



(Government of Gujarat Undertaking)
GUJARAT ENERGY TRANSMISSION CORPORATION LTD
Asset Management Circle Office, Anjar
220kV Anjar S/S Compound on Bhuj road, Anjar - Kutch-370110
Phone No: (02836) 242656, Email: seanjar.getco@gebmil.com
Reg. Corporate office: Sardar Patel Vidyut Bhavan, Race Course, Vadodara-390007
Corporate Identity No. (CIN): U40100GJ1999SGC036018, Web: www.getcogujarat.com



Name of Work:- *Geo Technical Investigation for 66kV Mundra-Mundra IND line tower with embankment work at difference location, Ta. Mundra Dist. Kutch under Anjar AM Division under Anjar AM Circle*

Tender documents for Tender Notice contain following:

INDEX

DESCRIPTION
Notice inviting Tender
Integrity Pact
Technical Specification & Commercial Conditions
a) Instructions to the Bidders
b) Qualifications Requirement
c) Conditions of Contract
d) General Conditions of Contract
e) Standard Field Quality Plan
f) Technical Specifications
g) Forms & Appendices to be filled in by the bidders
Schedule-B (To be submitted in Online only)

Superintending Engineer (AM)
AM CO - Anjar

Signature of the Contractor
(With rubber stamp & Date)

NOTICE INVITING TENDER



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Tender Notice No.: **Anj/Civil/E-Tn/99/2026**

Superintending Engineer, Asset Management, Circle GETCO Anjar invites “On line Tenders” (e-tendering) for the work: **“Geo Technical Investigation for 66kV Mundra-Mundra IND line tower with embankment work at difference location, Ta. Mundra Dist. Kutch under Anjar AM Division under Anjar AM Circle”** 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 the 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 down loaded from web site <https://getco.nprocure.com> (for view, download and online submission) and GUVNL/GETCO www.guvnl.com & www.getcogujarat.com (for view & download only).

All tender documents are to be upload (notarized/ self-attested copies of original – as specified in tender documents) including scanned copy of duly attested Tender fee receipt, EMD receipt, Integrity Pact, attested tender documents with technical specification & other mention documents in qualification requirements through online only (mandatory) on (n) procure portal.

NO PHYSICAL DOCUMENTS TO BE SUBMITTED BY BIDDER

NIT No.	Anj/Civil/E-Tn/99/2026		
Name of work :-	Geo Technical Investigation for 66kV Mundra-Mundra IND line tower with embankment work at difference location, Ta. Mundra Dist. Kutch under Anjar AM Division under Anjar AM Circle		
Tender Amount:-	₹ 7,07,695.91 (including GST @18% & 1% Welfare cess)	Estimated Cost	₹ 5,93,804.25
		GST @18%	₹ 1,06,884.77
		Estimated Cost (incl. GST)	₹ 7,00,689.02
		Welfare cess @ 1%	₹ 7,006.89
Time limit:-	02 Months		
Tender fee: - (Non-refundable)	₹ 1,062.00 [900 + 162 (GST @18%)] <u>(Payment of tender fee will be accepted through RTGS/ NEFT/ Online mode only)</u>		
EMD :-	₹ 7,077.00 <u>(Payment of EMD will be accepted through RTGS/ NEFT/ Online mode only)</u>		
Appropriate Class:-	Approved vender of GETCO only		
Type of Tender (Works):-	Percentage Basis on FIRM PRICE		
On line (e-tendering) tender/offer submission last date up to 16:00 hours only (This is mandatory)	22-09-2026		
Date of opening of Preliminary & Technical stage (On-line opening)	22-09-2026		
Tentative Date of online opening of price bid (If possible)	After evaluation of Technical bid		

Signature of Contractor

3 | Geo. investigation of 66kV Mundra-Mundra IND line (Anj/Civil/E-Tn/99/2026)

IMPORTANT:

- Bidder has to upload scanned copies of original (Notarized / self-attested copies of original – as specified in tender document) i.e. Tender fee, EMD, Integrity pact, GST Registration documents & other mandatory qualification requirement documents for specified bid.**
- All such documents should be strictly submitted through on-line uploading. Otherwise the offer not be considered and no any further communication in the matter will be entertained on or before due date of submission. However, of anywhere in tender documents submission of than this document or physical submission mentioned to be overlooked.
- Bidders have to submit Technical bid as well as Price bid in electric format only on above mentioned website till the date and time shown above.
- If the EMD amount is should be paid only payment mode only. Payment of EMD by RTGS/NEFT/on-line shall be encouraged. After the payment through RTGS/NEFT bidder has to mail following details**

Sr. No.	Required Details
1	Name of Work: Geo Technical Investigation for 66kV Mundra-Mundra IND line tower with embankment work at difference location, Ta. Mundra Dist. Kutch under Anjar AM Division under Anjar AM Circle
2	Tender No.
3	Name & Address of the bidder
4	Bidder GST No
5	Tender No with due date
6	Mode of Transfer
7	Ref. ID with Bank Details
8	Paid Amount
9	Payment against (Tender Fee/ EMD)

To,

- (a) cashtr.anjar@gebmail.com,
(b) setranjar.getco@gebmail.com
(c) aotr.anjar@gebmail.com
(d) decivilanjar@gebmail.com
(e) decivilanjar1.getco@gebmail.com

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

5. **GETCO Beneficiary Bank detail is as under:**

1	Name of Account Holder	Gujarat Energy Transmission Corporation Ltd.
2	Account No.	90830200001383
3	Name of Bank	BANK OF BARODA, NAYA ANJAR BRANCH
4	Branch Code	29
5	Address of Bank	NAYA ANJAR BRANCH
6	IFSC Code	BARB0DBNAYA <i>(Fifth digit numerical zero)</i>
7	PAN No	AABCG4029R
8	TAN No	RKTG00928E
9	GST No	24AABCG4029R2ZC

The transection slip of payment made by RTGS/NEFT is to be uploaded in N- procure With tender documents.

6. 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 electric mode (E-

Mail).

7. It shall be sole responsibility of the bidder that the uploaded scanned documents (in PDF from) remain legible and should not be password protected.
8. All the relevant scanned documents as per requirement of the tender are to be upload through online only on n-procure portal including Tender fee, EMD, attested Integrity Pact & GST registration copy.
9. Tender will be evaluated on basis Data / Details / Documents of the online offer only. It is mandatory for all the bidders to upload their tender documents by on line (E-tendering) in scheduled time. **No documents shall be considered physically which are mentioned for on-line submission only.**
10. The bidders are required to fill up all the online annexure / forms. This is intended for transparency and speedy evaluation of the bids. Instead of simply confirming / attached in bid, 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 owner has every right to evaluate the bids accordingly and bidder cannot raise any objection against any point during evaluation.)

11. Bidders are requested to remain in touch with the web-site for any amendment / corrigendum or extension of due date etc.
12. No tender shall be accepted / opened in case of receipt after due date and time of tender or any other reasons and the Corporation shall not assume any responsibility for late receipt of tender.
13. The Earnest Money Deposit and tender fee will be accepted by only NEFT/RTGS/ On-line mode. EMD and Tender Fee payment through NEFT/RTGS with different purchaser or agency shall not be accepted. Tender without EMD and tender fee shall be rejected. Two separate transaction for Tender fee and EMD should be submitted.
14. 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 (AM), Asset Managment Circle GETCO-Anjar, Opp. Kailash bag, Anjar - Bhuj Road, 220KV Anjar Sub Station, Anjar – 370110 District: Kutch, Gujarat

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

Yours faithfully,

**The Superintending Engineer (AM)
AM Circle, Anjar**

Tender Acceptance letter

TENDER NO:- **Anj/Civil/E-Tn/99/2026**

Sub: Geo Technical Investigation for 66kV Mundra-Mundra IND line tower with embankment work at difference location, Ta. Mundra Dist. Kutch under Anjar AM Division under Anjar AM Circle

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

- 1) I / we, the undersigned, have read and examined each page/documents of above tender documents in detail.
- 2) I / we declare that we accept all the conditions of the above tender unconditionally / I We don't have any objection for any clause, point or condition. If there will be any deviation found, in bid, the offer shall be out rightly rejected without assigning any reason thereof.
- 3) In any legal implication in future if any, this document can be used as authentic consent from our side.

Signature of Authorized Representative of Company / Agency

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

I N T E G R I T Y P A C T
O U R E N D E A V O U R

Name of Work: Geo Technical Investigation for 66kV Mundra-Mundra IND line tower with embankment work at difference location, Ta. Mundra Dist. Kutch under Anjar AM Division under Anjar AM Circle

Ref: Anj/Civil/E-Tn/99/2026

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 and the nation.

<u>GETCO COMMITMENT</u>	<u>PARTY'S COMMITMENT</u>
○ To maintain the highest ethical standards in business and profession.	○ Not to bring pressure / recommendations outside GETCO to influence its decision.
○ Ensure maximum transparency to the Satisfaction of stakeholders	○ Not to use intimidation, threat, inducement or Pressure of any kind on GETCO or any of it's employees under any circumstances.
○ To ensure to fulfill the terms of agreement / contract and to consider objectively the viewpoint of parties.	○ To be prompt and reasonable in fulfilling the contract, agreement, legal obligations.
○ To ensure regular and timely release of payment on due dates for work done.	○ To provide goods and / or services timely as per agreed quality and specifications at minimum cost to GETCO.
○ To ensure that no improper demand is made by employees or by anyone on our behalf.	○ To abide by the general discipline to be maintained in our dealings.
○ To give maximum possible assistance to all the Vendors / Suppliers / Service provider and others to enable them to complete the contract in time.	○ To be true and honest in furnishing information including payment to agents / sub-agents.
○ To provide all information to suppliers/ contractors relating to contract / Job which facilitate him to complete the contract / job successfully in time.	○ Not to divulge any information, business details available during the course of business relationship to others without the written consent of GETCO.
○ To ensure minimum hurdles to Vendors/ suppliers / contractor's in completion of agreement / contract / work order.	○ 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) Name:

PART- II

Technical Specification & Commercial Conditions



(Government of Gujarat Undertaking)
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(A) INSTRUCTIONS TO THE BIDDERS

(A1) SCOPE OF WORK:

Major works covered in this work are **“Geo Technical Investigation for 66kV Mundra-Mundra IND line tower with embankment work at difference location, Ta. Mundra Dist. Kutch under Anjar AM Division under Anjar AM Circle”** as per specifications and terms mentioned here under.

- (1) The site of proposed work is situated **at location Mundra area under Anjar AM Division Office - Anjar, Dist. Kutch**. The works shall be carried out as per tender's specifications & detailed work order.
- (2) Any activity not specifically mentioned in the tender but necessary in the opinion of engineer in charge of work must be carried out for successful completion of the job, on getting approval of competent authority of GETCO.
- (3) Before taking up construction activity; the agency has to cut the trees which obstruct the working, of any diameter, bushes, vegetation's, i.e. roots, plant, shrubs, grass etc. including stacking and crediting to GETCO as directed with no extra cost.
- (4) Site visit: The bidder is advised to visit the site and examine the site condition. Where in the work is proposed to be carried out and to get himself fully acquainted at his own responsibility for all information that may be necessary for quoting the tender bid and entering in to contract. All cost and liabilities arising out of the site visit shall be at bidder account.

(A2) Earnest money Deposit:

- (1) Bidders are requested to pay an earnest money deposit (1% of estimated cost with GST) **by online (NEFT/RTGS)** payment only, for the amount as specified in the tender notice. Payment of EMD in any other form shall not be accepted.
- (2) 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.
- (3) Tenders not accompanied by EMD shall be rejected.
- (4) If during the tender validity period, **i.e. 180 days**, the tendered withdraws his tender, the EMD shall be forfeited and the tenderer may be disqualified from tendering for further works of GETCO.
- (5) The EMD will be returned promptly to the unsuccessful tendered. The EMD will be returned to the successful tendered 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 tendered may be disqualified from tendering for further works for GETCO.

