be modified to such an extent as may be mutually agreed. Any agreed difference in cost occasioned by any such variation shall be added to or deducted from the Contract Price as the case may be.

18.2 In the event of Engineer requiring any variation, a reasonable and proper notice shall be given to the Contractor to enable him to work his arrangement accordingly, and in cases where goods or materials are already prepared or any design, drawings or pattern made or work done as per the contract requires to be altered, a reasonable and agreed sum in respect thereof shall be paid to the Contractor.

18.3 In any case in which the Contractor has received instructions from the Engineer as to the requirement of carrying out the alterations or additional or substituted work which either then or later on, will in the opinion of the Contractor, involve a claim for additional payment, the Contractor shall immediately and in no case later than thirty (30) days, after receipt of the instructions aforesaid and before carrying out the instructions, advise the Engineer to that effect. But the Engineer shall not become liable for payment of any charges in respect of any such variations, unless the instructions for the performance of the same shall be confirmed in writing by the Engineer.

18.4 If any variation in the Works results in reduction of Contract Price, the parties shall agree, in writing, so to the extent of any change in the price, before the Contractor proceeds with the change.

18.5 In all the above cases, in the event of a disagreement as to the reasonableness of the said sum, the decision of the Engineer shall prevail.

18.6 Notwithstanding anything stated above in this clause, the Engineer shall have the full power to instruct the Contractor, in writing, during the execution of the Contract to vary the quantities of the items or groups of items in accordance with the provisions of clause entitled 'Change of Quantity' in section GCC of this Volume-I. The Contractor shall carry out such variations and be bound by the same conditions as though the said variations occurred in the Contract Documents. However, the Contract Price shall be adjusted at the rates and the prices provided for the original quantities in the Contract.

## **19.0 CHANGE OF QUANTITY**

19.1 During the execution of the Contract, the Owner reserves the right to increase or decrease or cancel the quantities of items under the Contract but without any change in unit price or other terms & conditions. Such variations unless otherwise specified in the accompanying Special Conditions of Contract and/or Technical Specifications, shall not be subjected to any limitation for the individual items but the total variations in all such items under the Contract shall be

limited to a percentage of the Contract price as specified in the Special Conditions of Contract.

- 19.2 The Contract price shall accordingly be adjusted based on the unit rates available in the Contract for the change in quantities as above. The base unit rates, as identified in the Contract shall however remain constant during the currency of the Contract, except as provided for in Clause 33.0 below. In case the unit rates are not available for the change in quantity, the same shall be subjected to mutual agreement.

## **20.0 CO-OPERATION WITH OTHER CONTRACTORS AND CONSULTING ENGINEERS**

The Contractor shall agree to cooperate with the Owner's other Contractors and Consulting Engineers and freely exchange with them such technical information as is necessary to obtain the most efficient and economical design and to avoid unnecessary duplication of efforts. The Engineer shall be provided with three copies of all correspondence addressed by the Contractor to other Contractors and Consulting Engineers of the Owner in respect of such exchange of technical information, wherever needed.

## **21.0 NO WAIVER OF RIGHTS**

Neither the inspection by the Owner or the Engineer or any of their officials, employees, or agents nor any order by the Owner or the Engineer for payment of money or any payment for or acceptance of, the whole or any part of the Works by the Owner or the Engineer, nor any extension of time, nor any possession taken by the Engineer shall operate as a waiver of any provision of the Contract, or of any power herein reserved to the Owner 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 or subsequent breach.

## **22.0 CERTIFICATE NOT TO AFFECT RIGHT OF OWNER AND LIABILITY OF THE CONTRACTOR.**

No interim payment certificate of the Engineer, nor any sum paid on account by the Owner, nor any extension of time for execution of the Works granted by the Engineer shall affect or prejudice the rights of the Owner against the Contractor or relieve the Contractor of his obligation for the due performance of the Contract, or be interpreted as approval of the Works done or of the equipment furnished and no certificate shall create liability for the Owner to pay for alterations, amendments, variations or additional works not ordered, in writing, by the Engineer 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 Owner, nor shall any such certificate nor the acceptance by him of any sum paid on account or otherwise affect or prejudice the rights of the Owner against the Contractor.

## **23.0 PROGRESS REPORTS**

During the various stages of the work in pursuance of the Contract, the Contractor shall at his own cost submit periodic progress reports as may be reasonably required by the Engineer with such materials as, charts, net-works, photographs, test certificates, etc. Such progress reports shall be in the form and size as may be required by the Engineer.

## **24.0 TAKING OVER**

Upon successful completion of all the tests to be performed at Site on equipment furnished and erected by the Contractor, the Engineer shall issue to the Contractor a Taking over Certificate as a proof of the final acceptance of the equipment. Such certificate shall not unreasonably be withheld nor will the Engineer delay the issuance thereof on account of minor omissions or defects which do not affect the commercial operation and/or cause any serious risk to the equipment. Such certificate shall not relieve the Contractor of any of his obligations which otherwise survive, by the terms and conditions of the Contract after issue of such certificate.

## **25.0 PAYMENT**

- 25.1 The payment to the Contractor for the performance of the works under the Contract will be made by the Owner as per the guidelines and conditions specified herein. All payments made during the Contract shall be on account payments

only. The final payment will be made on completion of all Works and on fulfillment by the Contractor of all his liabilities under the Contract.

25.2 Currency of Payment  
All payments under the Contract shall be in Indian Rupees only.

25.3 Terms.

Payment terms will be as prescribed in the special conditions of contract and on fulfillment of conditions specified thereof.

## **26.0 Payment Schedule**

26.1 Application for Payment

26.2 The Contractor shall submit application for the payment in the prescribed Performa of the Owner. Performa for application for payment will be as prescribed.

26.3 Each such application shall state the amount claimed and shall set forth in detail, in the order of the Payment Schedule, particulars of the Works including the Works executed at Site and of the equipment shipped/brought on to the site pursuant to the Contract up to the date mentioned in the application and for the period covered since the last preceding certificate, if any.

26.4 Every interim payment certificate shall certify the Contract value of the Works executed up to the date mentioned in the application for the payment certificate, provided that no sum shall be included in any interim payment certificate in respect of the works that, according to the decision of the Engineer, does not comply with the Contract.

26.5 Mode of Payment

26.6 Payment due on dispatch of equipment shall be made by the Owner through Owner's Bank or directly to the Contractor as per the payment schedule.

26.7 The payment of test charges, if any, payment, taxes and duties (whenever admissible) inland transportation (including port handling), insurance and the erection portion of the Works shall be made direct to the Contractor by the Owner.

26.8 All payments under the Contract shall be made as stipulated in the Special Conditions of Contract after signing the Contract Agreement. The payments linked with the dispatch of materials shall only be made after production of all dispatch documents as specified in the relevant Contract conditions which will include the Material Inspection Clearance Certificate issued by the Owner.

Progressive payments linked with erection shall only be made after the issue of certificates by the Engineer, one for the quantum of work completed and the other for the successful completion of quality check points involved in the quantum of work billed.

## **27.0 DEDUCTIONS FROM CONTRACT PRICE**

All costs, damages or expenses that the Owner may have paid, for which under the Contract the Contractor is liable, or any other retention award will be claimed by the Owner. The Owner to the Contractor shall bill all such claims regularly as and when they fall due. Such bills shall be supported by appropriate and certified vouchers or explanations, to enable the Contractor to properly identify such claims. Such claims shall be paid by the Contractor within thirty (30) days of the receipt of the corresponding bills and if not paid by the Contractor within the said period, the Owner may then deduct the amount, from any monies due or becoming due by him to the Contractor under the Contract or may be recovered by sections of Law or otherwise.

### **D. RISK DISTRIBUTION**

## **28.0 INSURANCE**

Sign and Seal of Contractor

- 28.1 The Contractor at his cost shall arrange, secure and maintain all insurance as may be pertinent to the Works and obligatory in terms of law to protect his interest and interests of the Owner against all perils detailed herein. The form and the limit of such insurance as defined herein together with the under-writer in each case shall be acceptable to the Owner. However, irrespective of such acceptance, the responsibility to maintain adequate insurance coverage at all time during the period of Contract shall be of Contractor alone. The Contractor's failure in this regard shall not relieve him of any of his contractual responsibilities and obligations. The insurance covers to be taken by the Contractor shall be in the joint name of the Owner and the Contractor. The Contractor shall, however, be authorized to deal directly with Insurance Company or Companies and shall be responsible in regard to maintenance of all insurance covers. Further the insurance should be in freely convertible currency.
- 28.2 Any loss or damage to the equipment during handling, transportation, storage, erection, putting into satisfactory operation and all activities to be performed till the successful completion of commissioning of the equipment shall be to the account of the Contractor. The Contractor shall be responsible for preference of all claims and make good the damages or loss by way of repairs and/or replacement of the equipment, damaged or lost. The transfer of title shall not in any way relieve the Contractor of the above responsibilities during the period of Contract. The Contractor shall provide the Owner with 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 Owner immediately after such insurance coverage. The Contractor shall also inform the Owner in writing at least sixty (60) days in advance regarding the expiry/cancellation and/or change in any of such documents and ensure revalidation, renewal etc., as may be necessary well in time.
- 28.3 The perils required to be covered under the insurance shall include, but not be limited to fire and allied risks, miscellaneous accidents (erection risks) workman compensation risks, loss or damage in transit, theft, pilferage, riot and strikes and malicious damages, civil commotion, weather conditions, accidents of all kinds, etc. The scope of such insurance shall be adequate to cover the replacement/reinstatement cost of the equipment for all risks up to and including delivery of goods and other costs till the equipment is delivered at Site. The insurance policies to be taken should be on replacement value basis and/or incorporating escalation clause. Notwithstanding the extent of insurance cover and the amount of claim available from the underwriters, the Contractor shall be liable to make good the full replacement/rectification value of all equipment/materials and to ensure their availability as per project requirements.
- 28.4 All costs on account of insurance liabilities covered under the Contract will be on Contractor's account and will be included in Contract Price, However, the Owner may from time to time, during the pendency of the Contract, ask the Contractor in writing to limit the insurance coverage, risks and in such a case, the parties to the Contract will agree for a mutual settlement, for reduction in Contract price to the extent of reduced premium amount. The Contractor, while arranging the insurance shall ensure to obtain all discounts on premium, which may be available for higher volume or for reason of financing arrangement of the project.
- 28.5 The clause entitled 'Insurance' under the section ECC of this Volume-I, covers the additional insurance requirements for the portion of the works to be performed at the Site.
- 28.6 Special Conditions of Contract details out the various insurance liabilities.

#### 29.0 LIABILITY FOR ACCIDENTS AND DAMAGES

Under the Contract, the Contractor shall be responsible for loss or damage to the plant until the successful completion of commissioning as defined elsewhere in the Bid document.

#### 30.0 DELAYS BY OWNER OR HIS AUTHORISED AGENTS

- 30.1 In case the Contractor's performance is delayed due to any act of omission on the part of the Owner or his authorized agents, then the Contractor shall be given due extension of time for the completion of the Works, to the extent such omission on the part of the Owner has caused delay in the Contractor's performance of the Contract.

Regarding reasonableness or otherwise of the extension of time, the decision of the Engineer shall be final.

### **31.0 FORCE MAJORE**

31.1 Force majeure is herein defined as any cause which is beyond the control of the Contractor or the Owner as the case may be, which they could not foresee or with a reasonable amount of diligence could not have foreseen and which substantially affects the performance of the Contract, such as:

- a. Natural phenomena, including but not limited to floods, droughts, earthquakes and epidemics;
- b. Acts of any Government, domestic or foreign, including but not limited to war, declared or undeclared, priorities, guarantees, and embargoes.

Provided either party shall within fifteen (15) days from the occurrence of such a cause notify the other in writing of such causes.

31.2 The Contractor or the Owner shall not be liable for delays in performing his obligations resulting from any force major cause as referred to and/or defined above. The date of completion will, subject to hereinafter provided, be extended by a reasonable time even though such cause may occur after Contractor's performance of obligation has been delayed due to other causes.

### **32.0 SUSPENSION OF WORK**

32.1 The Owner reserves the right to suspend and reinstate execution of the whole or any part of the Works without invalidating the provisions of the Contract. Orders for suspension or reinstatement of the Works will be issued by the Engineer to the Contractor in writing. The time for completion of the works will be extended for a period equal to duration of the suspension.

32.2 Any necessary and demonstrable cost incurred by the Contractor as a result of such suspension of the works will be paid by the Owner, provided such costs are substantiated to the satisfaction of the Engineer. The Owner shall not be responsible for any liabilities if suspension or delay is due to some default on the part of the Contractor or his Sub-Contractor.

### **33.0 CONTRACTOR'S DEFAULT**

33.1 If the Contractor shall neglect to execute the works with due diligence and expedition or shall refuse or neglect to comply with any reasonable order given to him, in writing by the Engineer in connection with the works or shall contravene the provisions of the Contract, the Owner may give notice in writing to the Contractor to make good the failure, neglect or contravention complained of. Should the Contractor fail to comply with the notice within thirty (30) days from the date of serving the notice, then and in such case the Owner shall be at liberty to employ other workmen and forthwith execute such part of the works as the Contractor may have neglected to do or if the Owner shall think fit, without prejudice to any other right he may have under the Contract to take the work wholly or in part out of the Contractor's hands and re-contract with any other person or persons to complete the works or any part thereof and in that event the Owner shall have free use of all Contractor's equipment that may have been at the time on the Site in connection with the works without being responsible to the Contractor for fair wear and tear thereof and to the exclusion of any right of the Contractor over the same, and the Owner shall be entitled to retain and apply any balance which may otherwise be due on the Contract by him to the Contractor, or such part thereof as may be necessary, to the payment of the cost of executing the said part of the Works or of completing the Works as the case may be. If the cost of completing of works or executing part thereof as aforesaid shall exceed the balance due to the Contractor shall pay such excess. Such payment of excess amount shall be independent of the liquidated damages for delay which the Contractor shall have to pay if the completion of works is delayed.

33.2 In addition, such action by the Owner as aforesaid shall not relieve the Contractor of his liability to pay liquidated damages for delay in completion of Works as defined in Clause 14.0 of this Section.

33.3 Such action by the Owner as aforesaid the termination of the Contract under this clause shall not entitle the Contractor to reduce the value of the Contract Performance Guarantee nor the time thereof. The Contract Performance Guarantee shall be valid for the full value and for the full period of the Contract including guarantee period.

#### **34.0 TERMINATION OF CONTRACT ON OWNER'S INITIATIVE**

34.1 The Owner reserves the right to terminate the Contract either in part or in full due to reasons other than those mentioned under clause entitled 'Contractor's Default'. The Owner shall in such an event give fifteen (15) day's notice in writing to the Contractor of his decision to do so.

34.2 The Contractor upon receipt of such notice shall discontinue the work on the date and to the extent specified in the notice, make all reasonable efforts to obtain cancellation of all orders and Contracts to the extent they are related to the work terminated and terms satisfactory to the Owner, stop all further sub-contracting or purchasing activity related to the work terminated, and assist Owner in maintenance, protection, and disposition of the works acquired under the Contract by the Owner.

In the event of such a termination the Contractor shall be paid compensation, equitable and reasonable, dictated by the circumstances prevalent at the time of termination.

34.3 If the Contractor is an individual or a proprietary concern and the individual or the proprietor dies and if the Contractor is a partnership concern and one of the partners dies then unless the Owner is satisfied that the legal representatives of the individual Contractor or of the proprietor of the propriety concern and in the case of partnership, the surviving partners, are capable of carrying out and completing the Contract the Owner shall be entitled to cancel the Contract as to its incomplete part without being in any way liable to payment of any compensation to the estate of deceased Contractor and/or to the surviving partners of the Contractor's firm on account of the cancellation of the Contract. The decision of the Owner that the legal representatives of the deceased Contractor or surviving partners of the Contractor's firm cannot carry out and complete the Contract shall be final and binding on the parties. In the event of such cancellation the Owner shall not hold the estate of the deceased Contractor and/or the surviving partners of the estate of the deceased Contractor and/or the surviving partners of the Contractor's firm liable to damages for not completing the Contract.

#### **35.0 FRUSTRATION OF CONTRACT**

35.1 In the event of frustration of the Contract because of supervening impossibility in terms of Section 56 of the Indian Contract Act, parties shall be absolved of their responsibility to perform the balance portion of the Contract, subject to provisions contained in sub-clause 45.3 below.

35.2 In the event of non-availability or suspension of funds for any reasons, whatsoever (except for reason of willful or flagrant breach by the Owner) and/or Contractor then the works under the Contract shall be suspended.

Furthermore, if the Owner is unable to make satisfactory alternative arrangements for financing to the Contractor in accordance with the terms of the Contract within three months of the event, the parties hereto shall be relieved from carrying out further obligations under the Contract treating it as frustration of the Contract.

35.3 In the event referred to in sub-clauses 45.1 & 45.2 above the parties shall mutually discuss to arrive at reasonable settlement on all issues including amounts due to either party for the work already done on quantum merit basis, which shall be determined by mutual agreement between the parties.

#### **36.0 GRAFTS AND COMMISSIONS ETC.**

Any graft, commission, gift or advantage given, promised or offered by or on behalf of the Contractor or his partner(s), agent(s), officer(s), director(s), employee(s) or servant(s) or any one on his or their behalf in relation to the obtaining or to the execution of this or any other Contract with the Owner, shall in addition to any criminal liability which it may incur, subject the Contractor to the cancellation of this and all other Contracts and also to payment of any loss or damage to the Owner resulting from any cancellation. The Owner shall then be entitled to deduct the amount so payable from any monies otherwise due to Contractor under the Contract.

#### **37.0 SETTLEMENT OF DISPUTES**

37.1 Any dispute(s) or difference(s) arising out of or in connection with the Contract shall, to the extent possible, be settled amicably between the parties.

- 37.2 If any dispute or difference of any kind, whatsoever, shall arise between the Owner and the Contractor, arising out of the Contract for the performance of the Works whether during the progress of the Works or after its completion or whether before or after the termination, abandonment or breach of the Contract, it shall, in the first place, be referred to and settled by the Engineer, who, within a period of thirty (30) days after being requested by either party to do so, shall give written notice of his decision to the Owner and the Contractor.
- 37.3 Save as hereinafter provided, such decision in respect of every matters so referred shall be final and binding upon the parties until the completion of the Works and shall forthwith be given effect to by the Contractor who shall proceed with the Works with all due diligence, whether he or the Owner requires arbitration as hereinafter provided or not.
- 37.4 If after the Engineer has given written notice of his decision to the parties, no claim to arbitration has been communicated to him by either party within thirty (30) days from the receipt of such notice, the said decision shall become final and binding on the parties.
- 37.5 In the event of the Engineer failing to notify his decision as aforesaid within thirty (30) days after being requested as aforesaid, or in the event of either the Owner or the Contractor being dissatisfied with any such decision, or within thirty (30) days after the expiry of the first mentioned period of thirty days, as the case may be, either party may require that the matters in dispute be referred to arbitration as hereinafter provided.

### 38.0 **ARBITRATION**

For Works Contracts and Composite Contracts. the following Arbitration Clauses are required to be inserted in the respective agreements:

#### **(1) Amicable Settlement**

Any dispute, difference, controversy or claim between the parties arising out of or relating to this contract with reference to the construction. Interpretation, breach. termination or validity interpretation, breach. termination or validity thereof (hereinafter referred as " the Dispute ") shall, upon the written request of either Party be referred to the authorized representatives of the Disputing Parties for resolution. The authorized representatives shall promptly meet and attempt to negotiate in good faith a resolution of the Dispute within thirty days of the service of the request.

#### **(2) Arbitration**

If the Parties fail to amicably resolve the disputes or differences or contrary claims indicated herewith in sub clause (1) of Clause – arising under or in connection with the present Works contracts, whether pertaining to works Contracts alone or works and procurement both, the same shall be referred to arbitration Under the Gujarat Public Works Contracts Disputes Arbitration Tribunal Act, 1992."

For Procurement of Goods or Services and Non- Works Contracts, the following Arbitration clause are required to be inserted in the respective agreements:

#### **(1) Amicable Settlement**

Any dispute, difference, controversy or claim between the Parties arising out of or Relating to this contract with reference to the construction, interpretation, breach, termination or validity thereof (hereinafter referred as " the Dispute ") shall, upon the written request of either Party be referred to the authorized representatives of the Disputing Parties for resolution. The authorized representatives shall promptly meet and attempt to negotiate in good faith a resolution of the Dispute within thirty days of the service of the request.