Note:-

(A) 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 Dt.31-03-2027**. The validity cut-off date in GR is with respect to date of issue of Bank Guarantee irrespective of date of termination of Bank Guarantee.

1. AXIS Bank
2. AU Small Finance Bank
3. Bandhan Bank
4. City Union Bank
5. CSB Bank
6. DBS Bank India Limited
7. DCB Bank
8. Dhanlaxmi Bank
9. Equitas Small Finance Bank

Signature of Contractor

10 | Geo. investigation of 66kV Mundra-Mundra IND line (Anj/Civil/E-Tn/99/2026)

10. FEDERAL Bank
11. HDFC Bank
12. HSBC Bank
13. ICICI Bank
14. IDBI Bank
15. IDFC Bank
16. IndusInd Bank
17. Jammu and Kashmir Bank
18. Jana Small Finance Bank
19. Karnataka Bank
20. Karur Vysya Bank
21. Kotak Mahindra Bank
22. RBL Bank
23. South Indian Bank
24. Standard Chartered Bank
25. Tamilnadu Mercantile Bank
26. Ujjivan Small Finance Bank
27. YES Bank
28. Ahmedabad Mercantile Co-op. Bank
29. Nutan Nagarik Sahakari Bank Ltd.
30. Rajkot Nagarik Sahakari Bank Ltd.
31. Saraswat Co-operative Bank Ltd.
32. SBPP Co-operative Bank Ltd.
33. SVC Co-operative Bank LTD.
34. The Cosmo Co-op Bank Ltd.
35. The Gujarat State Co-operative Bank
36. The Surat District Co-operative Bank
37. The Surat People's Co-op. Bank Ltd.
38. The Baroda Central Co-operative Bank
39. The Panchmahal District Co-operative Bank
40. The Kalupur Commercial Co-op. Bank
41. The Rajkot Commercial Co-operative Bank
42. The Banaskantha Mercantile Co-op. Bank
43. Gujarat Gramin Bank

Guarantee of other than above mentioned banks towards EMD/SD, Performance Bank Guarantee for Supply & Warranty will not be acceptable.

(A3) COMPLETION PERIOD: The time limit for the completion of the above work will be **02 (Two) Calendar months** from the commencement of the work, which will be issued by the Circle Office at the time of execution.

One month additional will be considered for the rainy season if the scheduled execution period falls within the period from 1st July to 31st October. In case the duration of execution is not exactly falls for a period of 1st July to 31st October, the proportionate days shall be given based on the duration falls between period 1st July to 31st October. e.g.

- If entire duration falls between 1st July to 31st October, 30 days allowable towards rainy days.
- If the execution period falls short by four months, then the proportionate days shall be calculated based on following formula.

Delay allowable on account of rainy period = $30 \times N/120$

Where N = Number of days falling between period 1st July and 31st October.

Note: While applying this formula no extension of time limit shall be permitted on account of delay due to rain.

- 15 days additional will be considered where hard rock strata are available.

- Delay due to power supply will be considered in TLE only if the agency applies for power supply to DICOM within 5 days from the date of issue of LOI. It is necessary for the bidders to apply within first 5 days from the date of LOI for temporary power connection considering 5 days required by Distribution Company to provide the power connection as per their SOP, making thereby availability of power supply on 10th day of LOI.

Any delay in making the application for temporary power connection beyond initial 5 days shall be on account of bidder.

Compensation for the delay: The time limit allowed for carrying out the work as entered in the tender shall strictly observed by the contractor and shall be reckoned from the date on which the order to commence the work is given to the contractor. The work shall throughout the stipulated period of contract the proceeds with due diligence (time being deemed to be essence of contract) and for delay, the contractor shall subject to the penalty @½% per week *plus applicable taxes (if any) as applicable* or part thereof on delayed portion of work and / or supply value subject to ceiling of 10% of the total contract value *plus applicable taxes (if any) as applicable* will be imposed.

(A4) SECURITY DEPOSIT:

As per prevailing rules of the Corporation, 5% of the contract value shall be paid as 'Security Deposit'. As per Government of Gujarat vide circular No. JNV.10212/520A dtd. 26.06.2012 & GERC audit report, contractor has to pay 100% SD upon placement of LOI within 10 days. Therefore, 100% of S.D. shall be paid at **GETCO AM Circle, Anjar** within 10 days from receipt of letter of intent **either**

- a) In form of DD in favor of "Gujarat Energy Transmission Corporation Ltd" of any Nationalized Bank
OR
- b) In form of Bank Guarantee of any Nationalized Bank as per the approved format of the Corporation valid for minimum period of time limit plus guarantee period of one year.

Alternatively, 100 % S. D. in form of DD or B.G. may be submitted on receipt of LOI. The security deposit will be refunded only after the completion of 1 year guarantee period of work completed or finalization of final bill whichever is later.

If Security Deposit is not paid within 10 days of issue of LOI, EMD paid will be forfeited and Corporation will not deal with party for the period of two years.

If SD amount is less than 100000.00/- only DD will be accepted.

(A5) Other Instructions:

1. Tenders must be submitted in the enclosed schedule of work & quantities. Those received in any other form will not be accepted. They should be accompanied by a covering letter in which the bidder should give all information as called for in the specifications & any other point which he would like to be considered along with the tender.
2. **The Schedule-B shall be filled up with the quoted % above or below & shall be submitted online only.**
3. The bidders shall note that no deviations from the technical specifications or commercial conditions with this bid are acceptable & it will be presumed that the bidder agrees entirely with the specifications & general terms & conditions of the contract.
4. The Corporation reserves the right to accept any tender irrespective of whether it is lowest or not or to reject all the tenders without assigning any reasons thereof. Tenders departing from the technical Specification or the method of bidding in a radical manner may also be rejected.
5. On acceptance of the tender the name(s) of the accredited representative(s) of the tenderer who would be responsible for taking instructions from the Engineers of the Corporation shall be communicated to the **Superintending Engineer (AM), Gujarat Energy Transmission Corporation, AM Circle, Anjar.**
6. **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. **Goods and Service Tax (GST)**
 - a) The F.O.R. Destination prices are excluding GST at the rate of 9% CGST plus 9% SGST or 18% IGST, under the GST Law or as applicable to Works Contract Services from time to time which will be paid extra on a given taxable goods and/or services within the original contractual delivery period. The amount and % of CST and Cess should clearly be indicated separately. GST/Cess means all applicable Tax/Cess under GST Laws. (GST Laws means IGST Act, GST(Compensation to the State for Loss of Revenue) Act, CGST Act, UTGST Act and SGST Act, 2017 and all related ancillary legislations).

- b) You shall have to submit a C.A Certificate & duly authorized Signatory of successful bidder, certifying that you have not claimed Refund of any applicable GST and Cess, charged to COMPANY or shall not claim any such Refund, on a future date, from the concerned Authorities and if, any Refund, in respect of such GST and Cess, is claimed by you, it will be immediately passed on to the COMPANY, without COMPANY making any specific Claim, for the same, either from the Department or from you.
- c) The offers having price INCLUSIVE OF CST is likely to be rejected if the rate of CST is not mentioned clearly.
- d) 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 Contractor. However, any refund received by the 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.
- e) Further, the Company has a right to recover the amount of CST along with penal interest at the rate of 15% per annum or any other amount charged by CST Dept. whichever is higher 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 Contractor within the stipulated time limit.
- f) In case, Govt. revises the rate of GST rate / Code during the tenure of the contract, the provision of GETCO's statutory variation clause shall apply.
- g) 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 CST 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.
- h) GST, other taxes and other levies and duties including custom duty solely in respect of the transaction between the owner and the contractor under this contract, if any, shall be included in the bid price. These shall also be indicated separately wherever applicable as mentioned in the Tender.
- i) As regards the income Tax, surcharge on income tax and any other corporate tax, including GST if any 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.
- j) Notwithstanding the tax liabilities, 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.
- k) Whenever concessional rate of GST is indicated by the bidders; it shall be confirmed whether any increase in the rates that becomes applicable during the performance of the contract would be absorbed by the supplier. Bidder shall note that in case of absence of such confirmation; the tenders will be evaluated taking into account the maximum rate of GST applicable.
- l) 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-suppliers, sub-contractors for raw materials etc and will be applicable only to the direct transactions between the contractors and owner. Besides the said statutory variation, no other statutory variation shall be payable by the owner.
- m) The owner's liability for all taxes and duties including CST under the contract shall be limited to those indicated by the Bidder in the Bid Proposal Sheets, subject to the statutory variations.

- n) 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. It is the Bidders responsibility to furnish details of taxes, duties, levies etc. applicable as on the date of submission of the bid.
- o) 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. However, the decrease in any taxes/duties shall be passed on to GETCO.
- p) 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.
- q) Before quoting, the bidder may ascertain from the concerned tax authorities of Government for the applicability of 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.
- r) Final bill shall be passed & paid only if contractor has duly discharged its GST liability related to the contract and submit C.A. certificate and under taking.

STATUTORY VARIATION:

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

Proof of payments of taxes made by the contractor to the appropriate departments shall be produced to Gujarat Energy Transmission Corporation failing which appropriate amount shall be withheld on getting information/instruction from the concerned departments

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

GST Registration on GETCO's web portal:

The Bidder should have to take registration under the "GOODS AND SERVICE TAX (GST)". Bidder has to register online in given link before bidding. Link for the same is www.getcogujarat.com/gst/ The certified Xerox copy of such registration shall have to be submitted along with the bid by the bidder.

On forfeiture of EMD, SD or guarantee under the terms and condition of this tender, applicable GST will also be recovered from the bidder/ contractor and GETCO reserves all rights of such recovery of such forfeited amount along with GST.

- **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 you.

8. WELFARE CESS

As per the Welfare Cess Act, the welfare cess @ 1% is applicable on supply, erection items for supply, erection, testing & commissioning of substation, transmission lines, EPC/Turnkey projects and civil works.

 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.

- ✚ The welfare cess@1% is considered in the price schedules so, the bidders are requested to quote accordingly.
 - ✚ GETCO shall pay the welfare cess by way of reimbursing to contractors on production of documentary evidence of payment.
 - ✚ 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 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 the 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.
9. The successful contractor will have to sign an agreement as per the Gujarat Energy Transmission Corporation rules on stamped paper & the necessary stamp duty charges shall be borne by the contractor.
 10. The bidder shall visit the site and carefully study the work to be carried. The Corporation will not pay any extra or rate for any reason in case the contractor claims, after acceptance of contract, to have misjudged the site condition.
 11. The percentage quoted shall include cost towards of all materials, & machinery including equipment's, fixtures, labour, constructional equipment's, fuel, scaffolding, staging, ramps, walkways, approach and haul road, temporary works, etc. bearing permanent or temporary nature necessary for the completion of the work in all respects, except for those items specifically mentioned to be furnished by the Corporation. The contractor must also arrange for the transport of materials & include all such costs in the rates quoted by him for finished work.
 12. During the execution of the work if it is found that the work is not progressing as per the Scheduled Progress Program, approved by the Corporation & planned by the Contractor, due to the reasons attributable to the Contractor; suitable action shall be taken as per relevant clauses mentioned in General Conditions of Contract.
 13. The contract or any part thereof shall not be subject to change without the written permission of The Superintending Engineer (AM) Gujarat Energy Transmission Corporation, Circle Office, Anjar, or his authorized representatives.
 14. Tender shall remain open for acceptance for a period of **180 days** from the date of Technical bid opening & during this period no bidder shall be allowed to withdraw his tender. Any such withdrawals, during the said period will entail forfeiture of the earnest money deposited with the tender. The GETCO will take further action as deemed fit like not to deal with bidder in GETCO works.
 15. Further information required, if any, can be had from the office of The Superintending Engineer (AM), **Gujarat Energy Transmission Corporation, Circle Office, Anjar**. But it must be clearly understood that the tenders must be received complete in every respects by the due date & time
 16. The notice inviting tender, general instructions to the contractors & all documents of this tender shall form part of the contract.
 17. The works under this contract shall be completed in all respects within stipulated period from the date of commencement order issued by field office. However, interim mile stones to be jointly fixed after issue of LOI.
 18. Bidders must quote firm price only, till completion of work under contract, & this is to be confirmed by bidder while submitting his offer. No escalation towards labor and material / fuel shall be paid in this execution of contract.