#### **(2) Arbitration**

If the Parties fail to amicably resolve the disputes or differences or contrary claims as indicated herewith in sub clause (1) of **Clause** – arising under or in connection with the present agreement, the same shall be referred to the Arbitration Centre (Domestic and International) High Court of Gujarat at Ahmedabad (" the Centre " for short) Currently functioning in the High Court Complex, Sola, Ahmedabad for appointment of arbitrator and thereupon, the Center shall arbitration proceedings in accordance with its rules . If the parties Unanimously agree to appoint three arbitrators, then in that case, each party shall appoint one arbitrator from the panel of arbitrators of the Centre, and the Centre shall appoint the third arbitrator, who will act as the

Presiding Arbitrator . Such arbitrators Shall be the Sole and exclusive remedy between the parties for all disputes arising under or in connection with this agreement. The arbitration shall take place at the Arbitration Centre, Ahmedabad, High Court Complex, Sola, Ahmedabad, Gujrat, in accordance with the provisions of the Arbitration and Conciliation Act, 1996 as amended from time to time, and the proceedings shall be conducted in English. The arbitration award shall be final and binding on the parties.

**39.0 RECONCILIATION OF ACCOUNTS**

The Contractor shall prepare and submit every one month, a statement covering payments claimed and the payments received vis-à-vis the works executed, for reconciliation of accounts with the Owner. The Contractor shall also prepare and submit a detailed account of Owner Issue materials received and utilized by him for reconciliation purpose in a format to be discussed & finalized with the Owner before the award of Contract.

## PART-I ECC

### ERECTION CONDITIONS OF CONTRACT

#### **1.0 GENERAL**

- 1.1 The following shall supplement the conditions already contained in other parts of these specifications & document and shall govern the portion of the work of this Contract to be performed at Site.
- 1.2 The Contractor upon signing of the Contract shall, nominate a responsible officer as his representative at Site suitably designated for the purpose of overall responsibility and coordination of the works to be performed at Site. Such person shall function from the Site office of the Contractor during the pendency of Contract.

#### **2.0 REGULATION OF LOCAL AUTHORITIES AND STATUTES**

- 2.1 The Contractor shall comply with all the rules and regulations of local authorities during the performance of his field activities. He shall also comply with the Minimum Wages Act, 1948 and the Payment of Wages Act (both of the Government of India) and the rules made there under in respect of any employee or workman employed or engaged by him or his Sub-Contractor. He shall abide by labor laws and others as specified in the special conditions of contract.
- 2.2 All registration and statutory inspection fees, if any, in respect of his work pursuant to this Contract shall be to the account of the Contractor. Should any such inspection or registration need to be re-arranged due to the fault of the Contractor or his Sub Contractor, the additional fees to such inspection and/or registration also shall be borne by the Contractor.

#### **3.0 OWNER'S LIEN ON EQUIPMENT**

The Owner shall have lien on all equipment brought to the Site for the purpose of erection, testing and commissioning of the equipment to be supplied & erected under the Contract. The Owner shall continue to hold the lien on all such equipment throughout the period of Contract. No material brought to the Site shall be removed from the Site by the Contractor and/or his Sub-Contractors without the prior written approval of the Engineer.

#### **4.0 ACCESS TO SITE AND WORKS ON SITE**

- 4.1 Suitable access to and possession of the Site shall be afforded to the Contractor by the Owner in reasonable time.
- 4.2 The works so far as it is carried out on the Owner's premises, shall be carried out at such time as the Owner may approve and the Owner shall give the Contractor reasonable facilities for carrying out the works.
- 4.3 In the execution of the works, no person other than the Contractor or his duly appointed representative, Sub-Contractor and workmen, shall be allowed to do work on the Site, except by the special permission, in writing of the Engineer or his representative.

#### **5.0 CONTRACTOR'S SITE ESTABLISHMENT**

The Contractor shall at all times keep posted an authorized representative for the purpose of the Contract. Any written order or instruction of the Engineer or his duly authorized representative shall be communicated to the said authorized resident representative of the Contractor and the representative shall be available at a stated address for this purpose.

#### **6.0 CO-OPERATION WITH OTHER CONTRACTORS**

- 6.1 The Contractor shall co-operate with all other Contractors or tradesmen of the Owner, who may be performing other works on behalf of the Owner and the workmen who may be employed by the Owner and doing work in the vicinity of the Works under the Contract. The Contractor shall also so arrange to perform his work as to minimize, to the maximum extent possible, interference with the work of other Contractors and their workmen. Any injury or damage that may be sustained by the employees of the other Contractors and the Owner, due to the Contractor's work shall promptly be made good at the Contractor's own expense.

## **7.0 DISCIPLINE OF WORKMEN**

The Contractor shall adhere to the disciplinary procedure set by the Engineer in respect of his employees and workmen at Site. The Engineer shall be at liberty to object to the presence of any representative or employee of the Contractor at the Site, if in the opinion of the Engineer such employee has misconduct himself or is incompetent or negligent or otherwise undesirable and then the Contractor shall remove such a person objected to and provide in his place a competent replacement.

## **8.0 CONTRACTOR'S FIELD OPERATION**

8.1 The Contractor shall keep the Engineer informed in advance regarding his field activity plans and schedules for carrying-out each part of the works. Any review of such plan or schedule or method of work by the Engineer shall not relieve the Contractor of any of his responsibilities towards the field activities. Such reviews shall also not be considered as an assumption of any risk or liability by the Engineer or the Owner or any of his representatives and no claim of the Contractor will be entertained because of the failure or inefficiency of any such plan or schedule or method of work reviewed. The Contractor shall be solely responsible for the safety, adequacy and efficiency of plant and equipment and his erection methods.

8.2 The Contractor shall have the complete responsibility for the conditions of the Work-site including the safety of all persons employed by him or his Sub-Contractor and all the properties under his custody during the performance of the work. This requirement shall apply continuously till the completion of the Contract and shall not be limited to normal working hours.

## **9.0 PROGRESS REPORT**

9.1 The Contractor shall furnish three (3) copies each to the Engineer of progress including if any, photographs of the work done at Site.

9.2 The monthly progress report detailing-out the progress achieved on all erection activities shall highlight comparison to the schedules. The report shall also indicate the reasons for the variance between the scheduled and actual progress and the action proposed for corrective measures, wherever necessary.

## **10.0 MAN-POWER REPORT**

10.1 The Contractor shall submit to the Engineer, on the first day of every month, a man hours schedule for the month, detailing the man hours scheduled for the month, skill-wise and area-wise.

## **11.0 PROTECTION OF WORK**

The Contractor shall have total responsibility for protecting his works till it is finally taken over by the Engineer. No claim will be entertained by the Owner or by the Engineer for any damage or loss to the Contractor's works and the Contractor shall be responsible for complete restoration of the damaged works to original conditions to comply with the specification and drawings.

## **12.0 EMPLOYMENT OF LABOR**

12.1 The Contractor will be expected to employ on the work only his regular skilled employees with experience of his particular work. No person below the age of eighteen years shall be employed.

12.2 All traveling expenses including provisions of necessary transport to and from Site, lodging, allowances and other payments to the Contractor's employees shall be the sole responsibility of the Contractor.

12.3 In case the Owner becomes liable to pay any wages or dues to Labor or any Government agency under any of the provisions of the Minimum Wages Act, Workmen Compensation Act, Contract Labor Regulation Abolition Act or any other law due to act of omission of the Contractor, the Owner may make such payment and shall recover the same from the Contractor's bills.

## **13.0 FACILITIES TO BE PROVIDED BY THE OWNER**

13.1 Space Land for Contractor's Store, Workshop etc.

a) The Engineer shall at his discretion and for the duration of execution of the Contract make available at site, land for construction of Contractor's field office, workshop, stores, etc. required for execution of the Contract. Any such temporary construction shall be done by the Contractor at his cost

b) On completion of work the Contractor shall hand over the land duly cleaned to the Engineer. Until and unless the Contractor has handed over the vacant possession of land allotted to him for the above purpose, the payment of his final bill shall not be made.

13.2 Electricity & Power supply:

Where power supply is available with the Owner for construction purpose the same will be provided at the job site at one point of the distribution system as may be chargeable basis. Electricity furnished will be 440 volts, 3 phase, 50 cycles and 230 volts, 1 phase, 50 cycles. Each Contractor shall provide and install all necessary transformers, switchgears, wiring fixtures, bulbs and other temporary equipment for further distribution and utilization of energy for power and lighting and shall remove the same on completion of the work. Should, however, electricity be used in the Contractor's Labor/staff colony, the power so consumed shall be charged at the prevailing tariff rate of the GUVNL as prevalent for that area at the time of award of work; the supply may be withdrawn if the power is used for purposes other than for the work of the project and the Contractor shall not be entitled to any claim whatsoever on account of any such action taken by the Engineer.

#### **14.0 FACILITIES TO BE PROVIDED BY THE CONTRACTOR**

14.1 Tools, tackles and scaffoldings

The Contractor shall provide all the construction equipments; tools, tackles and scaffoldings required for pre-assembly, erection, testing and commissioning of the equipment covered under the Contract. He shall submit a list of all such materials to the Engineer before the commencement of work at Site. These tools and tackles shall not be removed from the Site without the written permission of the Engineer.

14.2 First-aid

14.3 The Contractor shall provide necessary first-aid facilities for all his employees, representatives and workmen working at the Site. Enough number of Contractor's personnel shall be trained in administering first-aid.

14.4 Cleanliness

14.4.1 The Contractor shall be responsible for keeping the entire area allotted to him clean and free from rubbish, debris etc. during the period of Contract. The Contractor shall employ enough number of personnel to keep the work area clean. Materials and stores shall be so arranged to permit easy cleaning of the area. In areas where equipment might drip oil and cause damage to the floor surface, a suitable protective cover of a flame resistant, oil proof sheet shall be provided to protect the floor from such damage.

#### **15.0 LINES AND GRADES**

All the works shall be performed to the lines, grades and elevations indicated on the drawings. The Contractor shall be responsible to locate and lay-out the works. Basic horizontal and vertical control points will be established and marked by the Engineer at site at suitable points. These points shall be used as datum for the works under the Contract. The Contractor shall inform the Engineer well in advance of the times and places at which he wishes to do work in the area allotted to him so that suitable datum points may be established and checked by the Engineer to enable the Contractor to proceed with his works. Any work done without being properly located may be removed and/or dismantled by the Engineer at Contractor's expense.

#### **16.0 FIRE PROTECTION**

16.1 The work procedures that are to be used during the erection shall be those, which minimize fire hazards to the extent practicable. Combustible materials, combustible waste and rubbish shall be collected and removed from the Site at least once each day. Fuels, oils and volatile or inflammable materials shall be stored away from the construction and equipment and materials storage areas.

16.2 All the Contractor's supervisory personnel and select number of workers shall be trained for fire fighting. Enough of such trained personnel must be available at the Site during the entire period of the Contract.

## **17.0 SECURITY**

The Contractor shall have total responsibility for all equipment and materials in his custody/stores, loose, semi-assembled and/or erected by him at Site. The Contractor shall make suitable security arrangements ensure the protection of all materials, equipment and works from theft, fire, pilferage and any other damages and loss.

## **18.0 PRE-COMMISSIONING TRIALS AND INITIAL OPERATIONS**

The pre-commissioning trials and initial operations of the equipment erected by the Contractor shall be carried out in presence of contractor and is deemed considered as part of the work completion. If it is anticipated that the above test may prolong for a long time, the Contractor's workmen required for the above test shall always be present at Site during such tests and trials.

## **19.0 MATERIALS HANDLING AND STORAGE**

- 19.1 All the equipment furnished under the Contract and arriving at Site shall be promptly received, unloaded, transported and stored in the storage spaces by the Contractor.
- 19.2 Contractor shall be responsible for examining all the shipment and notify the Engineer immediately of any damages, storage, discrepancy etc, for the purpose of Engineer's information only. The Contractor shall submit to the Engineer every week a report detailing all the receipts during the week. However, the Contractor shall be solely responsible for any shortages or damages in transit, handling and / or in storage and erection of the equipment at Site. Any demurrage, wharf age and other such charges claimed by the transporters, railways etc, shall be to the account of the Contractor.
- 19.3 The Contractor shall maintain an accurate and exhaustive record detailing out the list of all equipment materials received by him for the purpose of erection and keep such record open for the inspection of the Engineer in-charge.
- 19.4 All equipment shall be handled very carefully to prevent any damage or loss. The equipment stored shall be properly protected to prevent damage either to the equipment or to the floor where they are stored. The equipment from the store shall be moved to the actual location at the appropriate time so as to avoid damage of such equipment at Site.
- 19.5 All electrical panels, control gears, motors and such other devices shall be properly dried by heating before they are installed and energized. Motor bearings, slip ring, commutators and other exposed parts shall be protected against moisture ingress and corrosion during storage and periodically inspected.
- 19.6 All the electrical equipment such as motors, generators, etc. shall be tested for insulation resistance at least once in three months from the date of receipt till the date of commissioning and a record of such measured insulation values maintained by the Contractor. Such records shall be opened for inspection by the Engineer.
- 19.7 The consumable and other supplies likely to deteriorate due to storage must be thoroughly protected and stored in a suitable manner to prevent damage or deterioration in quality by storage.
- 19.8 All the materials stored in the open or dusty location must be covered with suitable weatherproof and flame proof covering material wherever applicable.
- 19.9 If the materials belonging to the Contractor are stored in areas other than those earmarked for him, the Engineer will have the right to get it moved to the area earmarked for the Contractor at the Contractor's cost.
- 19.10 The Contractor shall be responsible for making suitable indoor storage facilities to store all equipment, which require indoor storage. Normally, all the electrical equipment such as motors, control gears, generators, exciters and consumables like electrodes, lubricants etc. shall be stored in the closed storage space. The Engineer, in addition, may direct the Contractor to move certain other materials, which in his opinion will require indoor storage, to indoor storage areas, which the Contractor shall strictly comply with.

## **20.0 CONSTRUCTION MANAGEMENT**

- 20.1 The field activities of the Contractors working at Site will be coordinated by the Engineer and the Engineer's decision shall be final in resolving any disputes or conflicts between the Contractor and other Contractors and the tradesmen of the Owner regarding scheduling and coordination of work. Such decision by the Engineer shall not be a cause for extra compensation or extension of time for the Contractor.
- 20.2 The Engineer shall hold weekly meetings of the Contractor at Site, at a time and place to be designated by the Engineer. The Contractor shall attend such meetings and take notes of discussions during the meeting and the decision of the Engineer and shall strictly adhere to those decisions in performing his works. In addition to the above weekly meeting, the Engineer may call for other meetings either with individual Contractors or with selected number of Contractors and in such a case the Contractors if called, will also attend such meetings.
- 20.3 Time is the essence of the Contract and the Contractor shall be responsible for performance of his works in accordance with the specified construction schedule. If at any time, the Contractor is falling behind the schedule, he shall take necessary action to make good for such delays by increasing his work force or by working overtime or otherwise accelerate the progress of the work to comply with the schedule and shall communicate such actions in writing to the Engineer, satisfying that his action will compensate for the delay. The Contractor shall not be allowed any extra compensation for such action.
- 20.4 The Engineer shall, however, not be responsible for provision of additional Labor and/or materials or supply or any other services to the Contractor except for the coordination work between various Contractors if any at site.

## **21.0 FIELD OFFICE RECORDS**

The Contractor shall maintain up to date copies of all drawings, specifications and other Contract Documents and any other supplementary data complete with all the latest revisions thereto. The Contractor shall also maintain in addition the continuous record of all changes to the above Contract Documents, drawings, specifications, and supplementary data, etc. effected at the field and on completion of his total assignment under the Contract shall incorporate all such changes on the drawings and other Engineering data to indicate as installed conditions of the equipment furnished and erected under the Contract. Such drawings and Engineering data shall be submitted to the Engineer in required number of copies.

## **22.0 CONTRACTOR'S MATERIALS BROUGHT TO SITE**

- 22.1 The Contractor shall bring to Site all equipment, components, parts, materials, including construction equipment, tools and tackles for the purpose of the works under intimation to the Engineer. All such goods shall, from the time of their being brought vest in the Owner, but may be used for the purpose of the works only and shall not on any account be removed or taken away by the Contractor without the written permission of the Engineer. The Contractor shall nevertheless be solely liable and responsible for any loss or destruction thereof and damage thereto.
- 22.2 The Owner shall have a lien on such goods for any sum or sums which may at any time be due or owing to him by the Contractor, under, in respect of or by reasons of the Contract. After giving a fifteen (15) day's notice in writing of his intention to do so, the Owner shall be at liberty to sell and dispose off any such goods, in such manner as he shall think fit and to apply the proceeds in or towards the satisfaction of such sum or sums due as aforesaid.
- 22.3 After the completion of the Works, the Contractor shall remove from the Site under the direction of the Engineer the materials such as construction equipment, erection tools and tackles, scaffolding etc. with the written permission of the Engineer.

## **23.0 PROTECTION OF PROPERTY AND CONTRACTOR'S LIABILITY**

- 23.1 The Contractor shall be responsible for any damage resulting from his operations. He shall also be responsible for protection of all persons including members of public and employees of the Owner and the employees of other Contractors and Sub-Contractors and all public and private property.

## **24 INSURANCE**

- 24.1 In addition to the conditions covered under the Clause entitled 'Insurance' in General Terms and Conditions of Contract of this Volume-I, the following provisions will also apply to the portion of works to be done beyond the

Contractor's own or his Sub-Contractor's manufacturing Works.

#### 24.2 Workmen's Compensation Insurance

This insurance shall protect the Contractor against all claims applicable under the Workmen's Compensation Act, 1948 (Government of India). This policy shall also cover the Contractor against claims for injury, disability, disease or death of his or his Sub-Contractor's employee, which for any reason are not covered under the Workmen's Compensation Act.

#### 24.3 Comprehensive General Liability Insurance

The insurance shall protect the Contractor against all claims arising from injuries, disabilities, disease or death of members of public or damage to property of others, due to any act of omission on the part of the Contractor, his agents, his employees, his representatives and Sub-Contractors or from riots, strikes and civil commotion.

24.4 The hazards to be covered will pertain to all the works and areas where the Contractor, his Sub-Contractors, his agents and his employees have to perform work pursuant to the Contract.

24.5 The above are only illustrative list of insurance covers normally required and it will be the responsibility of the Contractors to maintain all necessary insurance coverage to the extent both in time and amount to take care of all his liabilities either direct or indirect, in pursuance of the Contract.

### 25.0 UNFAVOURABLE WORKING CONDITIONS

The Contractor shall confine all his field operations to those works, which can be performed without subjecting the equipment and materials to adverse effects during inclement weather conditions, like monsoon, storms etc. and during other unfavorable construction conditions. No field activities shall be performed by the Contractor under conditions, which might adversely affect the quality and efficiency thereof, unless special precautions or measures are taken by the Contractor in a proper and satisfactory manner in the performance of such Works and with the concurrence of the Engineer. Such unfavorable construction conditions will in no way relieve the Contractor of his responsibility to perform the Works as per the schedule.

### 26.0 PROTECTION OF MONUMENTS AND REFERENCE POINTS

The Contractor shall ensure that any finds such as relic, antiquity, coins, fossils, etc. which he may come across during the course of performance of his Works either during excavation or elsewhere, are properly protected and handed over to the Engineer. Similarly the Contractor shall ensure that the bench marks, reference points, etc, which are marked either with the help of Engineer or by the Engineer shall not be disturbed in any way during the performance of his Works. If any work is to be performed which disturbs such reference the same shall be done only after these are transferred to other suitable locations under the direction of the Engineer. The Contractor shall provide all necessary materials and assistance for such relocation of reference points etc.

### 27.0 WORK & SAFETY REGULATIONS

27.1 The Contractor shall ensure proper safety of all the workmen, materials, plant and equipment belonging to him or to or to others, working at the Site. The Contractor shall also be responsible for provision of all safety notices and safety equipment required both by the relevant legislations and the Engineer, as he may deem necessary.

27.4 All equipment used in construction and erection by Contractor shall meet Indian/International Standards and where such standards do not exist, the Contractor shall ensure these to be absolutely safe. All equipment shall be strictly operated and maintained by the Contractor in accordance with manufacturer's Operation Manual and safety instructions and as per Guidelines/rules of in this regard.

27.5 Periodical examinations and all tests for all lifting/hoisting equipment & tackles shall be carried-out in accordance with the relevant provisions of Factories Act 1948, Indian Electricity Act 1910 and associated Laws/Rules in force from time to time. A register of such examinations and tests shall be properly maintained by the Contractor and will be promptly produced as and when desired by the Engineer or by the person authorized by him.

- 27.6 The Contractor shall provide suitable safety equipment of prescribed standard to all employees and workmen according to the need.
- 27.8 The Contractor shall provide safe working conditions to all workmen and employees at the Site including safe means of access, railings, stairs, ladders, scaffoldings etc. The scaffoldings shall be erected under the control and supervision of an experienced and competent person. For erection, good and standard quality of material only shall be used by the Contractor.
- 27.9 The Contractor shall not interfere or disturb electric fuses, wiring and other electrical equipment belonging to the Owner or other Contractors under any circumstances, whatsoever, unless expressly permitted in writing by to handle such fuses, wiring or electrical equipment
- 27.10 Before the Contractor connects any electrical appliances to any plug or socket belonging to the other Contractor or Owner, he shall:
- a. Satisfy the Engineer that the appliance is in good working condition;
  - b. Inform the Engineer of the maximum current rating, voltage and phases of the appliances;
  - c. Obtain permission of the Engineer detailing the sockets to which the appliances may be connected.
- 27.11 The Engineer will not grant permission to connect until he is satisfied that;
- a. The appliance is in good condition and is fitted with suitable plug;
  - b. The appliance is fitted with a suitable cable having two earth conductors, one of which shall be an earthed metal sheath surrounding the cores.
- 27.12 No electric cable in use by the Contractor/Owner will be disturbed without prior permission. No weight of any description will be imposed on any cable and no ladder or similar equipment will rest against or attached to it.
- 27.13 No repair work shall be carried out on any live equipment. The equipment must be declared safe by the Engineer and a permit to work shall be issued by the Engineer before any repair work is carried out by the Contractor. While working on electric lines/equipment, whether live or dead, suitable type and sufficient quantity of tools will have to be provided by the Contractor to electricians/workmen/officers.
- 27.14 In case any accident occurs during the construction/ erection or other associated activities undertaken by the Contractor thereby causing any minor or major or fatal injury to his employees due to any reason, whatsoever, it shall be the responsibility of the Contractor to promptly inform the same to the Engineer in prescribed form and also to all the authorities envisaged under the applicable laws.
- 27.15 The Engineer shall have the right at his sole discretion to stop the work, if in his opinion the work is being carried out in such a way that it may cause accidents and endanger the safety of the persons and/or property, and/or equipment. In such cases, the Contractor shall be informed in writing about the nature of hazards and possible injury/accident and he shall comply to remove shortcomings promptly. The Contractor after stopping the specific work can, if felt necessary, appeal against the order of stoppage of work to the Engineer within 3 days of such stoppage of work and decision of the Engineer in this respect shall be conclusive and binding on the Contractor.
- 27.16 The Contractor shall not be entitled for any damages/compensation for stoppage of work due to safety reasons as provided in Para 31.18 above and the period of such stoppage of work will not be taken as an extension of time for completion of work and will not be the ground for waiver of levy of liquidated damages.
- 27.17 It is mandatory for the Contractor to observe during the execution of the works, requirements of Safety Rules which would generally include but not limited to following
- a) Each employee shall be provided with initial indoctrination regarding safety by the Contractor, so as to enable him to conduct his work in a safe manner.
  - b) No employee shall be given a new assignment of work unfamiliar to him without proper introduction as to the hazards incident thereto, both to himself and his fellow employees.

- c) Employees must not leave naked fires unattended. Smoking shall not be permitted around fire prone areas and adequate firefighting equipment shall be provided at crucial location.
- d) There shall be a suitable arrangement at every work site for rendering prompt and sufficient first aid to the injured.
- j) Requirements of ventilation in underwater working to licensed and experienced divers, use of gum boots for working in slushy or in inundated conditions are essential requirements to be fulfilled.

27.18 The Contractor shall follow and comply with all Safety Rules, relevant provisions of applicable laws pertaining to the safety of workmen, employees, plant and equipment as may be prescribed from time to time without any demur, protest or contest or reservations. In case of any discrepancy between statutory requirement and Safety Rules referred above, the latter shall be binding on the Contractor unless the statutory provisions are more stringent.

- a. Fatal injury or accident Rs. 1, 00,000/- : These are applicable for death Causing death per person
- b. Major injuries or accident causing Rs. 20,000/- : injury to any person, whosoever.25% or more permanent disablement per person To Workmen or employees

Permanent disablement shall have same meaning as indicated in Workmen's Compensation Act. The compensation mentioned above shall be in addition to the compensation payable to the workmen/employees under the relevant provisions of the Workmen's Compensation Act and rules framed there under or any other applicable laws as applicable from time to time. In case the Owner is made to pay such compensation then the Contractor is liable to reimburse the Owner such amount in addition to the compensation indicated above.

#### **28.0 CODE REQUIREMENTS**

The erection requirements and procedures to be followed during the installation of the equipment shall be in accordance with the relevant Codes and accepted good engineering practice, the Engineer's drawings and other applicable Indian recognized codes and laws and regulation of the Government of India.

# PART-I SCC

## SPECIAL CONDITIONS OF CONTRACT

### 1.0 General Particulars:

This part of the Bid Document relates to certain specific/special terms and conditions particular to the Contract. The provisions herein are to be read and understood in conjunction with the relevant provisions elsewhere in the Instructions to Bidders (ITB), the General Conditions of Contract (GCC) and Erection Conditions of Contract (ECC). The intent of provisions herein are specific to this contract and are, in general, supplementary to related provisions under ITB, GCC and ECC. However, in certain provisions which are contrary to those in ITB, GCC and ECC, the provisions in these Special Conditions of Contract will prevail.

### 2.0 Tender Fee:

- Payment of tender Fess can be accepted by RTGS/NEFT.

### 3.0 Earnest Money Deposit (EMD):

- Payment of EMD can be accepted by RTGS/NEFT.

#### Bank Detail

Sr.No.	Particulars	Requisite Details
1	Name of Bank	BANK OF BARODA
2	Name of Branch	HIMATNAGAR
3	Branch Code	8407
4	MICR Code	383012006
5	IFSC Code	BARB0VJHIMM (5th Digit in IFSC code Is ZERO)
6	Name of Account	THE SUPERITENDING ENGINEER, GUJARAT ENERGY TRANSMISSION CORPORATION LTD
7	Account No.	84070200001468

### 4.0 Declaration by bidder:

The Bidder shall sign the Declaration enclosed to this SCC and not furnishing the same will make the Bid invalid.

### 5.0 Technical Qualifying Criteria:

As per Qualification requirement clause No.- 2

### 6.0 Financial Qualifying Criteria:

As per Qualification requirement clause No.- 2

### 7.0 Price Inclusions (including Taxes & Duties):

7.1 The prices quoted shall be all inclusive of freight, Octroi, transportation, loading, –unloading & stacking at site of equipment materials received from construction store HIMATNAGAR after observing all store formalities of GETCO .

7.2 No extra payment toward any type of templates and erection tools /materials will be made.

### 7.3 **Goods and Service Tax (GST)** :

- i. Contractor has to submit the GST Registration certificate
- ii. Contractor has to submit invoice/Challan as documentary proof with each RA bill & Final Bill and in which it shall be specifically mention the nature of service & code SAC code under which the amount of service tax GST payable by contractor and payable by GETCO (if any) without fail.
- iii. GETCO will withheld the GST amount of contractor and it shall be reimbursed on production of documents evidences of payment made by contractor
- iv. The Contractor has to submit invoice to GETCO indicating following.
  - Name, address and GST registration no. of the service provider
  - Name and address of person receiving the service i.e. GETCO
  - Description and value of taxable service provided
  - The total GST payable thereon with bifurcation of GST payable by service provider and service receiver.
  - Rate and amount of taxes i.e. CGST/ SGST/ IGST/UGST
  - Place of supply along with the name of State, in case of a supply in the course of inter-State trade or commerce i.e. Out of Gujarat Supply
  - Applicable SAC CodeContractor has to also supply tax invoice as described under GST rules and Regulation indicating GSTIN
- v. Contractor has to provide Tax invoice in a standard format as per CGST act, CGST rules 2017 and GST invoicing rules containing all details as provided in Act and rules. Contractor / Supplier has to mention GST no. of GETCO i.e. 24AABCG4029R2ZC in the invoice invariably & failure of which payment will not be made.

Supplier/Contractor should charge GST in Invoice at the rate as agreed to / mentioned in acceptance of tender only and any deviation in the same shall not be accepted. Further, any additional liability of GST (later on due to wrong mentioning of GST rate, mis-interpretation of HSN/SAC Code, etc.) over and above as charged in the invoice shall be borne by the Supplier/Contractor. However, any refund received by the supplier / contractor on account of GST charged from the company; such refund shall have to be passed on to the company, along with interest if any. Such refund along with interest needs to be passed on suo-moto by the supplier / contractor.

Further, the Company has a right to recover the amount of GST along with penal interest at the rate of 15% per annum if GST charged is not paid / short paid to the government or fail to upload the details or uploads inaccurate particulars on GSTIN portal by the Supplier / Contractor within the stipulated time limit.

In case, Govt. revises the rate of GST rate / Code during the tenure of the contract, the provision of statutory variation clause shall apply.

#### **INPUT TAX CREDIT BENEFIT**

In the event of any statutory increase in the rate of Input Tax Credit and / or due to inclusion of any other additional item of their inputs / input services under the ambit of the Input Tax Credit provisions under the GST Act, subsequent to the date of submission of the offer, the same should be passed on to COMPANY and you should inform such changes to COMPANY from time to time.

#### 7.4 **Statutory Variations:**

Any statutory increase or decrease in the taxes and duties including GST and Cess as applicable or in the event of introduction of new tax/cess or cessation of existing tax/cess subsequent to suppliers offer if it takes place

within the original contractual delivery date will be to COMPANY's account subject to the claim being supported by documentary evidence. However, if any decrease takes place after the contractual delivery date, the advantage will have to be passed on to COMPANY.

Statutory Variation clause will not be applicable in case of Supplier / Contractor has opted for Composition Scheme under GST.

#### 7.5 **Income Tax**

Income tax at source at the prevailing rate will be deducted from bills in accordance with the provision of Income-Tax Laws and to that effect a certificate will be issued to the contractor.

#### 7.6 **Welfare cess**

- 1) As per the Welfare cess Act, the welfare cess @ 1% is applicable on supply and erection items for supply, erection, testing & commissioning of substation, transmission lines, EPC/Turnkey projects and civil works.
- 2) Contractor shall get registered under welfare cess Act before commencement of work. Office of the factory inspector is authorized at present as a registering authority.
- 3) GETCO shall pay the welfare cess by way of reimbursing to contractors on production of documentary evidence of payment.
- 4) The contracts for which supply or part supply of material are in the scope of GETCO, then contractors shall deposit welfare cess on estimated cost of supplied items to GETCO contractor on progressive basis of utilization. As this part of welfare cess is on GETCO account, the same shall be reimbursed to the contractor on receipt of request letter along with documentary evidence of payment. For calculation of welfare cess on supply part, valuation as per MR shall be taken and informed to the contractor for payment. This will be over and above the A/T value.

The modality of payment/ reimbursement of welfare cess will be as under.

- On receipt of A/T, the contractor / bidder will get them registered under Welfare Cess Act and submit the documentary evidence to the concern office.
- Before release of payment of first R.A.Bill, the contractor has to submit the documentary evidence of registration. Only thereafter, the bill will be processed for payment.
- Before release of payment of subsequent R.A.Bills, the contractor has to submit the documentary evidence of payment of welfare cess of previous R.A.Bill.
- Before release of payment of final bill, the contractor has to submit documentary evidence of payment of welfare cess of previous R.A.Bill as well as of this final bill.
- If the R.A.Bill happens to be first and final bill, then before release of payment, contractor has to submit documentary evidence of registration under Welfare Cess Act and evidence of payment of welfare cess.
- The welfare cess shall be reimbursed to the contractor on submission of copy of documentary evidence of payment by observing due formalities

#### 8.0 **SECURITY DEPOSIT**

8.1 The successful bidder has pay security deposit before commencement order & Submit LOA letter within 15 Days of from receipt of LOI.

8.2 The successful bidder will be required to pay an amount equivalent to 5 % of the value of the order as a Security Deposit for satisfactory execution of the contract. Such Security Deposit will be payable either in DD/BANK GUARANTEES/RTGS/NEFT payable at **HIMATNAGAR** / Bank guarantees from Scheduled / Nationalized/Cooperative Banks will be acceptable

8.4 No interest will be allowed on amount of Security deposit.

8.5 The Security Deposit- total shall be kept deposited up to completion of work finalization of final bill. The same shall be return on receipt of N.O.C. by the concerned EE (TR/Const.)

8.5 This security deposit is for the performance of contract and the same is liable to be forfeited by the in event of non-fulfillment of the term and conditions of this contract by the contractor.

8.6 Corporate Guarantees are not admissible.

8.7 The 'Signing of Contract 'and 'Contract Agreements' will be done as per Prevalent Terms and Conditions.

8.8 Contractor shall paid SD within stipulate time if SD is not paid by contractor than EMD Will be forfeited.

**9. Guarantees issued by following banks will be accepted as SD/EMD on permanent basis:**

**i. All Nationalized Banks.**

**(B) Guarantees issued by following Banks will be accepted as SD /EMD for the period up to March, 2027 Or the issuance of new Government Resolution on the same subject whichever is earlier. The validity cut – off date in GR is with respect to date of issue of Bank Guarantee is irrespective of date of termination of Bank Guarantee.**

No.	Bank Name	No.	Bank Name
1	A U Small Finance Bank	22	South Indian Bank
2	Axis Bank	23	Standard Chartered Bank
3	Bandhan Bank	24	Tamilnadu Mercantile Bank
4	Barclays Bank	25	Utkarsh Small Finance Bank
5	City Union Bank	26	Yes Bank
6	CSB Bank	27	Ahmedabad Mercantile Bank
7	DBS Bank India Limited	28	Nutan Nagrik Sahakari Bank Limited
8	DCB Bank	29	Nutan Nagrik Sahakari Bank Limited
9	Equitas Small Finance Bank	30	Rajkot Nagrik Sahkari Bank Limited
10	ESAF Small Finance Bank	31	Saraswat Co-operative Bank Ltd
11	Federal bank	32	SBPP Co-operative Bank Ltd
12	HDFC Bank	33	SVC Co-operative Bank Ltd
13	HSBC Bank	34	The Cosmo Co-operative Bank Ltd
14	ICICI Bank	35	The Gujarat State Co-operative Bank
15	IDBI Bank	36	The Mehsana Urban Co-operative Bank Limited
16	ICICI Bank	37	The Surat District Co-operative Bank
17	IDFC First Bank	38	The Kalupur Co-operative Bank
18	Jammu and Kashmir Bank	39	The Panchmahal District Co-operative Bank
19	Karnataka Bank	40	The Baroda District Co-operative Bank
20	Karur Vysya Bank	41	The Baroda Gujarat Gramin Bank
21	Kotak Mahindra Bank	42	The Saurashtra Gramin Bank

**9.0 GUARANTEE PERIOD:**

Total work executed shall be covered under guarantee period against any defect in poor workmanship etc. for a period of **one year** from the date of commissioning of substation/BAY/Line

**9.0A BAR CHARTS**

The Bidder shall furnish along with the bid, the bar charts and project schedules indicating starting and completion dates of each activity. This is mandatory condition the tenders without which shall be liable to be rejected.

**10.0 PENALTY FOR DELAY:**

10.1 The tenderer should note that the completion time allowed for carrying out the work should be strictly observed. Any delay that may take place in supply and erection beyond Contractual cutoff date stated as per stipulated delivery period shall be subject to the penalty at the rate of ½ % per week or part thereof on delayed portion of the work subject to ceiling of 10% of total contract value will be impose.

10.2 The penalty will be deducted from bills payable either against this contract or from any Bank Guarantee or any other amount payable under any other contract with the GETCO

**11.0 COMPLETION PERIOD**

11.1 Overall Completion period for this Contract will be **90 Days**.

11.2 Instruction for mobilization or stoppage period will be as per required as per ARC condition during this period of the Contract.

11.3 The completion date will be deemed to be the date on which all works on the Contract are demonstrated to be complete to the satisfaction of the /Engineer and is complete in all respects as per the terms and conditions of this Contract.

## **12.0 Presentation of Bills**

12.1 RA bills for allotted sub-order and work executed including cost of material consumed is to be prepared in triplicate and submitted to Site Engineers in-charge of the work, for necessary payment. These bills shall be serially numbered with suffix SE-I.

12.2 Balance 10% payment shall be released only after finalization of material account and passing of final bill. The contractor has to submit the final bill along with the material consumption statement and other required data of the work carried out within 3 months from the date of completion of work. These bills shall be serially numbered with suffix SE-I.

12.3 All the bills in accordance with the above clauses must be submitted with the following information:

- a) Item wise work done during billing period.
- b) Item wise cumulative work done.
- c) Account for material consumed and balance stock.

12.4 For non-submission or part submission of above information, an additional 5% amount of the Respective RA bill shall be withheld and shall only be released at the time of final bill.

## **13.0 Terms of Payment**

The payment for work done shall be made as under only after execution of the contract documents/furnishing of Security Deposit and on execution of substation erection work in scope of work order.

### **13.2 For erection works.**

- (i) 90% payment of amount claimed covering various activity such as structure, equipment erection, earthing installation, control wiring, battery charging e t c . works against R.A. bills duly certified by EIC within 60 days from the date of R.A. bill.
- (ii) Balance 10% of erection value shall be paid against completion of work only after Settlement of material account statement of items used, erected and successful Commissioning of transmission line the same amount will be release in final bill only and Payment will be made only after passing of final bill.

## **14.0 TAKING DELIVERY AND INSURANCE:**

14.1 The contractor has to take delivery from any store of S/S equipment and materials and keep in safe custody and transport to the respective sites and will be fully responsible for any damage to or loss of all materials at any stage during transportation or erection or taking over of the S/S by GETCO.

14.2 The Contractor has to open site store and ensure for safe custody of all the stored materials at his own cost.

14.3 The Contractor shall have total responsibility for the entire materials stored, loose, semi assembled and/or erected by him at site in his custody. The Contractor shall make suitable security arrangements at his own cost to ensure the protection of all materials, equipment and works from theft, fire pilferage and any other damages and loss. It shall be the responsibility of the contractor to arrange for security till the works are finally taken over by the GETCO.

### **14.4 STORAGE-CUM-ERECTION INSURANCE: -**

The contractor shall take suitable storage-cum-erection insurance cover at his cost to the extent of 100% cost of sub-station / line materials, which are required to complete the sub-station / line. Bidder shall have to take the comprehensive Marine Cum Erection (MCE) insurance policy against any loss, damage, theft, pilferage, fire etc. for the complete period of storage, erection and commissioning up to the time of taking over of the sub-station / line by GETCO. However, if the work is not completed within the stipulated time limit as mentioned into work order, the MCE shall be extended by the contractor up to the work completion and taking over of the line or S/S by GETCO. Moreover, the charge for extension of insurance shall be

borne by contractor if the delay is attributed to the contractor. The charge for extension of insurance shall be reimbursed by GETCO to the contractor on production of proof for extension of MCE if the delay is attributed on the part of GETCO.

The contractor shall deal directly and pursue the claim with the insurance company and shall be responsible in regard to maintenance of all insurance coverage as well as for settlement of claim. The proof of insurance policy taken by the contractor shall be furnished / submitted to engineer-in-charge of GETCO.

GETCO has to indicate approximate amount of the material required for erection to complete the scope of work is to be mentioned in tender document.

No material shall be issued to bidder/erection agency in absence of such insurance policy. The risk shall be covered for lifting of materials from store to final handing over to GETCO. Further, in absence of the above insurance policy, R.A.bill payment will be withheld. Value of Insurance is **Rs:3.00 Crore**.

- 14.5 In the event of any damage, theft, loss, pilferage, fire etc., Contractor will be responsible to lodge, pursue and settle all the claims with the Insurance Company for all items, materials and the shall be kept informed about it. Contractor shall replace the lost / damaged materials / items promptly irrespective of the settlement of the claims by underwriter and ensure that the work progress is as per agreed schedule. The loss, if any, such replacement will have to be borne by the Contractor and will not entertain any claim / representation in this regard. However it will be contractor's responsibility to insure the entire project till the S/S is taken over by the GETCO.