19. Contractor shall pay minimum wages to his laborers as per the Minimum Wages Act, 1948 & rules there under as applicable from time to time in pursuant to the State Government notification. The concerned contractor shall submit the details of the payment with due certificate of LWO/IRO of the Corporation
- 20. Once the offer submitted will not be returned back for any reason thereof in any case.**
21. Each tender shall contain the name, residence & place of business of person or persons making the tender & shall be signed by the tenderer with his usual signature with seal of the company.
22. Tender by partnerships shall furnish the full names of all partners. It shall be signed with the partnership name by one of the members of the partnership or by an authorized representative followed by the name & designation of the person signing.
23. An attested copy of the constitution of the firm with the name of partners shall be furnished. Whenever, whether in submission of the tender or later in other matters, the signatures are made by one person on behalf of Directors or a firm or a corporation, an attested copy of the resolution of the partners or of law shall be supplied by the tenderer authorizing Witnesses & sureties shall be persons of status & probity, & their names, occupation & address shall be stated below their signatures. All signatures shall be dated.
24. Tenders by corporation shall be signed with the legal name of the corporation followed by the name of the state of incorporation & by the signature & designation of the president, secretary or other person authorized to bind it in the matter with rubber seal of the company.
25. The GETCO reserves the right to delete any item of Schedule-B for which contractor shall not have any right to claim on this account.
26. The Bidders shall study the Conditions of site & shall resort to dewatering, where necessary, by appropriate methods & maintain reasonably dry areas to work at and no extra claim will be entertaining on this account.
27. The Contractor shall prepare all required roads to execute various items of this Contract & arrange all transport of materials & all such costs shall be taken care of while quoting the rates.
 - a. No extra payments shall be admissible towards such costs. On completion, this shall be cleared if asked by GETCO at no extra cost.
28. Gujarat Energy Transmission Corporation shall not entertain idle charges for any site conditions or any circumstances.
29. The Contractor shall take all requisite & necessary care to observe that no damage is occurred to the Existing structures, if any. For any damage to the Existing Structures of Gujarat Energy Transmission Corporation the Contractor shall be held responsible.
30. The submission of any bid connected with these document and specification shall constitute on agreement that bidder shall have no cause of action or claim against the GETCO for rejection of his bid. The owner shall always be at liberty to reject or accept split any bid or bids at his sole discretion and any action will not be called into question and the bidder shall have no claim in that regards against the owner.
- 31. Recoveries:**
 - i. In case of any damage to equipment/machinery or structure/building of GETCO or any public property due to negligence's of contractor or any other reasons attributed to contractor the decision of E.I.C. regarding the amount of recovery shall be final and binding.
 - ii. If the contractor fails to execute the proportionate work as per direction of E.I.C. within the time frame given for completion of part / whole of the work GETCO shall get the work done through any other contractor and the cost of execution of such work along with 15% overhead charges shall be recovered from contractor.
32. Notwithstanding anything contained to the contrary in the specification or tenders in subsequent exchange of correspondence, the conditions of contract shall be binding on the contractor and any change or variations expressed or implied, however made in the said conditions shall not be valid or operative unless expressly sanctioned by the Corporation. The contractor shall be deemed to have fully informed himself and to have special knowledge of the provisions of the conditions of contract herein contained.
33. Submissions of tender by a contractor implies that he has read the instructions and condition of contract herein contained and has made himself aware of the scopes and specifications of the work to be done.
34. These rules and directions shall form part of the contract.
35. **Drawings:** Drawings required for the works are available with the E.E. (Civil) of Circle Office, Anjar, they are indicative and for tender purpose only. Bidders shall have to execute the work as per construction drawings issued from time to time by GETCO.

36. **Electricity Connection:** The electric power, at site, will be made available at one mutually agreed points, free of cost (connection only) by Gujarat Energy Transmission Corporation only. Further distribution will have to be carried out by the contractor as per requirements at their own cost. The necessary consumption charges will be recovered as per the tariff rate of Gujarat Energy Transmission Corporation from time to time as per Corporation's rules.
37. **Construction Water:** The contractor has to make his own arrangement of water for construction activity at his own cost. The contractor shall be allowed to draw water from bore well / open well by making his own arrangement such as drilling, pump with all electrical accessories, pipe line & electricity to run the bore well /open well from the electric power point provided by DISCOM to them. Water shall be free of cost to the contractor. The electrical consumption charges to run the bore well / open well shall be borne by the contractor.
38. In those cases, where in bore well has been constructed at the cost of GETCO as per contract, even then no water charges shall be charged, however electricity connection & electricity charges till the completion of work shall be to contractor accounts.
39. **Tenders received after time:** The tenders received after time and date specified in the tender notice, will not be accepted. Once the offer submitted by the contractor before due date of submission, the contractor will not be allowed to submit revised / additional / modified / other even before due date. However, if the issue and receipt of tender is extended by the Corporation due to any reason, the contractor may submit the revised offer before due date of submission, if he wishes to submit.
40. The work shall be completed within the period stipulated in the contract. However, it may be noted that drawings shall be released progressively & site clearance arranged accordingly to the progress of work at site. Therefore, the contractor has to organize & coordinate the works to suit these. In the event of any delay due to the above or due to any other reason not attributable to the contractor, reasonable extension in the completing the work may be given at the discretion & as decided by the Corporation but no compensation or idle charges will be paid to the contractor under any circumstances.
41. The price bid/proposals will be opened in the presence of the bidder's representatives who choose to attend at the date and time and venue to be notified by the GETCO, after conclusion of the Technical Evaluation and Post Qualification process.
42. GETCO will not issue any material required for the work. All the materials – tools & tackles, labour etc. will have to be arranged by the contractor.
43. The final scrap amount after applying above/below, shall be deposited by DD of nationalizes bank to GETCO-Anjar, before starting the demolition work.
44. **ACCEPTANCE OR REJECTION OF BID**
 - a) The GETCO reserves the right to accept any tender irrespective of whether it is lowest or not or to reject all the tenders without assigning any reasons thereof.
Tenders departing from the stipulated technical specifications, commercial conditions or the method of bidding in a radical manner are liable to be rejected.
 - b) The bid is liable for rejection prima facie, if it is
 - c) **Without payment of EMD / Tender Fee. Or Payment of EMD / Tender fee in any form other than online payment (NEFT/RTGS) only**
 - d) Not in prescribed form.
 - e) Not bearing signature of the bidder & seal of the company on all the documents accompanying the tender.
 - f) Not confirming to specifications or conditional tender.
 - g) Received after expiry of the due date & time.
 - h) Received by telex or telegram or fax.
 - i) Submitted by bidders who are listed under declaration of ineligibility for corrupt or fraudulent practices issued by GETCO, Govt. of Gujarat or its Public Sector under taking.

Tender not fulfilling all the above conditions and those specified in the documents attached or incomplete in any respect are liable to rejection.

SECTION- B

Qualification Requirement

1. **Registration:** Bidder quoting for the bid shall have **Registration and approved vender with Gujarat Energy Transmission Corporation Limited (GETCO) only.**
2. **Experience:** Bidder should have experience of similar work including Geo Technical Investigation/Soil bearing Capacity (SBC) work and as like under single contract as main contractor for minimum of **50% value** of estimated cost of the tender with GETCO/ GEB / Central / State Government / Railway / Semi- Government / Public Sector Organization **within last 3 years.** Attested copy of work orders executed which 3A form are attached from GETCO/ GEB / Central / State Government / Railway / Semi- Government / Public Sector Organization and satisfactory completion certificate from respective department should be submitted.
3. **Solvency:** Latest bank solvency certificate (not more than 1-year-old of tender publish as on date) from any Nationalized/Scheduled Bank of a sum of minimum 20 % of the estimated cost shown in the tender. **The solvency should be in the name of "To Whomsoever it may concern" or "GUJARAT ENERGY TRANSMISSION CORPORATION LIMITED (GETCO)"**
4. **Certificate:** Bidder quoting for the bid shall have certificate from NABL.
5. **Provident Fund Code:** Separate provident fund code number towards firm registered with Regional P. F. Commissioner.
6. **Profit & Loss Account Statement:** The Bidder should submit certified Xerox audited copy of the Balance sheet with profit and loss account of last three years with IT returns audited by CA.
7. **Nature of Firm:** Attested copy of **Partnership Deed with recent Form-G obtained from Registrar of firms for the current year, Power of Attorney**, if any, for signing the bid documents in case of partnership firm & **self-affidavit for proprietorship firm.** In case the Form-G is not available for current year Affidavit cum Undertaking of the firm declaring no change in Form-G is to be submitted. **However, this affidavit cum undertaking should be executed only by Partnership firm.** The party shall be liable to give fresh affidavit cum undertaking, after completion of its one year. All such documents shall have to be **NOTARISED**
8. **Goods & Service Tax (GST) Registration:** The Bidder shall be registered under the "Goods & Service Tax (GST) – ACT". The certified copy of such registration indicating the GSTIN shall have to be submitted along with the bid by the bidder.
9. **I.T. PAN CARD:** The bidder should submit the attested Xerox copy of PAN Card of their firm.
10. **Annexure:** All the Annexure must be filled by the Contractor on their own Letter pad as per the format attached duly signed and all details filled properly.

All the documents to be submitted/uploaded in soft copy shall be self-attested /notarized.

Note 1: For Sr. No. 1- Registration & **Sr. No. 2 Experience, estimated cost without GST** shall be considered. For **Sr. No. 3- Solvency, estimated cost with GST** shall be considered

Signature & Stamp of Contractor

**Superintending Engineer (AM)
AM Circle, Anjar**

Signature of Contractor

18 | Geo. investigation of 66kV Mundra-Mundra IND line (Anj/Civil/E-Tn/99/2026)

AFFIDAVIT CUM UNDERTAKING
(On Rs.300/- stamp paper duly notarized)

We, Shri _____ (names of all partners/or POA holder) of M/s. _____
(name of partnership firm) having registered place of business at _____ do
hereby solemnly state and affirm on Oath as under:

1. That Form G upto last entry dated _____ has been submitted to GETCO by us.
2. That since this Form G is not of current year, it is affirmed that whatever entries specified by Registrar of Firms in this submitted Form G is true and correct and that, there is no any modification or change in any of the partners or other details. It is further affirmed that we are liable& bound to disclose to GETCO immediately, if there is any change and/or modification in partnership of this firm.
3. That if GETCO finds any undisclosed modification/amendment in partners or other details at any time, then they shall be entitled to take any legal action us / partnership firm. GETCO shall be empowered to step-deal and /or black-list our firm for any contract, ay such instances.
4. That whatever stated in aforesaid paras and contents therein are true and correct and shall be binding on all the partners of this partnership firm, which includes their heirs, representative, assignees, executors etc.

Hence solemnly affirmed on this _____ day of _____ months of 20____ at _____.

DEPONANTS
(name & sign of all partners / or
POA Holders)

Dated:

Place:

For Proprietorship firm only

Self-Affidavit for proprietorship firm

(On Rs.300/- stamp paper duly notarized)

I the undersigned _____ hereby solemnly declare on oath that I am the sole proprietor of the firm _____. The proprietorship concern is solely owned, managed and controlled by me.

The signature appearing in the contract agreement is signed by me and is true.

I hereby state that whatever is stated herein above is true and correct to the best of my knowledge and belief.