#### **15.0 LABOR LAWS:**

- 15.0.1 Persons below the age of 18 years shall not be employed for the work. No female worker shall be employed in the night shift between 07.00 p.m. and 06.00 a.m. next day.
- 15.0.2 Contractor shall maintain a valid labor license under the contract Labor (Regulation and abolition) Act for employing necessary manpower required by him. In the absence of such license, the contract shall be liable to be terminated without assigning any reason thereof.
- 15.0.3 The Contractor shall at his own expenses comply with all labor laws and keep the indemnified in respect thereof. Some of the major liabilities under various labor and industrial laws which the Contractor shall comply as under:
- i) Payment of contribution by way of Employer's Contribution towards provident Fund, Family Pension Scheme, Deposit Linked Insurance Scheme, Administrative charges, etc. at the rates made applicable from time to time by the Government of Gujarat / Government of India or other Statutory Authority.
  - ii) Payment of deposit in respect of each contract labor at the rate of Rs. 30/- or later prevailing rate with the Office of Commissioner of Labor as per the Contract Labor (Regulation and Abolition) Act.
  - iii) License fee as prescribed under the Contract Labor (Regulation and Abolition) Act and Rules framed there under depending upon the number of workmen.
  - iv) Paid leave facility and wages as per the provision of the Factories Act at the rate of one day for every 20 days of working.
  - v) Identity cards as prescribed under the Factories Act with photo affixed thereto, for identification.
  - vi) Payment of retrenchment compensation, Notice Pay and other liabilities as per Industrial Dispute Act. Any payment to the Contractor's employee arising out of any claim of disputes under the Industrial Disputes Act 1947 or any other Labor Laws.
  - vii) Payment of compensation in case of accidental injury.
  - viii) Provision of crèche if the female laborers employed are more than 30.
  - ix) Maternity Leave as per the provisions of the Maternity Benefit Act.

The above are some of the major liabilities of the Contractor in addition to other liabilities prescribed under the various Labor laws, in force from time to time, from Statutory Authorities like State Government/ Government of India, which the Contractor shall have to comply with.

#### **15.1 PROVIDENT FUND AND FAMILY PENSION SCHEME:**

The Contractor shall submit along with his bills (month wise) a statement regarding deduction against employees Provident Fund and Family Pension Scheme in respect of each concerned employee. Provident Fund and Family pension Scheme at the rate of 18% (or at the rate made applicable by the Government from time to time of the wages. The Contractor's contribution and his workers contribution towards Provident Fund and Family Pension Scheme shall be deposited by the Contractor with Regional Provident Fund Commissioner, Ahmedabad.

#### 15.2 DEPOSIT LINKED INSURANCE SCHEME

The contractor shall have to deposit ½ % of the wages in respect of employees who is a member of the Provident Fund, as the contribution to the Deposit Linked Insurance Scheme with Regional Provident Fund Commissioner, Ahmedabad.

#### 15.3 ADMINISTRATIVE CHARGES:

Administrative charges for maintaining Provident Fund Account shall be deposited by the Contractor with Regional Provident Fund Commissioner, Ahmedabad at the rates applicable.

#### 15.4 PAID LEAVE FACILITY:

Paid Leave Facility at the rate of one day for every twenty days worked by the Contract Labor, shall be provided by the Contractor to his workers. He shall maintain Leave Records, Leave Cards, for individual laborer, which shall be duly verified, approved and certified by the authorized Officer of the GETCO.

#### 15.5 WORKMAN'S COMPENSATION FUND AND EMPLOYER'S LIABILITY INSURANCE:

The contractor shall cover all his employees under workmen's compensation fund and under the liability insurance. The purchaser shall not be responsible for any payments of compensation to the workers/supervisor of the contractor for fatal or non-fatal accidents during the pendency of the contract.

15.6 The contractor shall employ adequate number of experienced skilled at site for daily supervision and for maintenance of various registers and records required under the law and contract. No payment for supervision shall be admissible

#### 15.7 CONTRACTOR TO INDEMNIFY THE GETCO:

The Contractor shall Indemnify the GETCO and every member officer and employees of the GETCO also, 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 herein above elsewhere and against all actions, proceedings, claims, demands, costs and expenses which may be made against the GETCO or Government for or in respect of performance of his obligation under the contract documents. The GETCO shall not be liable for intervention of authority Government for or in respect of performance of his obligation under the contract documents. The GETCO shall not be liable for or in respect of or in consequence of any accident or injury to any workman or other person in the employment of the Contractor or his Sub-Contractor and the contractor shall indemnify and keep indemnified the GETCO against all claims, demands, proceedings, cost, charges and expenses whatsoever in respect thereof or in relation thereto.

#### 15.8 WORKMEN'S COMPENSATION AND EMPLOYER'S LIABILITY INSURANCE

Insurance shall be affected for all the Contractor's employee engages in the performance of this contract. If any of the work is sublet, the Contractor shall required the Sub-Contractor to provide workmen's employer's liability insurance for the latter's employees, such employees shall be covered under the Contractor's Insurance.

#### 15.9 WAGES TO BE PAID & TIME OF PAYMENT ETC. BY THE CONTRACTOR

- a) The Contractor shall pay minimum wages per day to his Labors/ Workers as per rates fixed under the minimum wages act. The wages of every Contract Labor employed by him under this contract shall also be paid by him before the expiry of 7<sup>th</sup> day of the last day of the month in respect of the wages are payable (i.e. wages of a month have to be paid by him in the first week of the next month). Any default will result in cancellation of contract forthwith or else the contractor shall be punishable to the extent of Rs. 100/- per each day or as per the prevailing rules of Labor laws.
- b) The Contractor shall give his Telephone Number and Address to the GETCO, so that, in case of Labor trouble etc. the Contractor can be contacted. The Contractor shall arrange to have his office outside the factory work premises and the Contractor shall arrange to have his office outside the factory work premises and the Contractor shall keep himself present throughout the working hours.

15.10 REGISTRATION WITH PROVIDENT FUND OFFICE

- i) The separate P.F. code issued from P.F. commissioner is required to be taken by contractor.
- ii) If the contractor does not possess separate P.F. code number of RPF, his tender will not be considered for acceptance.
- iii) The contractor should mention separate P.F. code number allotted by PPF, along with the tender.

15.11 Termination of Contract:

In case of contractor fails to deliver the stocks or any consignment thereof within contractual period of delivery or in case the stores are found not in accordance with prescribed specification and/or the approved sample, the shall exercise its discretionary power either:

15.11.1 To recover, from the contractor as agreed, by way of penalty clause above, or

15.11.2 To purchase from elsewhere after giving due notice to the contractor on account and at the risk of the contractor for such stores not so delivered or other similar description without canceling the contract in respect of the consignment not yet due for delivery or

15.12 To cancel the contract.

In the event of the risk purchase of stores of similar description, the opinion of the GETCO shall be final. In the event of action taken under clause (A) or (B) above, the contractor shall be liable to pay for any loss which GETCO may sustain on that account, but the contractor shall not be entitled to have any saving on such purchases made against default.

The decision of the GETCO shall be final as regards to the acceptability of stores supplied by the contractor and the GETCO shall not be required to give any reason in writing or otherwise at any time for rejection of the stores.

15.12.1 MATCHING OF END COST:

In case the GETCO decides to award contract on matching end-cost basis, the bidder has to reduce all the quoted rates proportionately. The reduction on overall basis will not be accepted (i.e. all unit rates of erection schedule shall be reduced proportionately by difference in percentage). The confirmation for matching end cost shall be given within 7 (seven) days from the letter form.

16.0 VENDOR REGISTRATION: REGISTRATION AS A CONTRACTOR:

**Registration with HIMATNAGAR or any other GETCO office is pre requisite for participating in tender.** It is required to furnish documents of registration along with offer in Technical bid and the details at appropriate place in confirmation of details of bidder shall be given by the contractor

Sub. : As above Mention

In connection with above subject, I / we confirm the following:

- a) I/ we, the undersigned, have read and understand the Tender Specification for Work Complete with the entire tender Terms and Conditions.
- b) The price in the bid is firm prices in line with Tender Specifications and shall stand valid till completion of the Contract, if awarded.
- c) I/We declare that our bid is strictly in line with Tender Specifications and there is no deviation. Further, I / we also agree that additional conditions / deviations, if any found in bid, the offer shall be out rightly rejected without assigning any reason thereof.

Signature of Authorized representative of Company / Agency

NAME: \_\_\_\_\_

STATUS: \_\_\_\_\_

Name of BIDDER

#### **17.00 Use Of “Call Before u Dig” Application :**

- a. To issue suitable direction to the companies under GUVNL to mandate all excavators/digging agencies by adding the following clauses in all the work orders /Tenders being issued by conceded Authorities.
  - i. To do any type of digging only after prior intimation through “Call Before u Dig” Application and as per its term and conditions.
  - ii. To use the App before commencing any type of digging anywhere in the state.
- b. and to ensure that CBuD ” Application is mandatorily used by all the Nodal officers and Excavators working for respective companies.

#### **18.Clause for VMS**

#### **Implementation of Vendor Management System (VMS) for submission of Invoice by Vendor/Suppliers/Contractors (For Supply and Works Bills)**

To streamline and enhance the effectiveness of the invoice submission process by Vendor/Suppliers/Contractors, GETCO has successfully implemented VMS for Material and Supply bills. Vendor/Suppliers/Contractors has to get itself registered on <https://vms.guvnl.com/> . It's one login credential for all GUVNL group companies for uploading of invoices.

**Relevant SOPs for Vendor Registration and Invoice submission is given on <https://vms.guvnl.com/> .**

#### **Key Features of the Vendor Management Portal:**

1. **Vendor Registration:** Supplier/ Contractor login / password will be provided on request by respective company, one login credential for all GUVNL group companies for uploading of invoices.
2. **User-Friendly Interface:** The portal boasts an intuitive, user-friendly interface, ensuring easy navigation and efficient submission of invoices by Suppliers/ contractors.
3. **Secure Access:** We prioritize the confidentiality and integrity of data exchanged during the invoice submission process. The portal provides secure access for Suppliers/ contractors, safeguarding sensitive information.
4. **Dashboard:** The dashboard shall show the details of Total Invoices uploaded, Invoices under Process, Invoice not processed due to want of documents, payment released etc. so that the Supplier/ contractor can view the status of their uploaded invoices. It also shows the status of latest uploaded invoices.
5. **Uploading Invoices:** The system facilitates the Supplier/ contractor to upload the Invoice of any of the GUVNL group company including GETCO along with relevant documents like Tax Invoice, Commercial Invoice, Proper Dispatch Certificate, Lorry Receipt, Test Certificate, Advanced Stamp Receipt etc. for supply bills and Tax Invoice, PF documents, GST Challans, Welfare cess challans, Insurance copies etc. in one file as per the AT / PO/ Work Order Terms and Conditions.

Once invoice is submitted, auto acknowledge email will be sent to supplier/ contractor along with the details and name of file uploaded, from [no-reply-vms@gebmail.com](mailto:no-reply-vms@gebmail.com).

6. **Needs Attention:** In case there is a shortfall of documents for processing of Invoice by GETCO, the respective division shall update the status of “Needs Attention” for the uploaded Invoice. Submitted Invoice detail can be

changed by Supplier/ Contractor, Location details and requested document can be re-uploaded by Supplier/ contractor.

7. **Invoice Reject / Accept:** Submitted Invoice along document is completely accepted or completely rejected, supplier/ contractor cannot modify the details.
8. **Payment Under Process:** This status shows that the Payment voucher verification and accounting process started by the GETCO.
9. **Payment Done:** Once the Billing process is completed and payment is released, the status of the uploaded invoice will be changed to Payment done. Further, once payment is released, email will be sent from IFAS from email id [no-reply-ifas@gebmil.com](mailto:no-reply-ifas@gebmil.com) to supplier's /contractors 's registered email id with respective companies.
10. **Payment Advice / Reports: Invoice wise details of Invoice amount, deductions, Net Payment amount etc.** will be available. Supplier / Contractor can login in to the system any time and can track and view the status of the invoice with Payment details.
11. **eMail Us:** VMS related suggestion and difficulty can be mailed back to us.

We encourage you to adopt the newly developed system immediately, to avail the benefits of enhanced efficiency and transparency in our Bill processing and payment processes.

We look forward to your cooperation in this endeavour and anticipate a smoother and more streamlined invoicing process.

#### **19 .Clause for Updating of MSME Details**

As per Circular 06/2024-25 dated 17.08.2024, all contractors / vendors / suppliers / service providers are required to update their MSME details on the GETCO website at <http://getco.co.in/msme/>.

New contractors / vendors / suppliers / service providers must first register at <https://getco.co.in/gst/>.

### **PART – II (Erection Work)**

#### **3.1.0 SCOPE :**

3.1.1 The scope for erection works covered under this section consist of :

- i) Taking delivery of equipment's and other material from the GETCO's stores, checking them, transporting to site's stores and keeping in safe custody by contractor.
- ii) To take suitable storage-cum-erection insurance of equipment's/materials issued by the GETCO.
- iii) Distribution of all materials to erection site at 66 KV above mention Sub Station.
- iv) Structure/Equipment erection including fixing of attachments, accessories and tack-welding of structures.,
- v) Stringing of ACSR/AAAC Panther/Zebra conductor bus with fixing of insulators, Hardware, dampers, spacers etc.
- vi) Workmanship guarantee of all the activities carried out from (i) to (v).

3.1.2 The successful Contractor shall carry out all addition/alteration required to complete the substation for commissioning.

3.1.3 The GETCO will supply equipment's, structure materials, bolts-nuts, structure accessories / attachments, insulators, insulator-hard wares, conductor, accessories, ground wire, ground wire accessories, GI Earthing strip, Control cable etc. required for erection of equipments and other associated works.

3.1.4 All works shall be carried out in accordance with the revised and latest Provisions under Indian Electricity Act and Rules made hereunder.

3.1.5 The contractor at his own cost shall arrange all the erection tools required during execution of work. The

Contractor solely is responsible for any damage and / or loss of his erection tools.

- 3.1.6 The Contractor shall be fully responsible for completing all the above works till the complete substation is taken over by the GETCO, and thereafter up till guarantee period.
- 3.1.7 The methods of erection are not dealt with in detail but are left to the Contractor who shall exercise his own judgment with regards to actual handling of equipments & materials and in deciding upon the best methods to be adopted for all the erection activities.
- 3.1.8 The successful bidder shall carryout all the erection works in accordance with structural drawings, and other erection drawings etc. provided by the GETCO.

### 3.2.0 **LAYOUT OF SUB STATION**

- 3.2.1 The proposed layout of the substation is available with concerned field office. The bidders are presumed to have acquainted themselves with the site before submitting their offer.
- 3.2.2 The successful bidder has to collect from concerned field office the detailed layout drawing along with the following drawings for the substation duly approved by the GETCO immediately on receipt of the Order. He shall also arrange visit of proposed site jointly with GETCO's representative for important marks coming across the scope of works under the contract. Structural drawings of 66 KV Structures listed at Schedule –B 3.3.0

### 3.3 **TECHNICAL INSTRUCTIONS TO THE BIDDER**

- 3.3.1. The works shall be carried out strictly as per the erection manuals and shall fully comply with the relevant Indian Standard. The IE rules and Acts in force from time to time shall also be applicable during pendency of the contract.

### 3.4.0 **ERECTION AND COMMISSIONING TOOLS & TACKLES.**

- 3.4.1 The contractor shall provide all tools/tackles jigs and fixtures winches, alignment tools, welding sets, breaker handling devices all consumable items and construction equipment as required to install the equipment's and to complete the work in all respects and shall necessarily include (but not limited to ) bolts, nuts, rivets, welding rods, shims, wedges, packing sheets, packing compounds, oil installation and protection of individual equipment in storage and during erection.
- 3.4.2 This shall also cover proper alignment, tack welding tagging, laying marking of and connection of cables, fabrication supply and installation of all support structures for installation of various electrical equipment and cables
- 3.4.3 Provision of cable glands, ferrules, and cable lugs tags sealing kit (for HT cables) shall also be arranged by the contractor.
- 3.4.4. Erection of various equipment shall be done strictly as per manufacturer's instructions
- 3.4.6 All additional iron framework erected to put the equipment in operational condition shall be provided with two coats of primer and two topcoats of finish paint.
- 3.4.7 Special care shall be taken to make the enclosed equipment protected against entry of rats, lizard, and creeping reptiles, which may create electrical short circuits.

### 3.5.0. **COMPLETION OF ERECTION (GENERAL)**

- 3.5.1. Equipment shall be considered to have been completely erected when the following activities have been completed.
- 3.5.2 Moving of all equipments to the respective foundations
- 3.5.3. Fixing of anchor bolts or tack welding as required.
- 3.5.4 Leveling and alignment of equipment.
- 3.5.5 Assembling of all accessories such as relays, CTs, PTs, meters instruments etc. as described in the job

specifications.

3.5.6. Drying of equipment as required and testing of oil for dielectric strength.

3.5.7. Filtration and filling of oil as required.

3.5.8. Cable laying, termination with continuity checks.

3.5.9. Applying of finishing coat of pain wherever required.

3.5.10. Mounting of lighting fixtures & connections.

3.5.11. Testing of all system with operation of all protection system.

3.60 **ERECTION OF SWITCHYARD STRUCTURES.**

3.6.1. Erection of switchyard structure shall mean erection of gantry column, beams, equipment support structure and lighting mast, VHF masts, watch and ward observation posts if any.

3.6.2. The foundation work of switchyard structure is not in the scope of this tender. The foundation with concreted anchor bolts shall be made available by well in time to enable the contractor of this work to get a clear working front.

3.6.3. The switchyard structure shall be made available to the contractor in the knocked down condition either at site or from any other store. Small parts like cleat, plate fasteners step bolts and other accessories (if any) shall also be supplied as above separately

3.6.4. Before commencement of the erection work, the contractor shall check cast foundations and anchor bolts for their individual and mutual distances and also for the correctness of concreted bolts in terms of number and verticality. In case of any disagreement with the lay out drawing, the matter may be referred to Engineer in charge for remedial measures who in turn will arrange such remedial measures. However, the contractor shall also render necessary assistance in the matter.

3.6.5. The erection of structure shall be done strictly as per the approved set of structural drawings to be given . The erected column for bringing the structure in alignment or bringing the structure in plumb shall be allowed.

3.6.6. The erection of column/beams shall be done in phased manner on already erected column. The elevation faces of the beam should be first fastened to the column one by one and thereafter plan bracings should provide one by one to complete the beam geocentric Pre-stressing of beam member for alignment should be avoided. In case of difficulty in fabricated material or otherwise, the Engineer in charge should be contacted for remedial measures who in turn will take necessary action. However the contractor shall also render necessary assistance in this work to Engineer in charge for speedy completion of work. The load point's rings bracing shall also be provided as per drawings.

3.6.7. The Cross-connected beams should be perfectly at right angle and matching with respective faces of the column. No column or beam shall be erected with missing members.

3.6.8. The method of erection is not being dealt with in detail here. However, while making the rigging arrangement, it should be ensured that no column beam or part thereof is damaged due to misjudgment. All the members, plates, cleats, bolts, butts and other accessories should be fitted to the column, beam support structure as per the approved drawing.

3.6.9. After the erection of beam and column, the bolt nuts should be properly tightened and center punched. The thread protruding bolt should be dented in the contact surface of nut at 3 point 120 degrees apart to eliminate loosening of bolt due to vibration. The stringing of bus bar conductor be done only after getting certificate from Engineer. in charge that all bolts &nuts are provided as per approved drawings and tightened.

3.6.10. The equipment support structure should also be erected like gantry column. They should well be in plumb with all members fitted as per approved drawings and bolt nuts properly tightened. The contractor shall also take care to see that the alignment of foundation of equipment support structure is well done. The equipment support structures shall be erected as per the approved drawings.

3.6.11 **SWITCH YARD LIGHTING & CONTROL ROOM ELECTRIFICATION**

1. Rate is to be quoted with name of Company i.e. Bajaj/Crompton/Philips etc.
2. Inspection of the entire luminary is to be inspection at Bajaj/ Crompton/ Philips Show room then it is to be dispatched.
3. All the Luminary is to be supplied with all the accessories like round plate, flexible wire, lamp starter 40W/ 20W Fluorescent tube etc.
4. This work also includes commissioning of existing wiring with minor repairing / replacement of ceiling rose plate etc.

5. GI.pole is to be inspected at works at the cost of contractor.
6. Sample of Allu.cast J.Box will be given by GETCO. & supply as per sample
7. Excavation for pole, Earthing, cable lying is to be carried out in any type of soil, except Hard rock. In case of excavation in Hard rock Rs. 420 per CMT shall be paid separately.
8. Tube light fixture fitting in CR is to be carried out with long GI Pipe & is to be properly hanged and fitting and ceiling as per EIC.
9. Ceiling Fans is to be selected at authorized showroom & inspection is to be done at show room colour of fan should be white only.
10. Exhaust Fan & Pedestal Fan should be purchased only after selection of make & model at authorized showroom.
11. Supply storage and installation of various lighting fixtures, complete with lamps and accessories.
12. Supply storage and installation of lighting panels.
13. Laying and termination of 415 V PVC armored power cable from lighting panel to the junction box at the bottom of the gantry of lighting fixtures respectable and looping from one gantry to other shall be buried underground. Contractor shall quote the unit price of cable erection separately. Cables glands and lugs are included in contractor's scope.
14. Laying and termination by 415V PVC armored power cable from street lighting panel to street lighting poles and power cable, for looping from one gantry to gantry shall be in scope of lighting contractor these cables shall be buried underground. Cable glands and lugs are included in contractor's scope.
15. The contractor shall fully co-ordinate the design and the work with engineer in charge and various other contractors of the project.
16. Materials and components not specifically stated in this specification on and which are necessary for satisfactory installation and operation of the lighting system shall be deemed to be included in the scope of the specification.
17. The design manufacture and performance of equipment should comply with all currently applicable states, regulation and safety code in the lighting where the equipment will be installed nothing in this pacification shall be construed to relieve the bidder on these responsibilities.
18. Unless otherwise specified, equipment offered shall conform to latest application Indian and IEE
19. standards equipments, complying with another authoritative standards such as British, U. S. A. VDE etc, will also be consider if it insures performance equivalent of superior of Indian standards in each
20. cases the bidder shall clearly indicate the standard adopted and furnish a copy of the latest English version of the along with the tender. Should there any dispute of design, work shall follow.
21. Indian standards as per latest amendment should be followed
22. IS : 1913 General & Safety requirement for electric lighting fitting.
23. IS : 3528 Water proof electric lighting fitting
24. IS : 4012 Dust proof electric lighting fitting
25. IS : 4013 Dust tight electric lighting fitting
26. IS : 1777 Industrial lighting fitting with metal reflectors.
27. IS : 3287 Industrial lighting fitting with plastic reflectors.
28. IS : 2493 Well glass lighting fitting for use underground in mines. (Non flameproof type)
29. IS: 1947 Specification of flood light.
30. IS: 2149 Luminaries for street lightings.
31. IS: 2183 High pressure mercury vapour lamps.
32. IS: 1534 Ballasts for use fluorescent lighting ( Part-1 ) fitting
33. IS: 1569 Capacitors for use in fluorescent lighting fitting
34. IS: 2215 Starters for fluorescent lamps.
35. IS: 2713 Tubular steel poles.
36. IS: 5133 Steel and cast iron Boxes.
37. IS: 2629 Hot dip galvanizing of iron & steel.
38. IS: 694 PVC insulated cables for working voltages up to and including 1100V
39. IS: 732 Code of practice for electrical wiring insulation (System voltage not exceeding 650 volts.)
40. IS: 3043 Code of practice for earthing.
41. Indian Electricity Act.
42. Indian Electricity Rules.
43. The Standards mentioned above are available from Indian Standards institution. Manok Bhavan, 9, Bahadoor Shab Zafar Marg, NEW DELHI – 110 001.
44. All sodium/Mercury vapour lamps fixtures shall be complete and with accessories like ballasts, igniters, power factors improvement capacitors etc.
45. This shall be mounted as per as possible in the fittings assembly only, if those cannot be accommodated inside then a separate metal enclosed box shall be included to accommodate the accessories and in addition with fuse and terminal block suitable for loop in loop out connections. Outdoor type fixtures shall be provided with outdoor type weather proof

- box. They shall indicate starting time of these lamps to get full light output. Curves for starting characteristics and variation of lamps characteristics with varying supply voltage etc. should be furnished by the bidder.
46. Each lighting fixture shall be provided with end earthing terminal suitable for connection to 8 SWG GI earthing conductor.

**3.6.12 CABLE TERMINATION BOX :**

1. Cable termination box for gantry structure shall be completely weather proof conforming to ISW 55 and provided with lockable door and HRC fuse mounted on fuse carrier and fuse base assembly. The terminal shall be stud type and suitable for two Nos. 4mm<sup>2</sup> cable necessary arrangements for glanding cable along with supply of gland are included in tender scope.
2. The bolts nuts and screw required for erection is to be supplied by the contractor at his own cost.
3. Outside and inside the cable terminal boxes will be furnished in two coats light grey colours.
4. Finished painted appearance on equipment shall aesthetically pleasing appearance free from dots and uneven surfaces.
5. Touch up paint at site shall have to be done if necessary.

**3.6.13 SECTION PILLARS :**

1. The contractor shall supply and installation section pillars.
2. The section pillars shall be suitable for mounting on platform. The bracket bolts nuts and screw required for the erection shall be included in the installation rate.
3. Section pillars be of mentioned size and of 15 SWG 1.5mm sheet steel and shall have bolted cover with good quality gasket lining.
4. The section pillars shall have the following identification marking.
5. Circuit Nos. on the top.
6. Circuit no. with ferrules ( inside ) as per drawings
7. Danger sign in case of 415 volt section box.
8. The section pillars shall be weather proof type with gaskets conforming to IP-55 as per IS-2147. The connections shall be property sealed for worming proofing.
9. Section pillar shall be provided with two separated and earthing terminals suitable to receive earthing strip of size 50 x 6mm C.I. Flat with section pillars.
10. Outside and inside the cable terminal boxes shall be finished in two coat of primers and finished paints shall be of slightly different shade to affably inspection of painting.
11. Finished painted appearance on equipment shall present ethnically looking appearance freedom dots and uneven surface.
12. Touch up paint at site shall have to be done if necessary.
13. The missionary platform for section pillar must be of size 3' (L) x 1.5'(W) x 3'(H)

**3.6.14 STREET LIGHT POLES:**

1. These shall be of steel tubular type swaged type welded GI tubular pole with suitable arrangement at the top of the pole for fixing the lighting fixture. The poles shall be fabricated out of medium class black steel pipe, seamless type with specified thickness, IS-2713-1969, each pole shall be fabricated on automatic pole swaging machine tampered in and shrunk with welding outside having overall length of 7.00 meters and the effective length of section as under:
2. Bottom 3.00 meters having outside diameter 114.3mm and wall thickness 3.61mm with base plate of size 3000 x 300 x 6mm which welded as shown in drawing.
3. Middle 2.00 meters having outside diameter 87.9mm and wall thickness 3.25mm.
4. Top 2.00 meters having outside diameter 76.10mm and wall thickness
5. On the top of the tubular pole as fabricated above one single/double side brocket of 1 meter length ( diameter of pipe suit fitting entry ) tilted at an angle of 20 shall be welded and fixed at the top by means of fixing bolts, 4 Nos, and top cap by fixing bolts 2 Nos as shown in drawing. The most shall have attended a reducer having suitable diameter for mounting street light fixture.
6. The pole and wall mounted G.I. pipe post shall be supplied with one M.S water-tight junction box fabricated from M.S. sheet of 14 SWG with 15 Amp 4 way heavy duty Bakelite connector brass neutral link rewire-able fuse rubber gaskets etc.
7. Inspection of poles shall be carried out at the work for various tests under IS-2713 & 1969 before it is dispatched to the concerned site
8. The junction box should be provided with proper bracing arrangement with poles by means of G.I. strips. The junction box should have two/three holes at the bottom to accommodate two/three brass cable glands of suitable size for the cable to be used the cable glands of approved make shall be supplied by the contractor.
9. The pole including junction box shall be painted with one coat of anti-corrosive oxide primer before dispatch to site and two coats of aluminum paint of approved mark (preferable ASIAN paint )

10. The wall mounted G.I. pipe post shall be painted with one coat of anti-corrosive oxide primer and two coats of aluminum paint. The junction box shall be applied one coat of anti-corrosive oxide primer and two coats of black enamel as per instruction of engineer-in-charge.

3.6.15 **INSTALLATION OF POLES AND WALL MOUNTED G.I. PIPE POST:**

1. Installation of the poles shall be done as per drawing. The depth of pole to be done in ground shall be 1/5th of total pole length or as specified in drawing whichever more. The pole shall be grouted in pit of 450 x 450 x 1500mm with cement conceal (1:3:6) Before the placement of pole in the pit 100mm thick 450 x 450mm (1: 3: 6) cement concrete bed shall be prepared and only after drying, poles shall cast all around the pole, Above finished ground level 2 Nos. of light duty 32mm or 38mm diameter PVC pipe, each of 1 meter length for cable entries and 10 SWG G.I. earthing wire shall also be provided and laid during the pedestal casting by the contractor
2. The concrete shall be protected from premature drying by curing for at least seven days after pouring all concrete surfaces from 150mm belowground level to top shall be finished concrete all the materials for civil and electrical works shall be arranged and provided by the contractor.
3. The G. I. pipe post shall be fixed on the face of wall at suitable height by means of pairs of wall clamps must and bolts.

3.6.16 **CABLE WORK:** PVC insulated PVC outer and inner sheet armored copper conductor cables suitable for 1100 volts A. C. as per IS: 1554 (Part-1-1964) of size as specified in schedule of quantities. The cables should be of approved make any of following amicable/C.C.I / Unistar / Glostar C. C. of equivalent subject to approval of competent authority.

1. **EARTHING OF TUBULAB POLES :** For earthing tubular poles G. I. wire of size 8 SWG is to be laid, along with the control cable in trench. The connection to the studs provided on tubular poles is to be carried out with this continuous earth wire with required size of washers and nuts. Above earth wire laid along with the cable is to be connected at earthing pits in switch yard as per instruction the same.
2. **INSTALLATION STREET LIGHTING LUMINAIRE:** This includes fixing of street light fitting complete with accessories and clamps on the pipe/brackets, connecting it with 2 x 2.5 Sqr. Mm 7/0 57mm dia PVC insulated and PVC insulated copper flexible conductor from water light junction box, testing and commissioning the same.
3. **INSTALLATION POST TOP LUMINAIRE :** This includes providing and installations of post of lantern complete with all accessories and lamp, connection it with 2 x s 5 Sgr. mm 7/0. 67mm dia PVC insulated and PVC sheathed copper fixable conductor testing and commissioning the same. All the
4. Fittings required for fixing the luminaries such as reducer coupler gasket and all type of hard wires shall be provided by the contractor himself. All tools and tackles required for the entire work shall be arranged by the contractor. In any of board will not provide any such facility whatsoever. All materials shall be got approved from E.E. (const) Mehsana before commencement of work. If there is any dispute regarding interpretation of specifications the decision of Ex. Engineer (Const) Mehsana shall be final and binding to the contractor.

3.7.0 **GANTRY STRINGING (BUS BAR STRINGING)**

- 3.7.1 After the erection of gantry structure and equipment support structure is over, the contractor shall take up bus bar and line gantry structure stringing.
- 3.7.2. The configuration of bus contractor shall obtain type of conductor to be used from the purchaser well in advance. The sag and tension of the bus bar conductor and line conductor shall be coordinated with the help of Engg in charge so that a mutual distance of the strung conductor and the ground clearance of the strung conductor do not cross the limit set out in the electricity rules and acts.
- 3.7..4. The method of handling the conductor accessories is not dealt in details, however, contractor can himself get informed about the same and sees that conductor and other material is handed over properly and is string scratch free to the extent possible. No joint or use of repair sleeve will be permitted in the bus bar and line gantry stringing. While stringing between twin and quadruple bundle conductor, care shall be taken to keep tension in all sub conductors equally. Adjustment in the sag shall be carried out by sag adjustment plate if provided in the tension insulator strings.
- 3.7..5 All the insulator strings to be used on the structure shall be properly cleaned with the cloth. Compression dead end joints of the conductor shall be made after proper marking. There should not be any difference in he position of dead end compression joints amongst the sub conductors of a twin or quadruple bundle conductors. All the tension insulator string shall be double tension type. The pilot insulator string

or a guide insulator string shall be single suspension type. The corona control ring space clamp and other accessories if any on insulator stringing shall also erected as per the drawing.

3.7.6. The earth wire to shield the conductors from lightning stroke shall be provided along the column in each bay of the switchyard and across, as per the switchyard layout and sectional view drawing and as per the instruction of Engineer in charge. the earth wire shall be fitted with all accessories like suspension clamp, tension clamp cross by clips, copper earth bold etc. completed. No mid span joint shall be permitted in the switchyard earth wire stringing.

3.7.7. After the bus bar and line gantry stringing work is over, the contractor shall provide droppers for the equipment connection to bus bar or line conductors by using prescribed clamps and connectors. The configuration of dropper shall be obtained by contractor from the as per requirement. The dropper is to be provided with ACSR Panther conductor.

### **3.8.0 ERECTION OF SECONDARY EQUIPMENTS.**

3.8.1. The secondary equipments like PI, CT, CVT, PT, LA (Surge arrestors) wave trap etc. shall be procured by the contractor from the site store center or other store centers of the and transported to the site at the cost of contractor. The contractor shall also do loading and unloading of the equipment.

3.8.2. After the arrival of equipment at site, packing shall be gently removed without causing any damage to the equipment. The equipment shall be checked for its correctness of dimension, make etc. as per the approved drawing. The equipment then shall be cleaned by a piece of cloth and made ready for erection.

3.8.3. The equipment shall be mounted on the ready pedestal (of masonry) or steel structure as the case may be and checked the same for its verticality. Construction of masonry pedestal is not in the scope of this work.

3.8.5. In case of CT, PT and CVT, the junction box or terminal box of the equipment shall be opened, cleaned and all their connections should be checked.

3.8.6. The arcing horns or corona control rings shall be provided as per the approved drawing. Similarly all fittings etc. shall also be provided as per the approved drawings

3.8.7. The electrical connection of the equipments through jumpers or through 4" aluminum pipe shall be carried out along with the cable connection of respective equipment to the marshalling kiosk or to the control relay panels. The connection of high voltage terminal of equipment shall not be resorted to, unless secondary connection or cabling work to control equipment is over. Testing of equipment shall also be done to ensure the correct wiring sequence of the equipment and continuity before energizing equipment by EHV

3.8.8. Polarity of the equipment to be connected on HV side should be checked prior to erection. The oil level (if any) of the equipment should be checked for its totality. If level is found to be inadequate, topping filling of oil should be resorted . The will supply the quantity of oil required.

3.8.9. Fuse, links, etc provided in the secondary box of the equipment shall be checked for their position and continuity and any lacuna observed will be set right before taking the equipment for commercial use.

### **3.9.0 ERECTION OF CIRCUIT BREAKER :**

3.9.1. The circuit breaker shall be taken delivery from the site/other stores of and transported to the work place well in time on loading/unloading. The crates containing the insulators and important parts and accessories shall be opened carefully keeping them in their proper position. Insulator parts and other accessories shall be thoroughly cleaned for any deposits of dust or other particles.

3.9.2. The breaker shall be brought on the pedestal of masonry or steel frame as the case may be) in upright position without any inclination. The main parts of the equipments shall be assembled as per approved drawing to be submitted by the GETCO to arrange Service of commissioning engineer of circuit breaker manufacturer. However, the contractor will not remain contented with the instruction and guidelines given by the commissioning engineer and shall also use his own judgment in better erection of commissioning practice of circuit breaker.

3.9.3. After the placement of circuit breaker in position the kiosk of the breaker shall be thoroughly inspected and any lacuna found shall be reported to the Engineer in charge of the work. The HT terminal connection shall be done only after the terminals of the equipment kiosk are made to the marshalling kiosk and or to the control/relay panels.

Polarity of the equipments shall also be ensured before physical erection.

3.9.4. The method of erection of breaker is not dealt with in details; however, it is recommended that breaker poles shall be erected only by using telescopic crane or other suitable mechanical arrangement. The rigging should be tool proof.

3.9.5. The operating mechanism in the breaker Kiosk and contacts as well as the power supply circuits (AC/DC)

shall be properly checked for its operation worthiness. All piping for gas/air shall be laid as per the approved drawing. The air receiver or compressor shall be positioned as per the relevant drawing. Minor fittings and fabrication or grouting work required to place these articles or accessories shall be done by the contractor without any extra cost to the purchaser. In case of breakers with spring mechanism the trials of the mechanism by actuating should be done to ensure its' line worthiness.

3.9.6 EHV side of the breaker should be aligned to a incoming and outgoing bus conductor.

While erecting the breaker, the operating mechanism without the porcelain insulator should be laid perfectly to avoid any mal functioning of the breaker.

3.9.7 Earthing points of the breaker as well as attached Kiosk shall be connected to earth grid by means of risers already available nearby the equipment. Any other erection checks and pre-cautions indicated in the Manual furnished by the respective supplier of the equipment shall be studied well by the contractor and the provisions there of shall be implemented as far as possible.

### **3.10.0 ERECTION OF POWER TRANSFORMER**

3.10.1 The purchaser laid readily on the rails and plinth shall make a power transformer of appropriate capacity available. However, the contractor using proper tools shall do minor adjustment or shifting requirement for proper alignment of the equipment and tackles jacks taking due care.

3.10.2 Bushing of HV, LV, and IV side shall be picked up from the site or other store of the purchaser and shall be made open by removing the casing/covers and packing whatsoever may be. The bushing shall be cleaned by the cloth. The bushing shall be handled very carefully and preferably should be opened and erected in presence of the Engineer In charge or his authorized representative. Before taking up the erection work of bushing and accessories, conservator tank and the transformer tank should be thoroughly cleaned from outside to remove all dust and other material deposited on it.

3.10.3 For fixing the bushing, the opening provided on the transformer tank/turret shall be removed and bushing should be connected to it. The current transformer and other accessories in the turret should be carefully handled while erecting bushings.

3.10.4 The radiators should be mounted on the pedestals already available at site. The proper leveling and alignment of the radiator should be done. Any minor nature of civil or foundation work, if required should be done by the contractor at his cost. However, if already provided pedestal are totally misaligned and it is not possible to erect radiators upon it with slight modifications, the matter should be brought to the notice of Engineer in charge who will take appropriate action to remove the anomaly. As a matter of fact, the contractor may, before taking up the erection work on hand, satisfy himself that the alignments of pedestal provided for various radiator and piping headers are as per the approved drawing from the respective supplier of transformer and remedial measures should be taken much ahead of actual erection work.

3.10.6 The Kiosk of the equipment shall be inspected for its internal wiring fuse, link temperature indicator, de-humid fire power connection, control circuits etc. If any deviation compared to the approved drawing is observed, the matter should be brought to the notice of Engineer in charge and if it is of trivial nature, corrective measures should be taken by the contractor himself. All the piping or wiring from various measuring points to the Kiosk should be checked for its trueness and continuity.

3.10.7 Buchholz relay will be erected on the transformer tank as per the standard practice.

3.10.8 After the erection of various accessories indicated above, filling of oil under vacuum should be started. If required random sampling and testing of oil are being filled in should be carried out. The oil level in the conservator tank, condenser bushing etc. should be checked for its desired mark. After the oil filling work is over, final filtration of oil to obtain desirable low PPM should be done. Filter machine of 1000 GPH capacity having one pass facility of reputed make approved by Engineer in charge for filling and filtration work shall be brought by the contractor himself.

3.10.9 Internal testing on the transformer and its accessories for operation worthiness shall be done following oil filtration work. However, the commissioning of the transformer either from LV or HV side should be done only after the installation of control panels in the control room, its connections to the transformer and complete unit testing of transformer. The commissioning work should be done as per the instruction of Engineer in charge or his authorized representative.