Hence solemnly affirmed on this _____ day of _____ of 202

Deponent

Place:

Date :

SECTION - C

GENERAL CONDITIONS OF CONTRACT

(C) GENERAL CONDITIONS OF CONTRACT

1. Definitions:

- (a) The Contract means the documents forming the tender and acceptance thereof, together with the documents referred to therein or individual work order in the case of term contract, including these conditions, schedules and / or additional conditions attached to the form of tender or individual work, order, rate schedule, the specifications and the drawings and all these documents as applicable taken together shall be deemed to form the contract.
- (b) The "Tender Document" means the form of tender, the applicable schedules and/or additional conditions and the specifications and/or drawings as issued to the contractors for the purpose preparing tender.
- (c) The expression "works" or "work" when used in the conditions of contract shall, unless there be something in the subject or context repugnant to such construction means, the works or the work contracted to be executed under or in virtue of the contract whether original or altered.
- (d) The "Contractor" means the individual or firm or company, whether incorporated or not, undertaking the works and shall include his or its legal personal representative, successors and permitted assignees.
- (e) "Corporation" means the Gujarat Energy Transmission Corporation Ltd. and the "Accepting Officer" means the officer who is authorized to sign and signs the contract on behalf of the "Corporation."
- (f) The letter "EE" means Executive Engineer who in the case of measurement and lump sum contract, direct the contractor and the letters "ACE" means "Add Chief Engineer" and "C.E" means "Chief Engineer" who administers and in the case of the term contracts directs the contract.
- (g) The "Engineer-in-charge" means all officers of the Corporation appointed by the Chief Engineer to supervise the works or part of the works.
- (h) "Approved" and "Directed" means the approval or direction of the Chief Engineer to Supdt. Engineer or the person deputed by him for the particular purpose.
- (i) "B.S." means the "British Standard" as issued by the British Standards institution. "A.S." means the American Standards as issued by the American Standard Institutions and "I.S." means the "Indian Standards" as issued by the Indian Standards Institutions. Wherever the above-mentioned abbreviations are preferred to, in the specifications and / or work orders, they mean the addition with all amendments current at the date of issue of tender documents of work orders. In the case of measurement and terms of contracts "Specifications" means those contained in Gujarat Energy Transmission Corporation Ltd. schedule together with any amendments etc. embodied in the tender documents, "Drawings" refer to those accompanying the tender documents and/or any work orders referred therein.
- (j) The "Contract Sum" means the sum accepted or the sum calculated in accordance with the prices accepted in the tender and/or the contract rate as payable to the contractor for the full and entire executing and completion of works.
- (k) "The date of completion" is the date or dates of completion of the work or any part of the works set out or ascertained in accordance with the individual work orders and the tender documents or any subsequent agreed amendments thereto.
- (l) GST/Cess means all applicable Tax/Cess under GST Laws. GST Laws means IGST Act, GST (Compensation to the State for Loss of Revenue) Act, CGST Act, UTGST Act and SGST Act, 2017 and all related ancilliary legislations.
- (m) 'Owner' shall mean the Gujarat Energy Transmission Corporation Ltd, Vadodara or any of its group companies i.e. GUVNL, GSECL, MGVL, DGVCL, PGVCL UGVCL and shall include its legal representatives, successors and assigns.

2. Security Deposit: The contractor shall, within 10 days of the issue of Letter of Intent, pay 5% of contract value as Security Deposit; DD as prescribed in Schedule "C". All damages, costs, charges, expenses and other sums which may be or may become due or payable by the contractor to the Corporation under the terms of the contract may be deducted from the cash in the proceeds of sale of the Securities/Bank Guarantee to deposited (which the officer or person to whom the same may be endorsed as aforesaid is hereby authorized to sell / to encase for that purpose) or from the interest of any such securities or from any sums due or which may become due to the contractor by the Corporation or from the whole or the balance unpaid as aforesaid of the encase securities so deposited being repaid or transferred and returned as may be to contractor after the date on which the final bill is paid or after the expiry of the date up to which the contractor has to maintain the work in good order whichever is later.

"For Water Proofing Treatment: -The contractor shall submit performance guarantee of the waterproofing item at the rate of 20% of cost of item of work order in the form of DD of Schedule Bank /

Nationalized Bank in favor of GETCO (A/c Agency) for a period of 5 years from actual date of completion of work on non-judicial stamp paper of appropriate value in approved format of GETCO. In the event of unsatisfactory performance of waterproofing work, the agency shall carry out necessary remedial/rectification works that may be necessary in the opinion of GETCO at no extra cost, failing which performance guarantee shall be uncashed by GETCO. The performance guarantee shall be released only after satisfactory completion of performance period of 5 years.”

“For Anti-Termite Treatment: -The contractor shall submit performance guarantee of the anti-termite treatment item at the rate of 20% of cost of item of work order in the form of DD of Schedule Bank / Nationalized Bank in favor of GETCO (A/c Agency) for a period of 5 years from actual date of completion of work on non-judicial stamp paper of appropriate value in approved format of GETCO. In the event of unsatisfactory performance of anti-termite treatment work, the agency shall carry out necessary remedial/rectification works that may be necessary in the opinion of GETCO at no extra cost, failing which performance guarantee shall be UN cashed by GETCO. The performance guarantee shall be released only after satisfactory completion of performance period of 5 years.”

3. Compensation for the delay: The time limit allowed for carrying out the work as entered in the tender shall strictly observed by the contractor and shall be reckoned from the date on which the order to commence the work is given to the contractor. The work shall throughout the stipulated period of contract the proceeds with due diligence (time being deemed to be essence of contract) and for delay, the contractor shall subject to the *penalty @ $\frac{1}{2}$ % per week plus applicable taxes (if any) as applicable or part thereof on delayed portion of work and / or supply value subject to ceiling of 10% of the total contract value plus applicable taxes (if any) as applicable will be imposed.*

In event of failure of the contractor to pay the amount of penalty as demanded, the Owner shall be entitled to deduct the amount of penalty for delay from the amounts payable under any other contract with the GUVNL and its subsidiary companies i.e. GETCO, GUVNL, GSECL, MGVL, DGVCL, PGVCL, UGVCL. It is permissible for the owner to adjust the amount of Penalty of delay against any bank Guarantee furnished by the contractor under this contract or any other contract with GUVNL and/or its subsidiary companies.

4. Action when whole of Security Deposit is forfeited: In any case in which under any clause or clauses of this contract the contractor shall have tendered himself to pay compensation amounting to the whole of his security deposit (whether paid one sum or deducted by installments) or in the case of abandonment for the work owing to serious illness or death of the contractor or any other cause, the Executive Engineer on behalf of the Corporation, shall have powers to adopt, (a) below and any of the following courses under (b) and (c) as he may deem best suited to the interest of the Corporation.

(a) To rescind the contract (for which rescission notice of 10 days) in writing to the contractor under the hand of the Executive Engineer shall be conclusive evidence and in that case the security deposit of the contractor shall stand forfeited and absolutely at the disposal of the Corporation.

(b) To employ labour paid by the Corporation, to supply materials to carry out of the works or any part of the works debiting the contractor with the cost of the labour and the price of the materials (as to the correctness of which cost and price the certificate of the Executive Engineer shall be final and conclusive against the contractor) and crediting him with value of the work done, in all respects in the same manner and at the same rates as if it had been carried out by the contractor under the terms of this contract and in that case the certificate of the Executive Engineer as to the value of the work done shall be final and conclusive against the contractor.

(c) To order that the work of the contractor be measured up and to take such part thereof, as shall be unexecuted, out of his heads and to give it to another contractor to complete, in which case, any expenses, which may be incurred in excess of the sum, which would have been paid to the original contractor, if the whole work had been executed by him as to the amount of which excess expenses the certificate in writing of the Engineer-in-charge shall be final, conclusive and shall be borne and shall be paid by the original contractors and shall be deducted from any money due to him by the Corporation under the contract or otherwise from his security deposit of the proceeds sale thereof or a sufficient part thereof.

In the event of the above courses being adopted by the Executive Engineer the contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials or entered into any engagements or made any advances on account of or with a view to the execution of the work or the performance of the contract. And in case the contract shall be rescind under the provision aforesaid, the contractor shall not be entitled to recover or be paid any sum for any works thereof actually performed by him under this contract unless and until the Executive

Engineer shall have certified in writing the performance of such works and the amount payable to him in respect thereof and he only be entitled to be paid the amount so certified.

5. Notice for unsatisfactory progress: If the progress or a particular portion of the work is unsatisfactory the Executive Engineer whose decision shall be final, shall notwithstanding that the general progress of work is satisfactory; be entitled to take action under Clause 4(c) after giving the contractor 10 days' notice in writing and the contractor will have no claim for compensation for any loss sustained by him owing to such actions.

6. Action in the case of Default by Contractor: If any case in which any of the powers conferred upon the Executive Engineer by Clauses 4 and 5 hereof, shall have exercised and the same shall not have been exercised, the non-exercised thereof shall not constitute a waiver of any of the conditions hereof and such powers shall notwithstanding be exercisable in any further case of default by the contractor for which, by any clauses hereof, he is declared liable to pay compensation amounting to the whole of his security deposit and liability of the contractor for past and future compensation shall remain unaffected in the event of the Ex. Engineer taking action under sub clause (a) or (c) of Clause 4 he may, if he so desires, take possessions of all or any tools, plants, materials, and stores in such upon the work or the site thereof belonging to the contractor, or procured by him and intended to be used for the execution of the work of any part thereof paying for allowing for the same in account at the contract rates, or in the case of a contract rates not being applicable to current market rates to be certified by the Executive Engineer whose certificate thereof shall be final. In the alternative, the Executive Engineer may by notice in writing to the contractor or his clerk of works, foremen or other authorized agent, require him to remove such tools, plants, materials or stores from the premises within a time to be specified in such requisition to decisions to the contractor failing to comply with any such requisition, the decision of the Executive Engineer as to the expenses of any such removal and the amount of the proceed and expense of any such sale, be final and conclusive against the contractor.

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 to 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 **If the sum that the Contractor is entitled to be paid plus the costs incurred by the Owner in completing the works, exceeds the Contract Price or the entire works if entire works have been completed or the price for port of the works if part of the works have been completed. the Contractor shall be liable for such excess.**

If such excess is greater than the sums due to the Contractor, the Contractor shall pay the balance to the Owner and if such excess is less than the sums due to the Contractor, Owner shall pay the balance to the Contractor. For facilitating such payment. Owner shall encase the Bank Guarantees of Contractor available with Owner/s and retain such other payments due to the Contractor under the Contract in question or any other Contract that the Owner/s may have with the Contractor. 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.

7. Extension of Time Limit: If the contractor shall desire an extension of the time limit for completion of the work on the ground of his having been unavoidably hindered in its execution or on any other ground, he shall apply in writing to the Executive Engineer and the Executive Engineer may, if in his opinion there are reasonable grounds for granting extension, recommend such extension as he may think necessary or proper. The decision of the competent authority in this regard shall be final and binding to the contractor. Any delay attributed to Corporation shall be compensated only by way of extending the limit.

8. Completion Certificate: On completion of the work the Contractor shall be furnished with Completion Certificate by the Executive Engineer of such completion but no such certificate shall be given nor shall be the work considered to be complete until works are taken over and/or duly tested and put to operative as

Signature of Contractor

the case may be, nor until the work shall have been measured by the Engineer-In-Charge or where the measurement have been taken by his subordinated until they have received the approval of the Executive Engineer the said measurement being binding and conclusive against the contractor.

9. Effect of the Certificate: No payment shall be made for any work estimated to cost less than Rs. 1,000/- till after the whole of said work shall have been completed and certificate of completion given. But in the case of works estimated to cost more than Rs. 1,000/- Contractor shall on submitting a monthly bill thereof, be entitled to receive payments. Proportionate to the part of the work then approved and passed by the Engineer-in-charge, whose certificate of such approval and a passing of the sum requiring bad, unsound, imperfect or unskillful work to be removed and taken away and reconstructed or rejected nor shall any such payment be considered as admission of the due performance of the contract or any part thereof in any respect of the accruing of the claim nor shall conclude, determine or effect in any way the powers of the Engineer-in-charge as to the final settlement and adjustment of the accounts otherwise or in any other way, vary or affect the contract. The final bill shall be submitted by the contractor within one month of the date fixed for completion of work. Otherwise the certificate of Engineer-in-charge of the measurement and of total amount payable for the work shall be final and binding on all parties.

10. Payment to Contractors: The rates for several items of works estimated to cost more than Rs. 1,000/- agreed to within shall be valid only when the item concerned is accepted, having been completed full, in accordance with the sanctioned specification. In case, where the items of the work, are not accepted, as so completed the Engineer-in-charge, may make payment on account of such items at such reduced rates, as he may consider reasonable in the preparation of final or running accounts bills.

11. Bills: The Bill shall be submitted by the contractor each month on or before the date fixed by the Engineer-in - charge, for all works, executed in the previous month and the Engineer-in-charge shall take or cause to be taken the requisite measurement for the purpose or having the same verified and the claim so far as it is admissible, shall be adjusted, if possible, within ten days from the presentation of the bills. If the contractor does not submit the bill, within the time fixed, as aforesaid, the Engineer-in-charge may depute a subordinate to measure up the said work in the presence of the contractor or his duly authorized agent, whose counter signature in the measurement shall be sufficient warrant and the Engineer-in-charge may prepare a bill from such list which shall be binding on the contractor in all respects. GETCO shall make effort for the payment of bills (RA & final bills) as early as possible, however no interest is payable on bill amount if there is delay in payment of GETCO for whatever reason.

The company has decided to make payment to suppliers/contractors through RTGS/NEFT by transfer of funds instead of cheques through regular courier service/RPAD the payment shall be released to your bank account through RTGS.

Therefore, the suppliers/contractors are requested to furnish the following details in original letter head with cancelled cheque.

1. Account Number
2. Type of account
3. Bank Name
4. Branch name & address
5. Contact no. of the branch
6. Email ID
7. One cancelled cheque
8. IFSC Code

12. Supply of Materials to Contractor: If the specification of the estimated work provides for use of any special description of material to be supplied from the Corporation's Stores or if it is required that the contractor shall use certain stores to be provided by the Engineer-in-charge (such material and stores and the prices to be charged thereof as here in after mentioned being so far as practicable for the convenience of contractor but not so as in any way to control, the meaning or effect of the contract specified in otherwise or from the security deposit or the proceeds of sale thereof if the deposit is held in Government Securities the same or a sufficient portion thereof, shall be sold for the purpose. All materials supplied to the contract shall remain the absolute property of Corporation and shall on no account be removed from the site of the work and shall at all-time be open to inspection by the used by him or for any wastage in or damage thereto. The contractor shall be responsible for the loss, destruction or deterioration of the materials, stores or articles supplied to him by the Corporation even if such loss, destruction or deterioration has occurred

Signature of Contractor

under any circumstances whatsoever beyond his control as if the materials, stores or articles so supplied were his property.

13. Works to be executed in accordance with specifications, drawings, orders etc.: The contractor shall execute in whole and every part of work in the most substantial and workmanlike manner and both as regarding materials and in every other respect in strict accordance with the specification. The Contractor also shall confirm exactly, fully and faithfully to the designs, drawings and instructions in writing relating to the work signed by the Engineer-in - charge and lodged in his office and to which the contractor shall be entitled to have access for the purpose of Inspection at such office, or in the site of the work, during office hours and the contractor shall, also if he so requires, be entitled at his own expenses to make or cause to be made copies of the specification, and of all such designs, drawings and instructions as aforesaid.

14. Alteration in Specifications and Designs not to invalidate Contracts.: The Executive Engineer shall have powers to make any alteration, or addition to the original specification designs, and instructions that may appear to him to be necessary or advisable during the progress of the work and the contractor shall be bound to carry out the work in accordance with any instructions in this connection which may be given to him in writing, signed by the Engineer-in-charge and such alterations shall not invalidate the contract. Any additional work which the contractor may be directed to do in the manner above specified as part of the work shall be carried out by the contractor on the same conditions in all respect on which he agreed to do the main works, and at the same rates as are specified in the tender for the main work. Where, however, the works is to be executed according to the designs, drawing and specifications recommended by the contractor and accepted by the competent authority, the alteration above referred to shall be within the scope of such designs, drawings, and specifications appended to the tender.

15. Rates for works not entered in Estimate or Schedule of Rate of the District: If the additional and altered work includes any class of work for which no rate is specified in this contract, then such class of work shall be carried out the rates entered in the Schedule of Rates of the Division or at the rate mutually agreed upon between the Executive Engineer and the contractor, whichever are lower. If the additional or altered work for which no rate is entered in the Schedule of Rates of the Division is ordered to be carried out before the rates agreed upon then the contractor within seven days of date of receipt by him of the order to carry out the work inform the Executive Engineer for the rate which in his intension to charge for such class of work and if the Executive Engineer does not agree to this rate he shall be noticed in writing be at liberty to cancel his order to carry out such class of work and arrange to carry it out in such manner as he may consider advisable provided always that if the rates shall have been determined as lastly here in before mentioned then in such case he shall only be entitled to be paid in respect of the work carried out or expenditure incurred by him prior to the date of the determination of the rate as aforesaid according to such rate or rates as shall be fixed by the Executive Engineer. In the event of dispute, the decision of the Superintending Engineer of the Circle will be final.

16. Extension of Time Limit in consequence of Addition or Alteration: The time limit for the work shall be extended in the proportion that the increase in its cost occasioned by alterations or additions bears to the cost of the original contract work and the certificate of the Engineer-in-charge as to such proportions shall be conclusive. No compensation shall be payable for Alternation in or Restriction of Work to be carried out. If at any time, after the execution of the contract documents the Engineer-in-charge shall, for any reason whatsoever, require the whole or any part of the work, as specified in the tender, to be stopped for any period or shall not require he whole or part of the work to be carried out at all or to be carried out by the contractor, he shall give notice in writing of the fact to the contractor who shall thereupon suspend or stop the work totally or partially as the case may be in any such case, except as provided here under the contractor shall have no claim to any payment or compensation what so ever on account of any profit or advantage which he might have derived from the execution, of the work in full but which he did not so derive in consequence of the full amount of work not having been carried out or on account of any loss that he may be put to on account of materials purchased or agree to be purchased or for unemployment of labour recruited by him. He shall not also have any; claim for compensation by reason of any alterations having been made in the original specification, drawings, designs and instructions which may involve any curtailment of the work as originally contemplated.

17. No claim to compensation on account of loss due to delay in supply of materials by Corporation. The contractor shall not be entitled to claim any compensation from Corporation for the

loss suffered by him on account of delay by Corporation in the supply of materials entered in Schedule-A where such delay is caused by: Difficulties relating to supply of railway wagons

I. Force Majeure

II. Act of God

III. Any other reasonable cause beyond the control of Corporation including Shortage of materials to be supplied by the Corporations & difficulties in time by reaching at the site of any materials equipment. In the case of such delay in the supply of materials, Corporation shall grant such extension of time for the completion of the works as shall appear to the Executive Engineer to be reasonable in accordance with circumstances of the case. The decision in the Executive Engineer as to the extension of time shall be accepted as final by the contractor.

18. Time Limit for Compensation Claims: Under no circumstances, whatsoever, shall the contractor be entitled to any compensation from Corporation on any account unless the contractor has claimed in writing to the Executive Engineer within one month of the cause thereof.

19. Action and Compensation payable in case of Bad Work: If at any time, before the security deposit is refunded to the contractor, it shall appear to the Executive Engineer or his subordinate in charge of the work that any work has been executed with unsound, imperfect or unskillful workmanship or with materials of inferior quality or that any materials or articles provided by him for the execution of the work are unsound or of a inferior quality to that contracted for or are otherwise not in accordance with the contract, it shall be lawful for Engineer-in-charge to intimate this fact in writing to the contractor and then notwithstanding the fact that the work, materials or articles complained of, may have been inadvertently passed, certified and paid for, the contractor shall be bound forthwith to rectify or remove and reconstruct the work so specified in whole or any part, as the case may require or if so required shall remove the materials or articles so specified and provided other suitable materials or articles at his own charge and cost, and in the event of his failing to do so within a period to be specified by the Engineer-in-charge in the written intimation aforesaid the contractor shall be liable to pay compensation at the rate of one percent on the amount of the estimate for every day, not exceeding ten days during which the failure so continue and in the event of any such failure as aforesaid the Engineer-in-charge may rectify or remove and re-execute the work or remove and replace the materials or articles complained of, as the case may be, at the risk and expense in all respects of contractor should the Engineer-in-charge consider that any such inferior work or materials as described above may be accepted, or made use of, it shall be within his discretion to accept the same as such reduced rates as he may fix thereof. Provided that in the case of any work of which visible check is not possible, if the Engineer-in - charge or his subordinate in charge of the work feels that such work has been executed with unsound, imperfect or unskillful workmanship or with materials of inferior quality, he shall take sample tests at random, cost of which shall have to be borne by the contractor and if after taking such test, part of such work is found to be defective in any respect or to have been executed with materials of inferior quality, then the contractor shall be paid for the whole work such amount as may be fixed by the office of the Engineer-in-charge on the basis of the lowest quality of work found by him in such samples tests.

Explanation: I

Sample Test shall mean:

(i) In relation to poles fixed as line supports, the token of one pole out of every 100 poles after taking it out from its foundation for inspection.

(ii) In relation to any other work, such test as may be considered necessary, by the Engineer-in - charge or his subordinate in charge of the work.

Explanation: II

Cost of the sample test shall mean cost incurred for the purpose of taking Samples & test and for restoring tested work to its original condition.

20. Work to be opened to Inspection, Contractor or Responsible Agent to be present: All works under execution or in course of execution in pursuance of the contract shall at all times be open to the inspection and supervision of the Executive Engineer and his subordinate and contractor shall at all times, during the usual working hours and at all other times at which reasonable notice of the intension of the Executive Engineer or his subordinates to visit the works shall have been given to the contractor, during which period either he should be present to receive order and instruction, or have a responsible agent duly accredited in writing, present for that purpose. Orders given to the contractor's duly authorized Agent shall be considered to have the same force and effect as if they had been given to the contractor himself.

21. Notice to be given before work is covered up.: The contractor shall give not less than 5 days' notice in writing to the Executive Engineer or his subordinates in charge of the work, before covering up or otherwise placing beyond the reach of measurement of any work, in order that the same may be measured and correct dimensions thereof, taken before the same is so covered up or placed beyond the reach of measurement and shall not covered up or placed beyond the reach of measurement and work without the consent in writing of Executive Engineer or his subordinate in charge of work, If any work shall be covered up or placed beyond the reach without such notice having been given or consent obtained, the same shall be uncovered at the contractor's expense, and in default thereof, no payment or allowance shall be made for such work, or for the materials, with which the same, was executed.

22. Contractor's Liabilities: The Contractor shall supply, at his own cost, all materials (except such special materials, if any as may be supplied from the Corporation stored in accordance with the contract) plant, tools, appliances, implements, ladders, cordage, tackles, scaffolding and any temporary works which may be required for the proper execution of the work., in the original, altered or substituted form and whether included in the specification or other document forming part of the contract or referred to in these conditions or not and which may be necessary for the purpose of satisfying or complying with the requirements of the Engineer-in-charge as to any matter on which under these conditions, he is entitled to be satisfied or which he is entitled to require together with carriage thereof to and from the work, the contractor shall also supply without charge, the requisite number of persons for setting out works, and counting, weighting and assisting in the measurement of, examinations at the time and from time to time of the work or materials, failing this, the same may be provided by the Engineer-in-charge at the expenses of the contractor and the expenses may be deducted from any money due to the contractor under the contract or from his security deposit or the proceeds of sale thereof or of a sufficient portion thereof the contractor shall provide all necessary fencing and light required to protect the public from accident and shall also be bound to bear expenses of defense of every suit, action or other legal proceedings of law that may be brought by any person for injury sustained. Owing to neglect of the above precautions and to pay any damage and costs which may be awarded in any such suit, action or proceedings to any such persons or which may with the consent of the contractor be paid in compromising any claim by any such person.