### **3.11.0 ERECTION OF ISOLATORS.**

- 3.11.1 Isolators of the switchyard shall be with or without earth blade type. centre breaks type etc.  
The isolators shall be procured by the contractor from the site stores of the and transported to the work site.  
All the spare parts shall be properly unpacked cleaned and made ready for erection.
- 3.11.2 Before erection, the contractor shall obtained copies of approved drawing of respective equipments. The isolators shall be erected on the ready galvanized structures. However, foundation for them will be available readily the respective points in the switchyard.
- 3.11.3 The contractor shall check the erected support structure for their alignment vertically and tightness of fasteners before mounting the isolators parts on them. The contractor shall also verify the mounting arrangement for the operating mechanism on this structure and suitable for the same. In case of any shortcoming the matter may be reported to engineer in charge. Any modification of trivial nature for the structure of fixtures shall be carried out free of cost.
- 3.11.4 The parts of the isolators, fixed and moving contacts earthing rode etc. shall be handled very carefully to avoid breakage or distortions. The erection shall be carried out using mechanized erection tools. The polarity of the isolator polls shall be properly identified and also the direction of the opening should be pre-determined. It should be ensured that in the entire switchyard the isolator open and close uniformly (direction point)
- 3.11.5 The operating mechanism for the line contacts shall be thoroughly checked for their accessories as per approved drawing and it should be ensured that all the connection fuses links dehumidifiers lighting sockets electric motors are in their proper position. Any deviation from the approved drawing should be got sat right with the help of engineer in charge. Position. Any deviation from the approved drawing should be got set right with the help of Engineer-in- Charge.
- 3.11.6 While erecting the isolator, it should be ensured that it should be properly aligned with respect to bus conductors or line conductor bus provided in the switchyard: The erected Isolator shall be within the plumb. The operating mechanism rods, pole and rotating insulators shall be checked for their proper function. The testing of the wiring to the kiosk should also be done to ensure its operation worthiness. The final commissioning of the isolator should be done only after connection to control panel is affected. However prior to that it should be ensured that the physical movement of the fixed and moving contacts and reach of them is within the prescribed limit.

### 3.12.0 ERECTION OF CONTROL AND RELAY PANELS.

- 3.12.1 The contractor shall procure the control and relay panel from site store or any other stores of the GETCO and transport the same to the erection site. The cases containing the panel shall be unpacked carefully and shall be nicely cleaned. In case any of external damage is observed, same shall be brought to the notice of Engineer In charge. The panel shall be unpacked in upside up position. After an external visual inspection, the panel door shall be opened and checked for the circuit connection, terminal connector, dehumidifier, power connection etc.
- 3.12.2 A front side of the panel shall be checked for any damage to the meter indicator, hooter, and semaphore indicators
- 3.12.3 Any lacuna in the equipments, circuits, fittings, dimensions etc. observed shall be brought to the notice of Engineer in charge who will try to impose remedial measures
- 3.12.4 The relay panel should also be checked for type, of schemes adopted for protection, internal connection, fascia indicator etc. Any difference observed should be brought to the notice of Engineer in charge who will take necessary action.
- 3.12.5 The panel shall be erected along cut outs provided in the slab concrete, in the order, it is decided, by Engineer in charge or which is approved by authorized drawing.
- 3.12.6 The size and number of cores of cables be brought from the equipment to control panel, control panel to relay panel and back to equipment shall be pre-determined by study.
- 3.12.8 After the erection of control panel and relay, panel, all the equipments, accessories indicators etc. along with the internal wiring and other accessories provided with the kiosk of the panels.

### 3.13.0 LAYING OF CONTROL CABLES AND TERMINATIONS THEREOF

- 3.13.1 Laying and termination of control Cable work shall generally Includes following:
- a) Control and power cable from individual equipments kiosk to the field kiosk.
  - b) Laying and termination of Control and L.T power cable from field -kiosk to control room equipment (i.e. LT switchgear, DC battery and control panel/relay panel.)
  - c) Laying and termination of Cable from the transformer kiosk to transformer panel and up to AC/DC supply source.
  - d) Laying & termination of Control cables from control panel to relay panel and vice a versa.

- e) Laying & Termination of cable from DC/AC source, battery room L/T switch gear room to control/relay panel.
- g) Laying & termination of cable from 11KV/400 V Distribution transformer to LT switch gear room.
- h) Laying & termination of cables from Station transformer to distribution transformer in the switchyard as well as in the residential. Quarter area.
- l) Laying & termination of LT power cable from station transformer to fire protection system kiosk (If required).

3.13.2 GETCO will provide the cable schedule for the various control schemes, protection schemes and metering scheme as well as communication, scheme etc.

3.133 'The contractor shall procure' the required size of control and power cable from the purchaser's site store to any other stores from where the same allotted and transport it to its site store.

3.13.4 The control cables shall be terminated using correct type of lugs and further prodded with ferules giving the identification number of various cores of the cable. Correct type of tools for termination shall be used to secure a rigid connection of the cable tray along with the cable trenches. Normally mild steel, racks and cable trays are provided in the cable trench. However, the purchaser may at its own discretion prefer to utilize fiber reinforced poly propylene (FRP) cable racks and trays. In such an event, the racks and trays will be supplied by the Purchaser to the contractor in a knocked down condition. The contractor shall assemble the rack and provide trays on them as per the approved drawing given by the purchaser. If FRP trays and racks are to be utilized, the contractor will have to take extra care while laying the cable through different layer and racks to avoid any displacement or distortion of the FRP racks. However, if the laying of pre-fabricated FRP racks and trays fall in the scope or FRP rack/tray supplier, the contractor shall co-ordinate and synchronize his cable laying activities with respective supplier of FRP rack/trays.

3.13.5 Utmost care shall be taken by the contractor to prevent damage to outer insulation and the armors of the cables. No joint to the cable shall be permitted. Unless situation so warrants and Engineer in charge permits the same.

3.13.6 After laying, all the power and control cable shall be properly identified giving the both a number and details of end connections.

#### **3.14.0 ERECTION OF BATTERY AND BATTERY CHARGER**

3.14.1 The contractor shall procure the material required for installation of batteries sets and battery charger from the site store or any other stores of the Purchaser and transport this material to the work site.

3.14.2 All the container/packing of the battery and battery charger shall be opened carefully to prevent any damage to the equipment. The equipment shall be cleaned to remove any dust or other un-warranted deposition. The battery rack shall be placed in such a fashion that rows of battery cell can be conveniently connected to each other. The contractor shall obtain the drawing of arrangement of battery racks and its connection to floats charger and boost charger with reference to the floor space. The battery cells shall be filled with requisite amount of electrolyte with proper specific gravity and up to the mark of maximum level indicated on the battery cells. All the cells shall be connected in the series to obtain total voltage of the 224V AC. However. Individual cell shall also be checked for their voltage across terminal before series connection.

3.14.3 The battery rack shall be provided with bottom insulating material to prevent any leakage of current to the earth. Similarly individual battery cell shall be provided with insulation supports to wooden rack to prevent any body leakage. The purchaser shall supply wooden racks and acid distilled water etc.

3.14.4 The connection. Of the battery shall be done through a cable. and same shall be terminated in the LV room (AC/DC) before commissioning of the battery and battery charger. The entire battery room shall be completely cleaned. Similarly racks and. battery cells shall also be cleaned for any deposits of electrolyte and other particles.

3.17.5 A connection of boost charger shall be secured from the AC supply provided in the LT switchgear room.

3.14.6 All the accessories supplied for measuring the specific gravity and testing etc. provided by the supplier shall be return to the Engineer in charge or shall be placed at proper place in the battery room under intimation to Engineer in charge.

3.14.7 Load test on the commissioned battery sets shall be taken as per the instruction of the Engineer in charge and performance of the battery cells float boost charger shall be observed for few hours. Test load then shall be removed and battery shall be ultimately connected to the LV room for its onwards utilization in control indication and protection circuits.

3.14.8 The following checks are recommended for battery

- i) Checking of completion of civil/ventilation requirement of battery room.
- ii) Checking of adequacy of charger output/requirement with respect to current required for battery charging as per the manual..
- iii) Checking for availability of safety devices, water and first aid box.
- iv) Checking the polarity of connections between battery and charger.
- v) Visual inspection test for level and leakages.
- vi) Checking of layout as per approved drawing.
- vii) Checking of IR value from positive to earth and negative to earth. .
- viii) Checking of voltage per cell and total voltage between positive negative and earth to positive/negative,
- ix) Checking of tightness of connectors on each cell. .
- x) Checking of capacity test and hourly measurement of specific gravity and voltage for each cell.
- xi) Charging discharging cycle as per standard practice, and as per instruction of Engineer-in-charge.

3.14.9 The following checks are recommended for battery charger.

- i) IR test
- ii) Checking for charging mode of batteries, constant current and constant voltage mode.
- iii) Load test on charges by running of DC drives (if there and by liquid resistance system).
- iv) Checking of thickness of earthing connections.
- viii) Check for functional operation of charger, auto manual change over from float to boost to float etc.
- ix) Check for AC ripple in boost and float mode after charging.
- x) Check and polarity of cables connected to battery

### 3.14 **GENERAL:**

- 3.14.1 The Contractor shall ensure that at the end of each sub-activity the Surplus materials are immediately removed from the work-site and the surplus excavated earth is spreader around to avoid loss or injury to the public/equipments.
- 3.14.2 The Contractor has to return all surplus materials after reconciliation of material account in good and useable condition. The contractor shall settle the final bill including signature on all relevant papers required for passing of final bill, excess/saving statement and time limit extension proposal. If any within three months from the date of charging/commissioning or taking over by the GETCO of the Sub Station.
- 3.14.3. Most of all equipments should be erected in presence of the concerned engineer from OEM/GETCO Engineer.
- 3.14.4. After complete erection and operation, contractor's supervisor should attend the site whenever called from GETCO for further testing commissioning of equipments/panels etc.

## **3.15 MAINTENANCE FREE TREATED EARTH PIT**

The bidder shall have to do the entire work of earth pits required for equipment earthing and for the pits at the corners of earth mat.

### **STANDARDS**

The product and the equipment covered by this specification shall, unless otherwise specified be in line with the requirement of any of the latest applicable standards and will apply in order of priority as listed below:-

- a) Indian Standards
- b) IEEE 80
- c) ANSI (American National Standards)
- d) BS (British Standards)

### **EARTH PITS**

All the Earth Pit shall be with special Ground electrodes supplied by Getco Approved Manufacturer. These special electrodes are provided with Ground enhancement material.

### **A. EARTHING PRODUCT COMPONENT SPECS**

- The Earthing System should be based on use of Copper Bonded Earth Rods / Cu coated Pipe electrode / Cu coated PIP electrode (for corrosion resistance) and Ground Enhancement Material (to reduce Soil Resistivity).
- It should be capable of providing any ohmic value as specified by the client, by inter-connection of ground rods to form a Grid.
- The system shall be totally maintenance free and require no periodic or scheduled maintenance for a period of at least 30 years.
- There shall be no requirement to add water or any other chemical any time after initial installation.
- The system shall provide constant low ohmic value for entire life cycle without any consideration for moisture or temperature conditions.
- The manufacturer shall be a company of international repute engaged in the field of Facility Electrical Protection work.

## **B. ELECTRODE:**

### **(1) COPPER BONDED EARTH RODS**

#### **For 66 KV Substations:**

The Earth Rods shall have a nominal (actual) dia of 24mm (Min.) and length of 3 M (Min.).It shall be capable of handling 25 KA 1-Sec Short time current.

#### **For 132KV ,220KV & 400 KV Substations:**

The Earth Rods shall have a nominal (actual) dia of 38mm (Min.) and length of 3 M (Min.). It shall be capable of handling 40 KA 1-Sec Short time current. The Rods shall have a steel core with molecular bonding of 250 micron of copper as per international standards.

- A nickel layer is applied to steel core (and subsequently copper) by an electrolytic process forming a metallurgical bond between the three.
- The copper used shall be type DHP alloy No. 122 CDA and rated at 99.95% copper. The thickness of copper layer shall be uniform 250 micron.
- The Rods should be manufactured by a company of high repute to ensure quality of Copper Bonding.
- Type test report (tested at NABL accredited laboratory) shall be submitted satisfying minimum STC of 25 KA-1Sec for 66 KV S/S and for above class, STC shall be 40 KA-1 Sec
- Test report (tested at NABL accredited laboratory) of cu-coating shall be submitted satisfying our requirement of 250 micron coating

### **(2) PIPE or PIP (Pipe-In-Pipe) ELECTRODE**

For 66 KV Substations:

The Pipe or Pipe-In-Pipe or Flat-In-Pipe electrode shall have a nominal (actual) outer dia of 50 mm & 2.5 mm thickness (Min.) and length of 3 M (Min.). It shall be capable of handling 25 KA 1-Sec Short time current and shall have a molecular bonding of 250 micron of copper as per international standards.

For 132KV,220KV & 400 KV Substations:

The Pipe or Pipe-In-Pipe or Flat-Pipe electrode shall have a nominal (actual) outer dia of 75.5 mm & 3 mm thickness (Min.) and length of 3 M (Min.). It shall be capable of handling 40 KA 1-Sec Short time current shall have a molecular bonding of 250 micron of copper as per international standards.

In case of P-I-P and Flat-In-Pipe, the portion between pipes shall be filled with the conductive material.

Type test report (tested at NABL accredited laboratory) shall be submitted satisfying minimum STC of 25 KA-1Sec for 66 KV S/S and for above class, STC shall be 40 KA-1 Sec.

Test report (tested at NABL accredited laboratory) of cu-coating shall be submitted satisfying our requirement of 250-micron coating.

## **C. GROUND ENHANCEMENT MATERIAL / BACK FILL / GROUNDING COMPOUND**

- Ground Enhancement Material/ Backfill / Grounding compound shall be permanent and maintenance free. (No re- charging with salts or any other chemicals) and shall maintain its earth resistance with time.

- Ground Enhancement Material/ Backfill / Grounding compound shall confirm IEEE 80-2000 Clause No.14.5 (d). Ground Enhancement Material/Backfill / Grounding compound in its set form shall have a resistivity of not more than 0.12 ohm-m.
- Ground Enhancement Material / Backfill / Grounding compound shall comply the requirements and all applicable tests as per part-7 of IEC62561. The same shall be tested at NABL accredited laboratory and report are to be verified.
  - 1) Resistivity test using soil box
  - 2) Leaching test
  - 3) Sulfer determination
  - 4) Corrosion test
- It must set up firmly and not dissolve or decompose or otherwise pollute the soil or the local water table.
- It shall be suitable for use in dry form or slurry form.
- The Ground Enhancement Material/ Backfill / Grounding compound shall **not depend on the continuous presence of water to** maintain its conductivity.
- The material shall be carbon based conductive concrete and shall not contain bentonite in any form. - Same shall be applicable for conductive material used for filling in case of P-I-P and Flat-In-Pipe type earth electrodes.

#### **D. CLAMP**

. Each Earth Rod/Pipe/PIP must be provided with a suitable Cu plated clamp OR exothermic welding of Cu plated plate to facilitate Inter-connection of rods and connection to Equipment Earth Bar using appropriate copper coated MS strip

#### **GUARANTEE**

- The product shall be guaranteed for trouble free operation for a period of 30 years from date of commission or arrival at site whichever ever is later. Any defect discovered during this period shall be rectified free of charge.
- The pits shall be drawn with the help of a boring machine, an auger or any other means as required by site conditions and nature of ground strata which shall be in the scope of supplier.

#### **VERIFICATIONS & TESTS TO BE CARRIED OUT AT SITE:**

Following verifications and tests shall be carried out by respective

E.E.(Construction)/TR while execution of work of maintenance free treated earth electrodes.

(1) Electrode:

1. Type test report shall be verified satisfying minimum requirement of STC of 25 KA-1 Sec for 66 KV S/S and for above class (i.e. 132 KV, 220KV, & 400 KV Substations), STC shall be 40 KA-1 Sec.

2. Test report of cu-coating shall be verified for 250-micron coating.

(II) Ground enhancement material/ Back fill/Grounding material:

(A) Sampling of bag shall be 1 bag per lot of 50 bags received at site.

As per part-7 of IEC 62561, resistivity test using soil box shall be carried out and value of the same shall be below 0.12 Ohm-m

(B)As per part-7 of IEC 62561, following test certificates shall be verified at site for

- 1)Leaching test
- 2)Sulfur determination
- 3)Corrosion test

Important Notes:

For Normal soil, drawing no.: GETCO/E/STD/P-021(1ot 2), R2 D1d.04.06.2015 shall be used for execution purpose and supersedes earlier released drawings dated 30.07.14 & 08.10.14.

For Rocky soil, drawing no.: GETCO/E/STD/P-021 (2 of 2), R2 Dtd.04.06.2015 for execution purpose and supersedes earlier released drawings dated 30.07.14 & 08.10.14.

In Earthing Philosophy, terms "Cl Pipe Electrode" and "Treated Electrode" shall be read as "Maintenance free Treated Earth pit" wherever indicated. It shall also be applicable for various equipment earthing drawings.

### **3.16. SPECIAL CONDITION FOR USE OF CEMENT IN WORK**

1. The rate in Schedule "B" is inclusive of Cement Cost. Contractor has to purchase fresh 43 grade cement confirming to as per IS-8112 and of approved brand by GETCO.
2. Contractor has to construct "Pucca Godown" at site of the work so that Cement bags can be properly preserved to avoid damage due to any kind of Water.
3. The contractor shall have to procure cement by purchasing from the open market according to line requirement and keep sufficient quantities to avoid delay in work. Same quantity of cement is to be utilized from his own stock. Account of cement utilized at each location duly certified by concerned GETCO's supervisor and engineer in charge of work. The account is required to be maintained and submitted with each RA bill. No payment shall be made toward cost of cement bags utilized in each running bills without submission of cement consumption details. No wastage is permitted as same is to be procured by the contractor at his own cost from the authorized dealer approved by the GETCO. No wastages towards cement is permitted.
4. Cement should give the required strength of cement concrete.
5. To bring sufficient and timely cement at site is full responsibility of contractor. Nothing extra will be paid on account of any reason to maintain progress of work and to complete the work in Schedule time.
6. Contractor has to submit material A/c for consumption of cement used with every bill. In case of not submitting the same, bill will not be passed. Contractor has to submit the copy of cement purchase Bill along with each RA Bill/ Final Bill.
7. No negative variation will be allowed for consumption in cement then prescribed as per Booklet of Technical Specification of GETCO/Mix Design and nothing will be paid extra for over consumption.
2. Contractor is fully responsible for safety of cement at site, nothing will be paid extra on account of safety.
3. If GETCO's authorized representative wants to check cement stock at site, contractor has to allow for the same at any time.
4. Contractor has to maintain day-to-day cement consumption/balance at site.
5. As far as possible, Contractor has to maintain supply of cement of only one brand & grade through out the work and on account of closer/shortage of approved brand, cement of other brand in accordance No.(01) will be allowed by Engineer-in-Charge.
6. Minimum cement Consumption considered for cement concrete:-
  - a. M-20 : 8.2 Bags per CMT
  - b. M-15 : 6.5 Bags per CMTContractor will be allowed to carry out work only after Physical Verification of cement brought at site.
7. The tor Steel bars required for RCC type foundation shall be procured by the contractor in advance to avoid delay in the work.
8. No wastage is permitted for reinforcement steel and as reinforcement steel is to be procured by the contractor at his own cost. NO over lapping of RCC is permitted in foundation work.
9. GETCO reserves right to test the quality of steel and cement procured by the contractor at any Govt. Recognized Laboratory and intended to be used for the tower foundation works. The test results shall be binding to the contractor closer /shortage of approved brand, cement of other brand in accordance of condition No.(01) will be allowed by Engineer-in-Charge.
10. Contractor will be allowed to carry out work only after physical verification of cement brought at site.
11. The Cement and Steel of companies/suppliers who are manufacturing for supplying are to be provided by contractor will be approved vendor of Getco..

### **3.17 11KV Common Standard Busbar Configuration with Integrated Adapter Cubicle** (Please refer the attached typical drawing No. GETCO/E/11S-STD/P-004A, Rev. R0 dtd.12.03.15)

The 11kV VCB Indoor panels shall be with Integrated Adapter cubicle, mounted on the top of the panel, meeting following specifications.

#### **1. Cubicle**

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Sign & Seal of Contractor

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- The cubicle shall be of min. 2 mm thick MS sheet
- The exterior as well as interior of cubicle shall be painted with two coats of stoved enamel paint of shade 631 of IS: 5 with zinc phosphate treatment, after application of single coat of anti-rusting paint after seven tank process. Powder coating is also acceptable. Total thickness of paint shall be 80 µm min.
- It shall be completely dust and vermin proof complying requirements of degree of protection of IP 5X. The material, size, thickness and profile / configuration of metal sheet & gaskets shall be as per the type test report.
- Overall dimensions of the cubicle shall be such that it accommodates all the components viz. busbar, risers, bus post insulator etc. maintaining required clearances (Min.90mm for Ph to Earth and 170mm Ph to Ph) considering bare conductor. Insulation to Bus bar shall be provided as an additional protection. It shall also maintain aesthetic look of the panel.
- The rear cover shall have wire mesh provided behind it, so that the person opening the cover shall not have access to live parts of the adapter cubicle. The nuts shall be welded with cubicle so that all the bolts of the rear cover shall in position, thereby effecting complete closing of the cover.
- The cubical shall be installed on the top of the busbar chamber of panel.
- The pressure relief flap shall be mounted on the top of the cubicle to maintain internal arc test requirements of busbar chamber.