23. Contractor Liable for all Damages:: Compensation for all damage done intentionally or unintentionally by contractor's laborer, whether in or beyond the limit of Corporation's property, shall be estimated by the Executive Engineer, or such other office, as he may appoint and the estimate of the Executive Engineer, subject to the decision of the Superintending Engineer, on appeal, shall be final and the contractor shall be bound to pay the amount of the assessed compensation demand, failing which, the same will be recovered from the contractor as damages or deducted by the Engineer in charge from any sums that may be due to or become due from Corporation to the contractor under this contract or otherwise. The contractor shall bear the expenses of defending any action or other legal proceedings that may be brought by any person for injury sustained by him owing to neglect of precautions to prevent the spread of fire and he shall also pay any damage and costs that may be awarded by the court if in consequence.

24. Rescission of Contract and Forfeiture of Deposit: The contractor shall not assign or sublet, without the written approval of the Engineer-in-charge and if the contractor assign or sublet his contract, or attempt to do so or become insolvent or commence any proceedings to be adjudicated as insolvent or make any composition with creditors, attempt to do so, the Engineer-in-charge may, by notice in writing rescind the contract. Also, if any bribe, gratuity, gift, loan, perquisite, reward or advantage pecuniary or otherwise shall either directly or indirectly be given, promised or offered by the contractor or any of his servants, or agents, or any person to the employee of Corporation in any way relating to his office or employment or if any such officers or persons shall become in any way directly or indirectly interested in the contract, the Executive Engineer may, by 10 days' notice in writing, rescind the contract. In the event of a contract being rescinded the Security Deposit of the contractor shall there upon stand forfeited and be absolutely at the disposal of Corporation and the same consequences shall ensure as it the contract has been rescinded under clause 4 thereof and in addition the contractor shall not be entitled to recover or be paid for any work thereof actually performed under the contract.

25. Compensation: All sums payable by a contractor by way of compensation under any of these conditions shall be considered as a reasonable compensation to be applied to the use of Corporation,

without reference to the actual loss or damage sustained and whether any damage has not been sustained.

26. Change in the constitution of firm to be notified: In the case of tender by partners of a firm, any change in the constitution of firm shall be forthwith notified by the contractor to the Executive Engineer for his information.

27. Works under direction of Superintending Engineer: All works to be executed under the contract shall be executed under the direction and subject to the approval of the Superintending Engineer of the Circle, Engineer-in-charge for the time being who shall be entitled to direct at what point or points and in what manner they are to be commenced and from time to time carried on.

28. Decision of Superintending Engineer to be final: Except where otherwise specified in contract and subject to the power delegated to him by Corporation under the Corporation's rule, then in force the decision of the Superintending Engineer of the Circle / EIC. for the time being shall be final, conclusive and binding on all of the specification, designs, drawings and instructions herein before mentioned and as to the quality of workmanship or material used on the or as to any other question, claim, right matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning, the works or the execution or failure to execute the same, whether arising during the progress of the work or after the completion or abandonment thereof.

29. Arbitration: 'ALL QUESTIONS, DISPUTES OR DIFFERENCES, WHATSOEVER WHICH MAY AT AN TIME ARISE BETWEEN THE PARTIES TO THIS CONTRACT IN CONNECTION WITH THE CONTRACT OR ANY MATTER ARISING OUT OF OR IN RELATION THERE TO, SHALL BE REFERRED TO THE "GUJARAT PUBLIC WORKS CONTRACTS DISPUTES ARBITRATION TRIBUNAL" AS PER THE PROVISIONS OF THE GUJARAT PUBLIC WORKS CONTRACTS DISPUTES ARBITRATION TRIBUNAL ACT, 1992.

The reference to arbitration proceedings under this clause shall not:

- a) Affect the right of the Engineer-in-charge to take possession of all or any tools, plants, materials and stores, in or upon the work or site thereof or belonging to the contractor or procured by him and intended to be used for the execution of the work or any part thereof.
- b) Preclude the Engineer-in-charge from utilizing the materials purchased by the Contractor in any work or from removing such materials to other place, during the period the work is stopped or suspended in pursuance of notice given to the contractor under General Conditions.
- c) Entitle the contractor to stop the progress of the work or carrying out the additional or altered work in accordance with the provision of General Conditions for the work where there is no specification.
- d) Preclude the Corporation from getting the work done by another agency.

Neither party is entitled to bring a claim to arbitration latest by the thirty days after the expiration of the defects liability period.

The provisions of the Arbitration & conciliation Act, 1996, Gujarat Public Works Contract Disputes Arbitration Tribunal Act, 1992 and rules made there under shall apply to the arbitration proceeding under this clause.

30. Stores to be obtained from Corporation: The Contractor shall obtain from the Corporation Stores, such articles as are mentioned in Schedule 'A' which may be required for the work or any part of the work or in making up any articles required therefore or in connection therewith, unless he has obtained permission in writing from the Executive Engineer or obtained such stores and articles from elsewhere. The value of such stores and articles as may be supplied to the contractor by the Engineer-in-charge will be debited to the contractor in his account at the rate shown in the Schedule "A" attached the contractor and if they are not entered in said schedule they shall debited to him at cost price which for the purpose of this contract shall include cost of carriage and all other expenses whatsoever which may have to be incurred in obtaining delivery of the same at the stores aforesaid and further overhead charges 15%. The Contractor shall be responsible for the loss destruction or deterioration of the materials, stores or articles supplied to him by the Corporation, even if such loss destruction or deterioration has occurred under any circumstances whatsoever beyond his control as if the material, stores or articles so supplied were his property. The contractor shall be responsible for returning the residual materials after completion of the contract and if fails to return, the balance material supplied to him by the Corporation, the cost of the residual materials will be recovered from the contractor at the market rate or stock issue rate whichever be higher at the time of materials account plus 15%.

31.1 Lump Sum in Estimate: When the estimate on which tender is made, includes lump sums in respect of parts of the works the contractor shall be entitled to payment in respect of the items of works involved or the part of the work in question at the same rates as are payable under this contract or such items or if the part of work in question is not in the opinion of the Engineer-in-charge capable to measurement the Engineer-in-charge may at his discretion pay the lump sum amount entered in the estimate and the certificate in writing of the Engineer shall be final and conclusive against the contractor with regard to any sum or sums payable to him under the provisions of the clause.

32. Lump Sum Tenders: Whenever lump sum tenders have been invited for building or other structures of the same type, design, the contractor shall submit his bill stated in Clause No.11 and the Engineer-in-charge not below the rank of Executive Engineer shall certify by general measurement or by other method considered suitable to him, the value of work done and the contractor shall be paid monthly a sum equal to 90% of the total value the work so certified, since the last payment, after deducting a part or whole of the secured advance if not already paid for the materials utilized on the works. An additional secured advance for any fresh materials brought on site will also be paid if certified by the officer not below the rank of Executive Engineer. After the work is completed final bill would be paid on the certification of officer not below the rank of Executive Engineer, that the work is done according to drawing and specifications attached to the tender. If any additions and alteration have been carried out, detailed measurements in respect thereof shall be recorded and extra payment or deductions are regulated as per item rates quoted by the contractor while submitting the tender and if there are any items in the additions and alterations for which the contractor has not quoted a rate, the payment shall be as per Clause 15 above.

33. Action where no specifications: In the case of any class of work for which there is no such specifications as is mentioned in clause 1. such work shall be carried out in accordance with the divisional specifications and in the event of there being no divisional specifications, the work shall be carried out in all respects in accordance with the instructions and requirements of the Engineer-in-charge / consultant of the Corporation etc.

34. Industrial Labour Laws

1. Wages to be paid and time of payment etc. by the Contractor: -

- a) The contractor shall pay minimum wages as fixed under Minimum Wages Act whichever is higher. The wages of every contract labour employed by him under this contract shall be paid by him before the expiry of 7th day of the last day of the month in respect of which the wages are payable (i.e. wages of a month have to be paid by him in the first week of the next month). The payment shall be disbursed in presence of Management Representative during the working hours in factory premises and the contractor shall get the entries certified in the register of wages by the Representative of the Corporation. Any default will result in cancellation of contract forthwith or else the contractor shall be punishable to the extent of Rs.100/- fine per each day.
- b) The contractor shall give his telephone number and address to the Corporation so that in case of labour trouble etc., the contractor can be contacted. The contractor shall arrange to have his office outside the factory premises and the contractor keep himself present throughout the working hours.

Labour Laws: -

- a) Persons below the age of 18 years shall not be employed for the work.
- b) No female worker shall be employed in the night shift between 7.00 p.m. to 6.00 a.m.
- c) Contractor shall maintain a valid labour license under the Contract Labour (Regulation and Abolition Act) for employing necessary manpower to be required by him. In the absence of such license the contractor shall be liable to be terminated without assigning any reason thereof.
- d) The contractor shall at his own expense comply with all labour laws and keep the Corporation indemnified in respect thereof. Some of the major liabilities under various labour and industrial laws which the contractor shall comply with areas under:
 - i. Payment of contribution of wages of employer's contributions towards Provident Fund, Family Pension Scheme, Deposit Linked Insurance Scheme, Administrative Charges etc. at the rates made applicable from time to time by Government of Gujarat / Government of India or other Statutory Authorities.
 - ii. Payment of deposit in respect of each contract labour of the rate of RS.30/- with the office of the Commissioner of Labour as per the Contract Labour Act (Regulation & Abolition).
 - iii. License Fee as prescribed under the contract Labour Act (Regulation and Abolition) and Rules framed there under depending upon the number of workmen employed by the contractor.
 - 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.

Signature of Contractor

- v. Identity cards as prescribed under the factories Act with photo affixed thereto, the same for identification.
- vi. Payment of retrenchment compensation, notice pay and other liabilities as per Industrial Disputes Act. Any payment to the contractor's employees arising out of any claim of disputes under the Industrial Disputes Act – 1947 or any other laws.
- vii. Provision of compensation in the case of accidental injury.
- viii. Payment of crèche if the female labour employed is more than 30 numbers
- ix. Maternity leave as per the provision 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 Labour Laws in force from time to time from Statutory Authorities like State Government / Government of India which the contractor shall have to comply with.

2. Provident Fund and Family Pension Scheme: The contractor shall submit along with his bill (month wise) a statement regarding deductions against employee's provident fund and family pension scheme in respect of each concerned employees' Provident Fund and Family Pension scheme at the rate of 12 % (or at the rates made applicable by the Government from time to time) of the wages. Contractor's contribution and his worker's contribution towards provident fund and family pension scheme shall be deposited by the contractor with regional Provident Fund Commissioner, Ahmedabad.

3. 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 Fund Commissioner, Ahmedabad.

4. 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.

5. Paid Leave Facility: -Paid leave facility at the rate of one day for every 20 days worked by the contract laborer shall be provided by the contractor to his workers. He shall maintain Leave records/ Leave Cards for individual laborer which shall be duly verified and approved/ certified by the authorized officer of the Corporation.

6. Workmen's Compensation Fund and Employers Liability Insurance: -The contractor shall cover all his employees under Workmen's Compensation Fund and under the Liability Insurance. The contractor shall employ adequate number of experienced staff 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.

7. Contractor to Indemnify to the Corporation:-The contractor shall indemnify and keep indemnified the Corporation and every officer and employees of the Corporation and 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 in above clauses and elsewhere and against all actions, proceedings, claims, demands, costs and expenses which may be made against the Corporation by any workman/ employee of the contractor or any sub-contractor and / or from any liability may arise to any workman / employees of the contractor or any sub-contractor under any laws, rules or regulation having the force of law including but not limited to claims against the owner under workman's compensation Act, 1923. The employee's Provident Act 1952, and / or the contract Labour (Abolition and Regulation) Act 1979. The Corporation shall not be liable for or in respect of or in consequence of any accident or injury to any workmen or other person in the employment of the contractor or his sub-contractors, and the contractor shall indemnify and keep indemnified the Corporation against all such damage and compensation and against all claims, demands, proceedings costs, charges and expenses whatsoever in respect thereof or in relation thereto.

8. Workmen's Compensation and Employer's Liability Insurance: -

Insurance shall be affected for all the contractor's for all the contractor's employees engaged in the performance of this contract. If any of the work is sublet to the sub-contractor, the contractor shall require that he or his sub-contractor to provide workmen's compensation and employer's liability insurance for the latter's employees unless such employees recovered under the contractor's insurance.

9. The Corporation reserves the right to terminate this rate contract at any time during its tendency without giving notice of termination or any reasons thereof.
10. The Corporation will be entitled to deduct directly from the bills, to be paid to the Subcontractor and Labourers any sum or sums payable by contractor and which sum/sums the Corporation is required to pay as a principal employer on account of contractor's default in respect of all liabilities referred to in above clauses.
11. Nothing in the contract document stated shall in any wise constitute any workmen/ employees of the contractor or any sub-contractor as or to be workmen/employee of the power, or place obligation or liability in respect of any such workmen/ employee upon the Corporation.
NOTE: -The Prevailing Act at the time of execution of work over and above act specified herein shall be binding to the contractor

35. No Claim for Variation in Quantities of Work: Quantities shown in the tender are approximate and no claim shall be entertained for quantities of work actually executed, being either more or less up to any extent than those entered in the tender or less than those entered in the tender or estimate.

36. No Claim for Compensation for Delay in starting work: No compensation shall be allowed for any delay caused into starting of work on account of acquisition of land and in the case of clearance for works or any delay in according sanction to estimates.

37. No Claim for Compensation for delay in execution of work: No compensation shall be allowed for any delay, in execution of the work on account of water standing in borrow pits or compartment. The rates are inclusive for hard or cracked soil, excavation in mud, sub-soil water or water standing in borrow pit and no claim for an extra rate shall be entertained unless otherwise expressly specified & mentioned in the tender.

38. Entering upon or commencing any portion of work: The contractor shall not enter upon or commence any portion of work except with the written authority or instructions of the Executive Engineer or his subordinate in charge of the work, failing such the contractor shall have no claim to ask for measurement or payment for work.

39. Method of Payment: Payment to contractors shall be made by A/c payee Cheque provided the amount exceeds Rs.50/-. Amount not exceeding Rs.50/- will be paid in cash. Generally, payment may take 30 to 60 days after passing of bills depending on availability of fund.

40. Acceptance of conditions on tendering for work: Submission to tender or acceptance of work order shall imply acceptance of these conditions of tender by contractor.

41. Employment of Scarcity Labour: If government declares a state of scarcity or famine to exist in any village situated within 20kms of the work, the piece worker / contractor shall employ upon such part of the work as are suitable for unskilled labour; any person certified to him by the Executive Engineer or by any person to whom Executive Engineer may have delegated this duty in writing to be in need of relief and shall be bound to pay such person wage not below the minimum, which Government may have fixed in this behalf from time to time. Any implementation of this clause shall be decided by the Superintending engineer / Engineer-in-Charge whose decision shall be final and binding on the piece worker/contractor.

42. Employment of Technical Persons: The contractor who are registered under class 'A', 'B' and 'C' or such contractors who executes the works of Rs.5 lakhs and above shall employ the technically qualified personnel possessing minimum a Diploma of reconciled Technical institution, for executing the work of the Corporation.

Date:
(Signature of Contractor)
Address:
Seal:

Superintending Engineer (AM)
AM Circle, Anjar

(D) GENERAL CONDITIONS OF CONTRACT

- 1. Contactor to inform himself fully:** The contractor shall be deemed to have carefully examined the work & site conditions, the general conditions, the special conditions, specifications, schedules, drawings shall be deemed to have visited the site of the works & to have fully informed himself regarding the local conditions. Copy of Appendix V attached with tender shall have to be filled up before quoting the rate, for confirmation of site visit. If there shall have any doubts as to the meaning of any portion of these general conditions or special conditions of the scope of work of the specifications or any other matter concerning the contract, he shall in good time before submitting his tender, send for the particulars thereof & submit them to the Engineer in writing in order that such doubt may be removed.
- 2. Data to be furnished by Contractor:** Prior to the commencement of work the contractor shall submit a bar chart showing detailed program for completing the work within time limit to the S. E. for approval within a week of the date of LOI. No change in the approved plan & layout shall be carried out without specific written approval of the Executive Engineer in charge.
- 3. Errors, Omissions & Discrepancies:** In all cases of errors, omissions, doubts or discrepancies in the dimensions, or discrepancies in the drawings & items of work on specifications, reference shall be made to the Executive Engineer whose elucidation & elaboration shall be considered as authoritative. The contractor shall be held responsible for any error that may occur in the work thorough lack of such reference.
- 4.**
 1. Temporary structures may be erected by the contractor for storage sheds, offices, and residential etc. for non-commercial use on land, handed over to him at his own expense & with the permission of the Corporation. In any circumstances for constructing temporary structures contractor's use, Corporation free supply of materials shall not be made. If it is found that Corporation's free supply material are used for the works other than approved drawings, it will be recovered at penalized rate.
 2. The contractor shall preserve all existing vegetation such as trees on or adjacent, to the works site which, do not interfere with the construction as determined by the Corporation.
 3. The contractor shall take all possible precautions in felling trees authorized for removal to avoid any unnecessary damage to vegetation & trees not to be felled & to structures or to workmen, & shall be responsible for any damage if it occurs in such operations.
 4. All produce from cutting of trees grass etc. shall be the property of Corporation & shall be stacked at the directed places. No claim shall be made for such tree felling / cutting & stacking of trees/produce or grass etc. by the contractor.
 5. The land shall as herein before mentioned be handed over to Corporation / Owner of Land immediately after the completion of the work under this contract. Also no land shall be held by the contractor longer than the Corporation shall deem fit & necessary & the contractor shall, on due notice by the Corporation, vacate & return the land which the Engineer in Charge may certify as no longer required by the contractor for purposes of the work.
- 5. Start of Work:** The contractor shall not enter upon or commence any portion of the work except with the written permission of the authority of the Corporation, failing which the contractor shall have no claim to ask for measurement of or payment for work & shall be responsible for any claims or damages that may arise due to such unauthorized commencement or entry. No compensation shall be allowed for any delay caused in starting the work on account of any delay in clearance of the work site
- 6. Work to execute to the satisfaction of the Corporation's Engineers:** The contractor shall proceed with the work with diligence & expedition & the whole of the work herein specified as well as the mode of execution shall be under the supervision & the direction & shall be carried on to the entire satisfaction of the Corporation's site Engineers, who shall have full powers to order the contractor to alter, enlarge or diminish the form, dimensions, positions, or quantities of any of the work or to make use of materials & workmanship of different descriptions & qualities from this herein specified. In the case of any class of work for which there are no Technical Specifications, these shall be carried out in accordance with the latest IS Codes & in the event of being no relevant IS Code, the works shall be carried out in accordance with the directions & instructions of the Corporation's Engineers at site.
- 7. Workmanship etc.:** The work shall be executed in thoroughly substantial manner with workmanship of best quality & strictly in accordance with the specifications & with the drawings, or with such other drawings or written instructions as may from time to time be furnished to the contractor, in accordance

with terms of this contract & shall be completed in every respect with workmanship implied & necessary according to the fair interpretation & meaning of the same & should there be any discrepancy between the drawings & specifications or any difference or dispute as to the dimensions to be worked out or the mode of doing periodical quantity of the work to be executed or with respect to any subject arising out of this contract, the decision of the Corporation's authorized Engineers shall be final & binding on all parties.

8. **Samples of descriptive Data:** Samples of descriptive data requiring approval shall be submitted by the Contractor to the Corporation's Engineers in good time before the use of such material to permit its inspection & testing & there-by the approval. The samples shall be properly marked to show the name of material, manufacture place or origin & the place where it is intended to be used etc. Failure of any samples to pass specified tests requirements. It shall be sufficient cause for the refusal to consider any further samples from that source.
9. **Baselines & Grades:** The Corporation near to the site of work shall furnish one permanent Bench Mark. Semi-permanent baselines & cross lines shall be established at sufficiently spaced intervals with benchmarks by the Contractor at his own cost & risk. The contractor shall provide at his expense, all the required pillars, equipment's, materials, & labor for the establishment of the grade lines & bench marks, for that the Contractor shall be responsible for their further maintenance during the execution of the actual work till the complete period of construction. The contractor shall be responsible for the proper execution of work to such lines & levels & grades as may be specified in the drawings, established, or indicated by the Corporation's Engineers. All the survey work, if required, shall be checked by the Corporation's engineers. However, this shall not absolve the contractor for the correctness of survey/ temporary or permanent Benchmarks.
10. **Contractor not to dispose of soil etc.:** The contractor shall not sell or otherwise dispose of or remove except for the purpose of this contract the sand, ballast, earth, rock or other substances or materials that may be obtained from any execution made for the purpose of this contract or produce upon the site at the time of delivery of the possession of the land but also such substances materials & produce shall be the property of the Corporation & shall be disposed of in the manner & place as directed by the Corporation's Engineers.
11. **Gold, silver, Minerals, Oil Relics, etc. found on the Site:** All gold silver, oil relics, or other minerals, of any description & all precious stones, coins, treasures relic, antiquities, & other similar things that shall be found in or upon the site shall be the property of the Corporation. The contractor shall return the gathered things as above to the authorized representative of the Corporation.
12. **Fencing, lighting & ventilation:** The contractor shall be responsible for the proper lighting, fencing, guarding & taking of all the necessary safety measures for all works comprised in the contract & or the proper provision of temporary roadways, footways, guards fences, caution notices etc. as far as the same may be rendered necessary by reasons for the work for the accommodation & protection of workmen foot passenger or other traffic & of the Corporation & occupiers of adjacent villages, property of the public & shall remain responsible for any accidents that may occur on account of his failure & timely precautions. All the works & approaches shall be adequately illuminated with electric lights to the satisfaction of the Corporation's Engineers. The power & lighting connections, wiring equipment shall be subject to the inspection & passing by Electrical Inspector to GOG authorized under the Indian Electricity Act. Any additions alterations or omissions shall be got approved from the Corporation's Engineers got certified from the Electrical Inspector. Work spots such as faces of excavation of borrow pits; filling area etc. shall be adequately illuminated with floodlights to the satisfaction of the Corporation's Engineers.
13. **Explosive procurement & storage:** Explosives, petrol, oils, fuels, & other inflammable materials shall be stored strictly in accordance with the rules of the Explosive Department. The contractor shall at his own expense construct & maintain proper magazines which are required for the storage of explosive & arrange for storage facilities for oils, petrol, fuels etc. for use in connection with the work. The contractor shall at his own cost obtain the necessary license for the storage & use of explosives, oils, petrol, diesel etc. The Corporation shall not take any responsibility whatsoever in connection with the storage or use of explosives on the site, any accident occurs in the connection at site or nearby village or vicinity. All operations of the contractor in which or for which explosives are employed shall be at the risk of the contractor & upon his own responsibility.