## 2. Busbars and Risers

- A set of 3-phase busbars and risers of electrolytic high-grade copper rectangular bars shall be provided in the adapter cubicle.
- The busbars of original panels shall be extended vertically upward by using risers to have the common standard horizontal busbar.
- **The original busbar shall also be retained in its position so that the same make panel can be connected without need of adapter cubicle.**
- The busbar shall be at the height of 2074mm from the bottom of the panel and the first phase busbar shall be at the depth of 972mm from front of panel (excluding front door width). The B- Phase shall be considered as the first phase the sequence shall be B -Y -R from the front of the panel. The center to center distance between phases shall be 200mm. The clearance between phase and earth shall be 90mm.
- The busbars and risers size shall be minimum 2 (Runs) x 75 (Width) x 10mm (Thickness) = 1500 mm<sup>2</sup>. The length of busbar shall be as per requirement depending upon the panels to be connected.
- The busbars and risers shall be suitably insulated by heat shrinkable sleeves having minimum dielectric strength 22kV/mm whereas busbar joints shall be covered with heat shrinkable shrouds having minimum dielectric strength 22kV/mm. Minimum thickness of sleeve shall be 1.2 mm. HT insulating tape shall not be used.

## 3. Earthing

- Earthing bus of electrolytic high-grade copper having min. cross section of 240 Sq. mm shall be provided and connected to panel earthing bus.

## 4. Bus Support Insulators

- Required numbers of bus support insulators shall be provided in the adapter cubicle.

## 5. Drawings to be submitted by the Bidder

- GA of panel with adapter cubicle (Front view, Internal view, Side view, Top view showing busbars, risers and support insulators arrangement, all the clearances, etc.). Please refer the attached typical drawing. \_ Gasket details - Material, Size, Profile .

### 3.17 Brief Technical Specifications for Loose 11kV Adapter Cubicle

#### A. Work Description

To design, manufacture, supply and supervise the installation of 11kV Adapter Cubicle to connect 11kV Busbars of different make 11kV Indoor VCB panels at various substations.

## **B. Scope of the Work**

Design, engineering, manufacturing, supply, dispatch to site and supervision of installation of 11kV Adapter Cubicle to connect 11kV Busbars of any of the following make 11kV VCB Indoor panels of different busbar configuration, as the case may be, at various substations of GETCO.

1. ABB Ltd.
2. Andrew Yule Ltd.
3. BHEL
4. Biecco Lawrie Ltd
5. Crompton Greaves Ltd.
6. Jyoti Ltd.
7. L&T Ltd.
8. Megawin Switchgear Ltd.
9. GEC / Alstom / Areva / Schneider Electric
10. Siemens Ltd.
11. Stelmec Ltd.
12. S&S
13. MEI

The type and designation of the panels to be connected are as indicated in the Schedule - A of the tender.

## **C. Inputs from GETCO**

1. System data

11 kV adapter cubicle shall comply with the following system conditions:

- (a) Nominal system voltage - 11kV
- (b) Highest system voltage - 12kV
- (c) System earthing - Effectively earthed
- (d) Number of phases - 3
- (e) Rated Frequency - 50 Hz
- (f) Basic Insulation level:-
  - (i) 1.2 x 50 micro second impulse withstand voltage - 75 kVp
  - (ii) One minute power frequency withstand voltage - 28 kV rms

2. GA Drawings of existing 11kV Indoor VCB Panels.

3. Typical GA Drawing showing the required height and depth of the busbars. (Please refer the attached drawing No. GETCO/E/11S-STD/P-004A, Rev. R0 dtd.12.03.15)

## **D. Site Visit**

The bidders shall visit the site for assessment of actual work involved and to collect any specific data / information.

## **E. Technical requirement:-**

### **1. Cubicle**

- The cubicle shall be of min. 2 mm thick MS sheet
- The exterior as well as interior of cubicle shall be painted with two coats of stoved enamel paint of shade 631 of IS: 5 with zinc phosphate treatment, after application of single coat of anti-rusting paint after seven tank process. Powder coating is also acceptable. Total thickness of paint shall be 80 µm min.
- It shall be completely dust and vermin proof complying requirements of degree of protection of IP 5X. The material, size, thickness and profile / configuration of metal sheet & gaskets shall be as per the type test report.
- Overall dimensions of the cubicle shall be such that it accommodates all the components viz. busbar, risers, bus post insulator etc. maintaining required clearances (Min.90mm for Ph to Earth and 170mm Ph to Ph) considering bare conductor. Insulation to Bus bar shall be provided as an additional protection. It shall also maintain aesthetic look with the existing panels.

- The rear cover shall have wire mesh provided behind it, so that the person opening the cover shall not have access to live parts of the adapter cubicle. The nuts shall be welded with cubicle so that all the bolts of the rear cover shall in position, thereby effecting complete closing of the cover.
- The cubical shall be installed on the top of the busbar chamber of existing panels.
- The busbars of one panel are at different height from the bottom of the panel and at different depth from front of panel (excluding front door width) than that of the other panel. The height and depth of the interconnecting horizontal busbar shall be at 2074mm height from the bottom of the panel and at the depth of 972mm from front of panel (excluding front door width). Accordingly the cubicles shall be designed.
- The existing busbar chamber top cover with pressure relief flap shall be dismantled and mounted on the top of the cubicle to maintain internal arc test requirements.

## 2. Busbars and Risers

- A set of 3-phase busbars and risers of electrolytic high-grade copper rectangular bars shall be provided in the adapter cubicle.
- The existing busbars shall be extended vertically upward by using risers to have the interconnecting horizontal busbars at a height of 2074mm. The first phase busbar shall be at the depth of 972mm from front of panel (excluding front door width). The B- Phase shall be considered as the first phase the sequence shall be B -Y - R from the front of the panel. The centre to centre distance between phases shall be 200mm. The clearance between phase and earth shall be 90mm.
- **The original busbar shall be retained in its position so that the same make panel can be connected without need of adapter cubicle.**
- The busbars and risers size shall be minimum 2 (Runs) x 75 (Width) x 10mm (Thickness) = 1500 mm<sup>2</sup>. The length of busbar shall be as per requirement depending upon the panels to be connected.
- The busbars shall be suitably insulated by heat shrinkable sleeves having minimum dielectric strength 22kV/mm whereas busbar joints shall be covered with heat shrinkable shrouds having minimum dielectric strength 22kV/mm. Minimum thickness of sleeve shall be 1.2 mm. HT insulating tape shall not be used.

## 3. Earthing

Earthing bus of electrolytic high-grade copper having min. cross section of 240 Sq.mm shall be provided and connected to existing panel earthing bus.

## 4. Bus Support Insulators

Required numbers of bus support insulators shall be provided in the adapter cubicle.

## 5. Factory Acceptance Test

The following Factory Acceptance Tests shall be carried out during inspection

- Visual checks, physical verification and clearances measurements
- Power frequency voltage withstand test.

## 6. Supervision of Installation at Site.

- Supervision of installation of adapter cubicles on the busbar chambers of existing 11kV Indoor VCB panels to interconnect 11kV Busbar at GETCO substations is in the Bidder's scope of work. The scope includes all the materials and equipments whether specifically mentioned herein or not but required to complete the work in all respects.
- Successful Bidder shall be intimated well in advance to carryout supervision of installation at site. Depending upon the availability of shutdown, GETCO will confirm the date and accordingly the supervision of installation work shall be completed in the given shutdown period of 8 hours max.

## 7. Drawings to be submitted by the Bidder

- GA of adapter cubicle (Front view, Internal view, Side view, Top view showing busbars and support insulators arrangement, all the clearances, etc.)

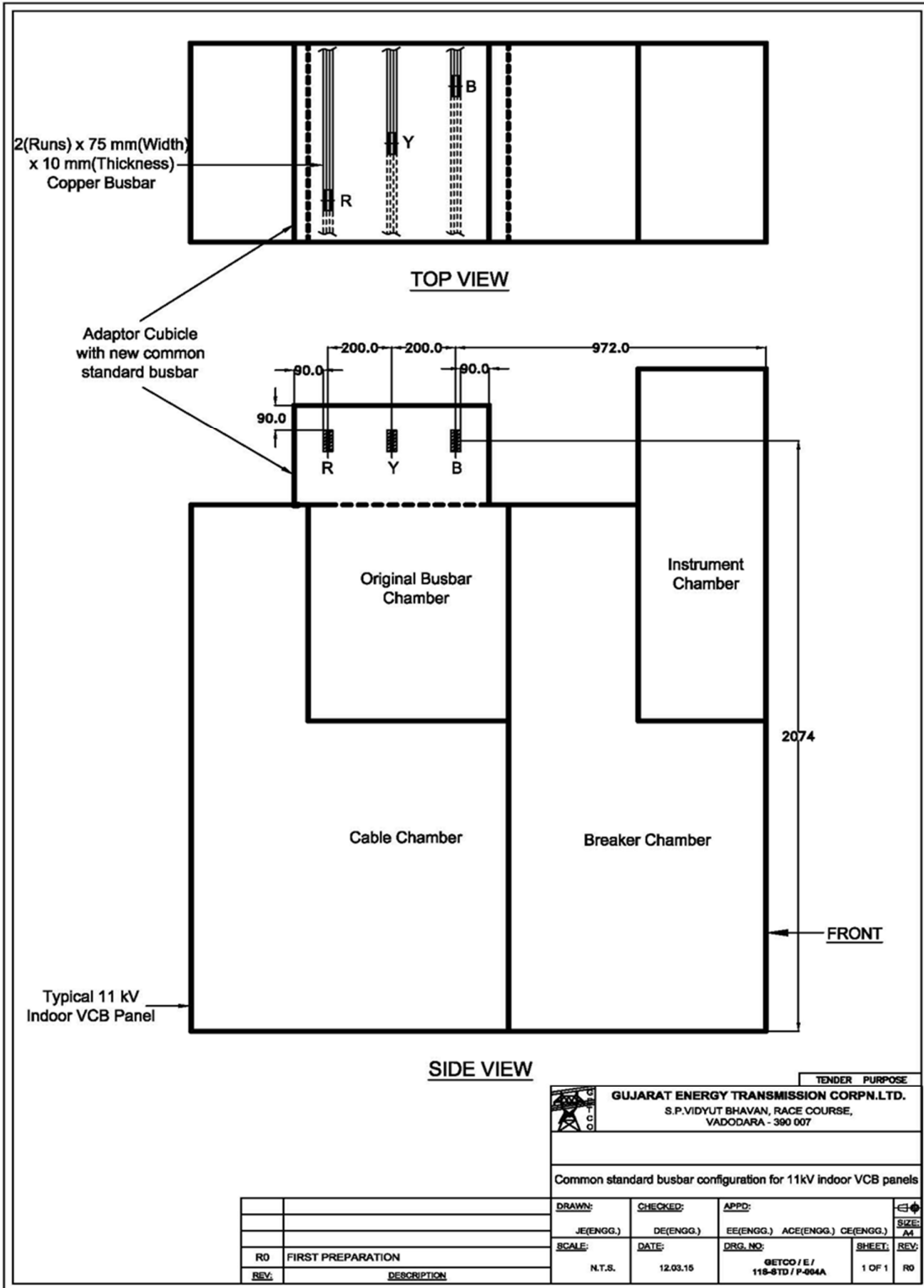
### F. Bill of Quantity.

The Nos. of adapter cubicle shall as per the 'Schedule-A' of the tender.

It shall cover following materials (Quantity shall be as per design requirement):

- a) 11 kV Busbar and risers

- b) Earthing bus
- c) Bus support insulators
- d) Any other materials and equipments whether specifically mentioned herein or not but required to complete the work in all respects.



## SCHEDULE –A

### MATERIALS

Following material will be supplied by GETCO “free of cost” for “above Mention work”

- 1) G I Structures, accessories, attachments bolts-nuts, Angle, channel etc.
- 2) Conductor, conductor accessories, earth wire, earth wire accessories.
- 3) Insulators, insulator hardware's.
- 4) 220 / 132 / 66 KV / 11KV/LT equipment's with accessories and control and relay panels
- 5) Various sizes of armored control cables for control wiring of equipment's.
- 6) Earthing materials like GI Strips. Galvanized wire etc.
- 7) 11KV Power Cable.
- 8) 11KV Indoor Cable Termination Kits if available with GETCO.
- 9) MS Girder, Channel, Angle sections for fabrication of various supports as included in respective items.
- 10) If available than 11KV single phasing switches, 11KV GO switches, 11KV LA, 11KV DO fuse set.

Following materials / equipment's will be procured / arranged by the contractor activities for 6KV above mention S/S.

- 1) Tools tackles required for Sub-Station erection activities and stringing.
- 2) Earthing materials filter machine, hydraulic crane and hydraulic jointing machine/welding machines. GI pipe, coal, salt etc.
- 3) Wherever necessary cement, sand, metal, water for concreting works.
- 4) All required material for Colony & Yard Lighting, Control-Room Industrial Electrification and Staff-Quarter Residential Electrification work except GI angle required for fabrication for fixing of ICTPN.

## Penalty Clause: FOR SAFETY

### Penalty:

1. In case if any safety related fatal Elect. / Mech. accident occurred to any employee of agency or outsider due to negligence or non-compliance of GETCO safety norms then in addition to the compensation and liability as per statutory requirement, contractor / agency shall be penalized as under:

Sr. No	Amount of Contract in Rs.	Penalty amount
1	Up to →1 Lac	Rs.5000/-
2	Above1 Lac to → 10 Lacs	Rs.25000/-
3	10 to --→ 100 Lacs	Rs.100,000/-
4	> 100 Lacs	1.0 %

**NOTE:GST is Applicable of All Above Mention Amount.**

### 2. Reporting;

- 2.1 The contractor shall inform concerned Ex. Engineer Const/TR in writing within 24 hours of fatal/Non-fatal accident occurred to human being.
- 2.2 The GETCO investigating officer findings in to accident shall be final and binding to the contractor /Agency.

### 3. Safety Requirement:

- 3.1 Kick off Meeting exclusively for safety shall be done in each contract in presence of contractor's site in charge and supervisor. Safety document shall be handed over and vital safety norms and key points of safety related to project shall be explained and recorded for commitment by erection contractor.  
Such records are mandatory for clearing first erection bill.
- 3.2 During site visit by GETCO official of Executive Engineer and above rank, the following checks during execution of work shall be covered.
  - 3.21 Safety equipments available and utilize.
    - (a) Helmet.
    - (b) Safety belt.
    - (c) Safety shoes.
    - (d) Live line Voltage detector
  - 3.2.2 Safety procedure adopted.
    - (a) Permit to work
    - (b) Earthing at the place of work.
    - (c) Adequate supervision.

3.23 T & P physical Check. (Healthiness and Quality)

- (a) P.P. rope.
- (b) Wire rope and sling.
- (c) Earthing rod

3.3 If above-mentioned safety requirements found violated in any of the above three conditions shall attract penalty of Rs.1000/- Plus GST per occasion. (Max.Rs.3000/-Plus GST-for violation of three conditions)

3.4 During subsequent visit, if violation is found, then double penalty Plus GST shall be deducted from the bill of the Contractor/Agency.

**PART – II**  
**BIDDER'S DETAILS OF PERSONNEL**

1	Firm Name	
2	Firm Address	
3	Firm Type (Proprietary/ Partnership/Corporate )	
4	Contact Person Name and Designation	
5	Qualification	
6	Professional Experience	
7	PAN No	
8	GST	
9	Contract Details	
	Mobile No	
	Land Line No	
	FAX No	
	E-Mail ID	

**Note: All the correspondence, queries etc., will be asked on above E-Mail only. Bidder is responsible to check and operation of e-mail ID.**

**ANNEXUTURE-1**

Sub. : As above Mention

In connection with above subject, I / we confirm the following:

- a) I/ we, the undersigned, have read and understand the Tender Specification for Work Complete with the entire tender Terms and Conditions.
- b) The price in the bid is firm prices in line with Tender Specifications and shall stand valid till completion of the Contract, if awarded.
- c) I/We declare that our bid is strictly in line with Tender Specifications and there is no deviation. Further, I / we also agree that additional conditions / deviations, if any found in bid, the offer shall be out rightly rejected without assigning any reason thereof.

**Company / Agency**

**NAME:** \_\_\_\_\_ **STATUS:** \_\_\_\_\_ **Name of tendering Company**

ANNEXUTURE-2

**CONFIRMATION OF DETAILS OF BIDDER**

Bidders are required to furnish following information specifying YES / NO

- 1) Whether the Bid is on percentage basis as called for. Yes / No
- 2) Whether rebate furnished is in percentage basis as called for. Yes / No
- 3) Whether the Bid is submitted by RPAD. Yes / No
- 4) Whether all pages of Bid Specifications are sealed and signed by the Bidder.
- 5)
  - a) Whether the Bidder is registered with for Getco
  - b) In case of "Yes", please furnish following details:
    - i) Registration Letter No. & date.
    - ii) Class of Registration
    - lii) Validity
  - c) Whether Bidder is having PF Code No. Yes / No
- 6)
  - a) Whether EMD/Tender fees paid. ( DD) Yes/no
- 7) Whether following documents as specified are submitted.
  - a) Human Resources detail. Yes / No
  - b) Availability of tools, equipment's etc. Yes / No
  - c) Details of orders executed / on hand Yes / No
  - d) Financial capability. Yes / No
  - e) Experience as specified. Yes / No
  - f) Company's Articles Of Association Yes / No
  - g) Details Of Partners / Directors Yes / No
  - h) B.R./P.A. Authorizing Person Yes / No
  - i) Power of Attorney of Consortium Members Yes / No.
  - J) Pan card Yes/No
  - K) GST Registration Yes/No
  - M) Electrical Contractor registration Yes/No
  - N) Solvency certificate Yes /No
- 8) Price: [FIRM ONLY] Yes/No
- 9) Security terms agreed Yes/no
- 10) Penalty terms agreed Yes/No
- 11) Terms agreed: Yes/no
- 12) Validity of the offer for 180 days from the date of opening of the technical bid: agreed Yes/No
- 13) payment terms agreed:

**Company / Agency**

**NAME:** \_\_\_\_\_ **STATUS:** \_\_\_\_\_ **Name of tendering Company**

**ANNEXTURE-3**

**1) DETAILS OF WORK ORDERS EXECUTED BY THE BIDDER OF VARIOUS SIMILAR CONTRACTS**

Sr. No.	Order No./Date	Description of work	Order Qty.	Order Amount	Name of Order placing authority
1	2	3	4	5	6

Completion date as per order	Date of commencement of work	Actual completion of work
7	8	9

**2) SATISFACTORY WORK COMPLETION CERTIFICATE**

Sr. No.	Description of work	Certificate No	Date	Order Amount	Certificate issuing authority

**3) WORKS TENDERED / IN HAND**

Details of other Works, tendered for & in hand, as on the date of the Submission of this tender [Tenderers shall submit the information in the Format detailed here under]

Sr No	Name Of Work and Location	Order Quantity	Order Value	Anticipate date of Completion	Remarks

**Signature of Authorized Representative  
Company / Agency**

**NAME:** \_\_\_\_\_ **STATUS:** \_\_\_\_\_ **Name of tendering Company**

**ANNEXTURE-4**

**FINANCIAL CAPABILITY**

Sr. No.	Details	Amount Rs. In lacks	Remarks
1.	Solvency		A scheduled Banker's Certificate of present solvency be attached.
2.	Price of the biggest job Carried out.		
3	Average Turnover of Last three Year		

**Signature of Authorized Representative  
Company / Agency**

**NAME:** \_\_\_\_\_ **STATUS:** \_\_\_\_\_ **Name of tendering Company**

**ANNEXUTURE-5**

**1) ERECTION CAPACITY**

Based on available men power, tools-tackles, machinery and financial resources, our erection capacity is as under:

Sr. No.	Name of activity	Unit	Capacity per Annum per gang	No. of Persons per gang.
1.				
2.				
3.				
4.				

**2) TENDERER'S DETAILS OF PERSONNEL**

The List of Technical Personnel intended to be placed at the Work by the Contractor.  
[Tenderers shall submit in the Format detailed here under]

Sr. No.	Description & Details of position	Name	Qualification	Professional Experience & details of works carried out	Remarks
1	2	3	4	5	6

Contractor's Representative legible signature: \_\_\_\_\_  
Name of the person: \_\_\_\_\_  
Seal of the company \_\_\_\_\_  
Date & place: \_\_\_\_\_

**Declaration**

This is to declare that none of the Proprietors/ Partners/ Directors are having any relatives employed or working with Gujarat Energy Transmission corporation Ltd at any of its offices or its parent Department i.e. GUVNL.

Signature of Authorized Representative  
Company / Agency

NAME: \_\_\_\_\_ STATUS: \_\_\_\_\_ Name of tendering Company

**ANNEXURE – 14**

**(UNDERTAKING IN REGARD TO STOP DEAL/BANNED FOR BUSINESS DEALING /BLACK LIST THEREOF)**

**SUB: Undertaking in regard to stop deal/Banned for Business dealing /Black list thereof)**

**Ref: Tender no:**

All bidders will have to furnish the following undertaking duly filled in, Signed and stamped for each quoted item of the tender along with the technical bid.

I/We \_\_\_\_\_

Authorized signatory of M/s \_\_\_\_\_ here by certified

That M/S \_\_\_\_\_ and their proprietor/any partner /any director of the firm is not stop deal and/or banned for business dealing and/or black listed by GUVNL and/or their any subsidiary company viz. GSECL/GETCO/DGVCL/MGVCL/UGVCL/PGVCL.

**Seal of Firm**

**Signature of renderer**

### QUALIFICATION REQUIREMENT.

Contractor must fill up below details & should place at the top of the Technical Bid.

Sr No:	List of Documents	
1	Registration(No, Class)	
2	P.F. No.	
3	Partnership deed/Proprietor/AOA/MOA (Notarized copy)	
4	Power of Attorney (Notarized copy)	
5	Bl. Sheet / P&L A/C, last three years.	
6	Latest Solvency certificate.	
7	GST No.	
8	PAN NO	
9	Experience certificate As per QR	
10	Electrical contractor Certificate valid up to	
11	Man and tolls and tackle detail	

Signature of Tenderer

Date :

Place

Company's Round Seal

(ON STAMP PAPER OF RS 300/-)

## FORM OF BANKER'S UNDERTAKING

**(Combined Performance Guarantee (PBG) towards Execution/supply Period and Guarantee/Warranty Period as per commercial terms and conditions of Tender**

We \_\_\_\_\_ (Name of the Bank and Address of the Branch Giving the Bank Guarantee) having our registered office at \_\_\_\_\_ Address of Bank registered office) hereby Give this Bank Guarantee NO \_\_\_\_\_ date \_\_\_\_\_ and hereby agree Unequivocally and Unconditionally to pay immediately on demand in writing from the Beneficiary Company \_\_\_\_\_ (Name of Gujarat Urja Vikas Nigam Ltd/ subsidiary Company) or any officer authorized by it in this behalf any amount up to not exceeding Rs. \_\_\_\_\_ (Amount of combined Performant Guarantees towards Execution / supply Period and Guarantee/ Warranty period (Rupees \_\_\_\_\_ (in words) to the said \_\_\_\_\_ (GUVNL/ subsidiary Company) on behalf of M/s \_\_\_\_\_ who have entered intoed contract for the supply/ works specified below.

L.O.A. No. \_\_\_\_\_ dated \_\_\_\_\_

This agreement shall be valid and binding on this Bank Up to and inclusive of \_\_\_\_\_ (Date of validity of the Bank Guarantee) and shall not be terminable by notice or by change in the constitution of the Bank of the firm of Contractors / Suppliers or by any other reasons whatsoever and our liability hereunder shall not be impaired or discharged by any extension of time or variations or alterations made given conceded or agreed with or without our knowledge or consent, by or between parties to the said within written contract .

Notwithstanding anything contrary contained in any law for the time being in force or banking practice this Guaranteed shall not be assignable transferable by the Beneficiary (i.e GUVNL or Subsidiaries). Notice or invocation by any person such as assignee transferee or agent of beneficiary shall not be entertained by the Bank. Any invocation of the Guarantee can be made only by the beneficiary directly.

NOTWITHSTANDING anything contained herein before. Our liability under this guarantee is restricted to Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only) out Guarantee shall remain in force Until \_\_\_\_\_ (Date of validity of the Bank

Guarantee). Unless demands or claims under this Bank Guarantee are made to Us in wrong on or before \_\_\_\_\_ (Date of validity of the Bank Guarantee), all rights or the Beneficiary Under this Bank Guarantee shall be forfeited and we shall be released and discharged from all liabilities there Under.

**Place**

**Date**

Please Mention here Complete Postal Address of the Bank with Branch Code Telephone and Fax Nos.	Signature of the Bank's Authorized Signatory with Official Round Seal
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## SAFETY CUM INDEMNITY BOND

(On Non-judicial Stamp paper of value not less than Rs. 300.00)

Know All Men By These Presents that we, \_\_\_\_\_ by this SAFETY CUM INDEMNITY BOND Executed on this \_\_\_\_\_ Day of \_\_\_\_\_ 2026. I/We Having Registered Office (herein after called "THE CONTRACTOR" which expression shall mean and includes my /our heirs, executors, administrators and legal representatives, successors and permitted assigns) do hereby binds myself/ourselves and also our company/firms after having the power to bind by this promise and undertaking in favor of the Gujarat Energy Transmission Corporation Limited (GETCO), HIMATNAGAR a State Transmission Utility under The Electricity Act, 2003 having its registered office at Sardar Patel Vidyut Bhavan, Race course, HIMATNAGAR.( hereinafter called as GETCO, which expression shall mean and include its legal representative, administrators assigns) has agreed under the terms and conditions of the contract no. \_\_\_\_\_ dated \_\_\_\_\_ made between \_\_\_\_\_ and \_\_\_\_\_ for the contract of the \_\_\_\_\_ value of Rs. \_\_\_\_\_ interalia on production of Safety Cum Indemnity Bond.

We do hereby undertake and agree to Indemnify and keep Indemnified GETCO from time to time to the extent of Rs. Rupees \_\_\_\_\_ only against any losses or damages, costs, charges and expenses caused to or suffered by reason of the CONTRACTOR while Project, R&M, O&M work including work carried out by outsourcing agency, failing to take proper care or not complying the guidelines given hereunder as per Annexure-A and instructions which may be given from time to time during the continuance of the contract and we further undertake to unconditionally pay the amount claimed by the GETCO on demand and without demur to the extent aforesaid.

Whereas the CONTRACTOR has/have been awarded to execute the job/works under order no. \_\_\_\_\_, dated \_\_\_\_\_ for \_\_\_\_\_ issued by the GETCO after having observing necessary formalities, the details of which is described in the order no. \_\_\_\_\_ dated \_\_\_\_\_ and whereas the said job/works will be /likely to be done in places covered under Employees' State Insurance Act, 1948 (ESI) and /or the Workmen Compensation Act, 1923 and /or other laws relating to the Labour Management and Welfare Act. (Respective Amendments)

And whereas according to the condition of the Contract the CONTRACTOR is under obligation to execute this Safety cum Indemnity Bond before the commencement of actual execution of work

Now the indenture witnesses that I/We the CONTRACTOR do hereby undertake to follow the guidelines as per Annexure-A prepared by the GETCO.

Further we the CONTRACTOR agree that the GETCO shall be sole judge of and as to whether there has been any breach of the guidelines as per Annexure-A of this bond and as to the extent of the loss, damages, costs, charges and expenses caused to or suffered by the GETCO.

We the CONTRACTOR further agree that our liability under this bond shall not be discharged because of the change in the constitution of the GETCO or for the extension of the time limit or for any other reason.

We the CONTRACTOR further agrees to the given terms and conditions:

- a. That the CONTRACTOR undertakes /undertake to indemnify and keep harmless the GETCO from all claims, actions, proceedings and risk, damage danger to any person whether belonging or not belonging to the CONTRACTOR.
- b. That the CONTRACTOR shall keep harmless the GETCO from all claims, compensation, damages any proceedings in respect of any of its employee / workmen under the Workmen Compensation Act or any other laws for the time being in force.
  - c. That, if during the course of execution of work as stated in the contract order mentioned hereinabove issued by the OBLIGEE, it is found that the CONTRACTOR has not complied with guidelines as per Annexure-A or terms and conditions / formalities within the meaning of Employees' State Insurance Act, 1948 (ESI) or Workmen Compensation Act 1923 or any other laws relating to the Labour Welfare for the time being in force, and also has not observed the safety norms in accordance with the law prevailing at the place of work/job to the satisfaction of the GETCO, the GETCO shall have the right to stop the execution of work/job and the period of such stoppage shall not be taken into account for the calculation of the total period of completion of work for which the CONTRACTOR is responsible to complete the work/job and it will be deemed that discontinuance was due to default of the CONTRACTOR .
- d. That, if any time, due to exigency, GETCO as the Principle Employer, becomes liable to pay any such compensation mentioned hereinabove, whether on

failure of the CONTRACTOR or for any other reason, the GETCO shall have the right to recover the said amount from any amount receivable by GETCO or any bank guarantee deposited or anything payable whether in connection with this contract or other contract by the CONTRACTOR to the OBLIGEE.

e. That the CONTRACTOR is/are aware and accept that for the persistent or repeated violation of any guidelines as per Annexure-A and terms and conditions mentioned in this Safety cum Indemnity Bond, GETCO shall have right to terminate the contract of work issued to the CONTRACTOR .

- f. In case if any safety related fatal Electrical / Mechanical accident occurred to any employee of agency or outsider due to negligence or non-compliance of GETCO safety norms then in addition to the compensation and liability as per statutory requirement, contractor / agency is hereby agreed to pay the penalty amount as given below:

Sr. No	Amount of Contract in Rs.	Penalty amount
1	Up to -1 Lac	Rs.5000/-
2	Above1 Lac to - 10 Lacs	Rs.40000/-
3	10 to --- 100 Lacs	Rs.100,000/-
4	> 100 Lacs	1.0 % of contract value

- g. I/We the CONTRACTOR hereby confirm that in case of any dispute/difference for settlement of claims under this Safety Cum Indemnity bond the courts in Gujarat State wherever job/work is performed or as per GETCO norms shall have the jurisdiction to decide the rights & liabilities of the parties while adjudicating the matter of claims under this Safety Cum Indemnity Bond.
- h. This Safety cum Indemnity Bond shall continue and hold good until it is released by the GETCO in Writing on the Contractor's application after the Contractor has discharged all his obligations under the order mentioned hereinabove and submitted a "NO DEMAND CERTIFICATE" from the GETCO under the said order. The Safety cum Indemnity Bond shall be valid for a CONTRACT PERIOD and renewable thereof (Claim Period).
- i. This Safety cum Indemnity Bond and the guidelines as per Annexure-A herein contained are in addition to And not by way of limitation or substitution for any other guarantee, indemnities Hereto before given to the GETCO by the CONTRACTOR and this indemnity does not Revoke or limit such indemnities or guarantees. IN WITNESS WHEREOF the Parties hereto have executed this indenture the day the year First hereinabove written.

-----  
(Signature with seal of The CONTRACTOR)

In the presence of:

- 1.
- 2.

**ANNEXURE-A**  
**OUR ENDEVOUR - Safety a habit**

To create environment where Business Confidence is built through Best Business Practices and is fostered in an atmosphere of trust and respect between providers of goods and services and their users for the ultimate benefit of society as the nation, safety guidelines are agreed upon by the agency as under.

Safety is our prime concern and zero accident is our goal. In order to prevent the accident, while execution of work in indoor and outdoor systems of GETCO the following guideline and preventive measures are identified.

<b>Indoor safety precaution</b>	<b>Outdoor safety precaution</b>
The method of work required T&P and manpower should be discussed between GETCO supervisor, contractor's supervisor and gang leaders.	The method of work required T&P and manpower should be discussed between GETCO supervisor, contractor's supervisor and gang leaders.
Prior to execution of work a joint survey must be conducted by GETCO supervisor, and contractor's supervisor for risk Assessment.	Prior to execution of work a joint survey must be conducted by GETCO supervisor, and contractor's supervisor and DISCOM line man in order to identify the following.
<ul style="list-style-type: none"> <li>• Clearly identify the work location to distinguish between the equipment that is dead and other equipment / part that may be live.</li> <li>• Disconnect the equipment from supply.</li> <li>• Protect against other live parts.</li> <li>• Take special precautions when close to the bare conductors/bus bar</li> </ul>	<ul style="list-style-type: none"> <li>a. HT/LT line or tap line crossing under each span of line of the work. that</li> <li>b. Isolation point of each line crossing.</li> <li>c. Each line crossing &amp; isolation point under each span must be discussed and noted in maintenance register with sketch</li> </ul>
<p>Following safety guidelines are mandatory for all contractors operating in GETCO premises for Electrical, non-electrical &amp; civil works.</p> <ol style="list-style-type: none"> <li>1) The contractors must provide advance planning of work to concerned in-charge of substation in writing.</li> <li>2. Before starting any work whether switch yard, "permit to allow to work" must be taken from control room in-charge.</li> <li>3. Utilizing Electrical / non-electrical. equipment's, safety rules must be Implemented.</li> <li>4. If the work is to be carried out on Sunday or public holiday, the necessary permission must be taken in advance, requesting in writing.</li> <li>5. Unwanted person including children of labours will not be allowed at working site/in the switchyard and in the prohibited area.</li> <li>6. Any electrical work or electrical connections to equipment for any other work must be carried out by certified electrician/wiremen with adequate size of wire through MCB as per I.E. Rule. <ul style="list-style-type: none"> <li>- Live penal area / bus bar must be isolated and sealed / bifurcated with red colour tape for visible warning.</li> <li>- Display Board must hang on LCP panel.</li> <li>- Transformer must be switched off whenever and wherever contractor and line workers are not satisfied with isolation, earthing or any equipment performance of GETCO, it will be pointed out and work shall begin only after resolution. Contractor shall not take up job</li> </ul> </li> </ol>	<p>Contractor's supervisor and GETCO Supervisor must ensure all isolations physically with adequate earthing Technically prior to give clearance to gang leader for taking up job.</p> <p>While execution of stringing work the identified line crossing must be isolated / de-energized and written clearance should be obtained from concerned DISCOM supervisor.</p> <p>The isolation of Tap line must be physically seen and verified by Contractor and GETCO supervisor.</p> <p>At D.O. fuse junction contractor's person should be posted to ensure that no person restore D.O. Supply while work is under execution.</p> <p>Contractor's supervisor must ensure that concern officer take LCP for EHV line and power line crossing.</p>

<p>in absence of GETCO authorized person. All wire temporary connection &amp; material whenever erection activity has any connection and disconnection work of bus bar, string bus.</p>	
<p>All workers / labour of contractor &amp; supervisors must use personal protective equipment (PPE) during the work like gloves, safety belt, Safety shoes, Helmet, earthing rods, etc, duly approved by GETCO.</p>	<p>All workers / labour of contractor &amp; supervisors must use personal protective equipment (PPE) during the work like, gloves, safety belt, Safety shoes, Helmet, earthing rods, Live line detector etc, duly. Approved by GETCO.</p>
<p>The local earthing must be done at the place of work before execution of any work.</p>	<p>The local earthing must be done at the place of work before execution of any work.</p>
<p>11 kV breaker in panel must be switched off and racked out only after ensuring no voltage in breaker and without door opening.</p>	<p>Circuit breaker opening is not an isolation and isolator on either side must be opened. No work during rains and cloudy weather Condition.</p>
	<p>Transmission line activities.  1) Used of Voltage detector to ensure Outage.  2) Earthing at three points, local, left &amp;right side of bus bar / string bus.  3) Match line colour code with color of wrist band.</p>
	<p>Local earthing of electrical equipment's like filter M/c, welding machine, testing kits etc. is must. Crane shall only be used for material handling and erection. Working platform shall only be used for work in switchyard.</p>

## **CONTRACT AGREEMENT (to be submit after Awarding of Contract)**

(Non judicial stamp paper of Rs. 300/-)

This agreement is made at Vadodara, the \_\_\_\_\_ day of \_\_\_\_\_ in the Christian year Two Thousand Five between \_\_\_\_\_ (herein after referred to as "THE CONTRACTOR" which expression shall unless excluded by or repugnant to context include its successors or permitted assigns) of the one part and the Gujarat Energy Transmission Corporation Limited, having their Corporate Office at \_\_\_\_\_, (hereinafter called "Corporation" which expression shall unless excluded by or repugnant to the context include its successors or assigns) of the other part.

"WHEREAS" the aforesaid Corporation has accepted the tender of the aforesaid contractors for

\_\_\_\_\_ as per Corporation's Order No. \_\_\_\_\_ hereinafter called "The works" and more particularly described enumerated or referred to in the specification, terms and conditions prescribed in the order letter, covering letter and other letters and schedule of price which for the purpose of identification have been signed by Shri \_\_\_\_\_ on behalf of the Contractors and by \_\_\_\_\_ on behalf of the Corporation, a list where of is made out in the schedule hereunder written and all of which said documents are deemed to form part of this contract and included in the expression 'The Works' wherever herein used, upon the terms and subject to the conditions hereinafter mentioned. AND WHEREAS THE GETCO has accepted the tender of the contractor for the work of \_\_\_\_\_ of Gujarat State for the sum of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) upon the terms and subject to the conditions herein mentioned.

NOW THIS AGREEMENT WITNESSES AND IT IS HEREBY AGREED AND DECLARED THAT:

1. The contractors shall do and perform all works and things in this contract mentioned and described or which are implied therein or there from respectively or are reasonably necessary for the completion of the works as mentioned and at the times, in the manner and subject to the terms conditions and stipulations contained in this contract, and in consideration of the due provision, executions, construction and completion of the works agreed to by the contractors as aforesaid, the Corporation doth hereby covenant with the contractor to pay all the sums of money as and when they become due and payable to the contractors under the provisions of the contract. Such payment to be made at such times and in such manner as is provided by the contract.
2. The conditions and covenants stipulated hereinbefore in this contract, are subject to and without prejudice to the rights of the Corporation to enforce penalty for delays and / or any other rights whatsoever including the right to reject and cancel on default or breach by the contractors of the conditions and the covenants as stipulated in the general conditions, specifications, forms, or tender schedule, drawing, etc. attached with Corporation's Order No. \_\_\_\_\_.

The contract value, extent of works / supply, completion / delivery dates, specifications and other relevant matters may be altered by mutual agreement and if so altered shall not be deemed or construed to mean or apply to affect or alter other terms and conditions of the contract and the general conditions and the contract so altered or revised shall be and shall always be deemed to have been subject to and without prejudice to said stipulation.

In witness whereof the parties hereto have set their hands and seals this day and month year first above written.

Signed, Sealed and Delivered by

\_\_\_\_\_

for and on behalf of M/s. \_\_\_\_\_

In the presence of, signature with names and

Address: \_\_\_\_\_

Sign & Seal of Contractor

\_\_\_\_\_

\_\_\_\_\_

1) \_\_\_\_\_

2) \_\_\_\_\_

Signed, Sealed and Delivered by

\_\_\_\_\_

for and on behalf of Gujarat Energy Transmission Corporation Limited,

In the presence of, signature with names and

Address: \_\_\_\_\_

1) \_\_\_\_\_

2) \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(On the letter pad of the company)

Date:

**Declaration Of Conflict On Interest**

To,  
**The Superintending Engineer (AM)**  
Gujarat Energy Transmission Corporation Ltd,  
Circle office,  
HIMATNAGAR .

**Ref:** Tender No \_\_\_\_\_

Name of Tender \_\_\_\_\_

With reference to above your tender Notice No.....

For the work of.....

We do not have any conflict of interest with any other bidder who has submitted the bid in this tender.

**Yours Faithfully,**

**DECLARATION FOR RELATIONSHIP WITH EMPLOYEE**

(ON TENDERER'S FIRM LETTER PAD)

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

Ref: Tender No. \_\_\_\_\_

Name of Work: \_\_\_\_\_

I/We \_\_\_\_\_ S/o or D/o of Shri \_\_\_\_\_ are the authorized signatory of \_\_\_\_\_ (Name of tenderer's firm) hereby declares that the interest

(i.e. shareholding in company and share in partnership firm) of no employee of GUVNL or its subsidiary companies i.e. GETCO, GSECL, PGVCL, DGVCL, UGVCL or MGVCL or his / her relative as defined in Section 2(77) of the Company's Act 2013 is 10% or more in our company / partnership firm.

In case at any stage, it is found that the information given by me is false/incorrect, GETCO has the absolute right to take any action as deemed fit without any prior intimation to our company / partnership firm. Non disclosure of such facts would immediately disqualify the tenderer for further dealing with GETCO.

Seal & Signature of the tenderer