14. Liability for accidents to persons:

1. The contractor or subcontractor shall indemnify the Corporation against any claims which may be made under the workman's compensation Act, 1923, or any statutory modification or otherwise for or in respect of any damages or compensation payable in consequence of any accident or injury caused, by fault of contractor or subcontractor & sustained by any workmen or other person on the employment of the contractor or subcontractor. In every case in which by virtue of the provisions of subsection (1) of section 12 of the workman's Compensation Act, 1923, the Corporation is obliged to pay compensation to a workman employed by the contractor or subcontractor in execution of the work, the Corporation will recover from the contractor the amount of compensation so paid, and without prejudice to the rights of the Corporation under subsection 12 of the said Act, such amount will be paid back to the Corporation in 30 days, failing which the Corporation will be at liberty to recover such amount of any part thereof by deducting it from the dues by the Corporation to the contractor under this contract or otherwise. The Corporation shall not be bound to contract any claim made against either of them under section 12, subsection (1) of the said Act, except on written request from the contractor & upon his giving to the Corporation full security for all costs for which the Corporation might become liable in consequence for entertaining such claims.
2. The contractor and/or subcontractor named in the contract shall indemnify the Corporation against all claims based upon injury or death to any person in the employment of the contractor or subcontractor, or to the third parties under paragraph (a) 2 or condition no.47 to the extent of any sums recovered under the insurance policy.
3. On occurrence of the accident which result on the death of workman employed by the contractor or subcontractor, which is so serious as to be likely to result in the death of any workman, the contractor shall within 24 hours of happening of such event intimate in writing to the Engineers of the Corporation the fact of such accidents. The contractor or subcontractor shall indemnify the Corporation against all loss or damage sustained, by the Corporation resulting directly or indirectly from his failure to give intimation in the manner aforesaid including penalties or fine if any, payable by Corporation as a consequence of Corporation's failure, to give notice under workman's compensation Act or otherwise to confirm to the provisions of the said Act in regard to such accident.

15. Liability for damage to works & materials:

1. The contractor shall during, the progress of the work, properly protect the works & the existing Ash Disposal pipelines & materials placed at his disposal or acquired for him by the Corporation, & shall remain answerable & liable for all accidents, damages. Loss etc. & shall be made good in the most complete & substantial manner by & at the sole cost of the contractor & to the reasonable satisfaction of the Corporation's Engineers. If the contractor fails to make good such losses, damages within the specified time given by the Corporation, the Corporation shall be at liberty to recover the amount towards such expenses fixed by the Corporation's Engineers & shall be recovered from the amount due under this contract to the contractor.
2. Further the contractor shall, at all times, protect & preserve all materials, machinery, equipment's, Ash Disposal pipelines, allied structures such as spillway chambers, ADP, haul road and ramps etc., materials & so acquired by himself or Corporation for the execution of the work. All reasonable requests of the Corporation's Engineers to enclose or especially protect any of the above shall be expeditiously complied with at no extra cost.
3. If the Engineer considers that the work, asked for in the aforesaid Para, is not sufficiently & satisfactorily protected by the contractor, on requests made for, the Corporation shall be entitled to arrange for such protection at his unfettered discretion & recover the cost thereof from the contractor.
4. Until the work shall be or deemed to be taken, over as aforesaid, the contractor shall also be liable for & shall be deemed to have indemnified the Corporation in respect of all damage or injury to any person or any property of the Corporation or of others in villages nearby, occasioned by the negligence of the contractor or his workmen, or his subcontractor, or by defective /ill methods of working.
5. Materials, tools, machinery brought on the site of work: All materials, tools & tackles, machinery etc. of the contractor brought to & delivered upon the site for the work shall be the time of their being so brought shall be deemed to be the property of the Corporation in its possession to be used for the purpose of the work & for that purpose only & shall not on any account be removed or taken away by the contractor or any other person without the permission of the Corporation's Engineers in charge, but the contractor shall be fully responsible for & loss, destruction thereof or damage thereto.

The Corporation may have a lien on such materials, tools, tackles, machinery for any sum or sums which may at any time prior to the completion of the works be or owing to the Corporation by the contractor, under in respect of & dispose of any such materials, tools. Tackles, machinery in such a manner as the Corporation may think fit & to apply the proceeds in or towards the satisfaction of such sum or sums due or owing as aforesaid but subject to such lien & power of sale & disposal such surplus materials, tools, tackles, machinery shall belong to the contractor & may be removed & disposed of by him as he may think fit.

16. Access to site & work on site: The Engineer or his authorized representative may if he considers fit from time to time enter upon any lands which may be in the possession of the contractor under this contract, for the purpose of executing any work not included in this contract & may execute by other contractors at his opinion & the contractor shall in accordance with the requirements of the Engineer, afford all reasonable facilities for execution of the works including occupation of lands by structure or otherwise for any other contractor employed by the Corporation & his workmen or for the execution on or near site of the works not included in the contract. The contractor shall not be entitled for any extra claims on such executions.

17. Inspection of Works: The Corporation's Engineers or their authorized representatives shall have at all times power to inspect the works, wherever in progress, either on site, on the contractor's premises in connection with this contract. Further, the contractor shall not allow any person other than Corporation's Engineers or their authorized representatives to the work sites. The contractor shall, during working hours, maintain supervisors of sufficient training & experience to supervise the work as a whole. All orders & directions given to such supervisors or other staff shall be deemed to have been given to the contractor. Further the Corporation may be due notice, desire a high ranking member of the supervisor staff of the contractor to be present on any specified inspection & the contractor shall comply with such directions.

18. Action & compensation payable in case of Bad Work: If at any time before the refund of Security Deposit to the Contractor it appears to Gujarat Energy Transmission Corporation's Executive Engineers or subordinate and / or any authorized officer of the Corporation that the work has been executed with unsound, imperfect or unskilled workmanship or with materials of inferior quality or any materials or articles provided by him are unsound or of quality inferior to that contracted as specified in the Technical Specifications or otherwise not in accordance with the contract, it shall be lawful for the Gujarat Electricity Corporation to intimate that the works, materials, articles which may have been inadvertently passed, certified & paid to the Contractor. The Contractor shall be bound to rectify or remove & reconstruct the said work so specified at his own charge & cost & in the event of being failure to do so within specified period by the Corporation, the Contractor shall be liable to pay compensation at the rate of 1% per day on the amount of the estimate for the specified work. For the period up to 10 days this shall be attended by the Contractor else the Corporation shall get these rectifications at the risk & expense in all respects of the Contractor.

19. Cleaning up:

1. The contractor shall at all-time keep the construction areas & his labour colony & storage areas free from accumulation of waste, or rejected materials.
2. Prior to the completion of the work the contractor shall remove all rubbish from & about the premises, & tools, tackles, machinery, left out materials consumable, rejected materials, scaffolding etc. which are not the part of the permanent work/structure. The premises will be left fully satisfactorily to the Corporation's Engineers/representatives; thereafter only the completion certificate will be issued.

20. Contractor's inventory of equipment's & machinery: The contractor shall prepare & maintain an inventory of all machinery, equipment's, temporary rolling stock, and plant purchased or hired for the use of this contract's execution.

1. **Progress Schedule:** Contractor shall furnish a Construction Schedule on receipt of LOI or Work Order whichever is earlier, in quadruplicate, indicating the date of start, the monthly progress expected to be achieved & anticipated completion of each major items of the work under this contract & procurement of equipment's, machinery & other materials. The schedule should be such as is practicable of achievement the whole work in the time limit & of the particular items on due date specified in the contract & shall have the approval of the Corporation's Engineers. Detailed schedules for each working season showing the progress month by month to be achieved is to be submitted to the Corporation.

The Corporation is empowered to ask for more detailed progress schedule week by week for any item or for all items & the contractor shall comply when asked for.

2. The Corporation shall have, at all times the right without in any way violating this contract, or forming grounds for claim to alter the order of the works or any part thereof & the contractor shall after receiving such direction proceed in the order directed. The contractor shall revise the progress schedule accordingly & submit to the Corporation in four copies.
3. The contractor shall furnish sufficient machinery, equipment, labourers & materials shall work for such hours & shifts as may be necessary to maintain/achieve the progress of the scheduled, after getting written permission of Engineer in Charge.
4. The progress schedules shall be in the form of bar charts, statements &/or reports as may be necessary & directed by the Corporation's representatives.
5. Unsatisfactory Progress: In the case of unsatisfactory progress by the contractor not proceeding as per the Scheduled Program approved by the Corporation, suitable actions shall be taken in accordance with Clauses No. 3 & 4 of the booklet prescribed by the Corporation for "Tender & Contract for Works".
6. Recoveries:
 - i. Recoveries due from the contractor, up to the end of the month previous to the one in which the bill is prepared shall be made from bills approved for payment every month or at other periods when the bills are prepared, for the enlisted, but not limited to, in the order of priorities & extents.
 - ii. (b) Penalty, if Levi able,
 - iii. Expenditure, in full, incurred by the Corporation on contractor's behalf in labour, machinery, equipment etc.,
 1. Charges for services such as water & power supply, etc. in full,
 2. Hire charges for Corporation's or Government machinery if any,
 3. Other recoveries not specifically mentioned but recoverable.

21. Date of completion: The contractor shall complete the whole work & hand over to the Corporation on or before the date specified in the work order. Provided always that if in the opinion of the Corporation the completion of the works shall be delayed by any change of original design or by the order of the Corporation, of any altered, modified substituted or additional works or materials omitted or by strikes, lock outs or stoppages of labour, or revolution, riots, civil or political disturbance or by the contractor not being given possession of the site or by the Corporation taking possession of & using the site or part thereof or the works or part thereof or any part of the work or delayed supply of material by the Corporation or by the not receiving any orders, drawings, instructions or directions in time or by the suspensions if the works or by fire, flood exceptionally bad weather tempest , storm or by from unforeseen circumstances(& whether the same shall be due to any act or omission of the Corporation or it's representatives) the Corporation may in the unfettered discretion thinks fit either forthwith or at a later time & from time to time notwithstanding that the prescribed or extended time for completion has expired or work have been completed, extend the date for the completion of the works to such a date as deemed fit as practical & acceptable.

22. Subletting of contract: There will be generally no objection on the component parts if the work, being given over to responsible subcontractors but Corporation shall under no circumstances recognize these subcontractors & the responsibility of executing the work in the accordance with the conditions of contract will entirely rest on the main contractor. However written consent of EIC shall be obtained before subletting. The main contractor will therefore always have the very responsible member, preferably a technical hand present on the works with power to sign all work orders issued on the site of work & to take requisite actions in the interest of efficient execution of work.

23. Other contracts for the suspension stoppage or curtailments of work: If during the tendency of the contract the Engineer shall for any reason (which shall be unquestioned) whatsoever require the whole or any part of the work as specified in the contract to be suspended for any period or shall not require the whole or any part of the work as specified in the contract to be carried out at all by the contractor, he shall give notice in writing of the fact to the contractor who shall thereupon suspend or stop the work totally or partially as the case may be. In any case except as provided hereunder, the contractor shall have no claim to any payment or compensation whatsoever on account of any profit or advantage which he might have derived from the execution of the work in full but he did not so derive in consequence of the full amount of the work not having being carried out, or on account of any loss that he may be put on account of materials purchased or agreed to be purchased or for unemployment of labour recruited by him. He shall not also have any claim for compensation but reason of any alterations having been made in the original specifications, drawings, designs & instructions that may

involve any curtailment of the work as originally contemplated. Where however, materials have already been purchased or agreed to be purchased by the contractor, before receipt of the aforesaid notice, the contractor shall be paid for such materials at the rate determined by the Corporation, provided they would have been useful for the work curtailed or stopped are not in excess of requirements are of approved quality & cannot be used on other contract works or otherwise by the contractor &/or shall be compensated for the loss if any, that he may put to, on respect of materials agreed to be purchased by him, the amount of such compensation to be determined by the Corporation, whose decision shall be final. The Corporation may order the contractor to suspend any work on account of bad weather; rain or storm & such other adverse climate conditions & the contractor shall comply with the same. The contractor shall not be entitled to any compensation for such suspensions of work.

- 24. Other contractors:** Apart from this work, the other works connected with this work will be simultaneously going on either departmentally or through any other contractors. The contractors shall co-operate with others to their fullest extent & shall allow each other every facility & coordination for the execution of their works simultaneously & satisfactorily, during their action of machinery or execution of any other co-ordination works, the contractor will have to co-operate as directed by the Corporation's Engineers in the charge of the works. In such cases the contractor shall not be entitled for any compensation on account of reduction or stoppage of labour force/machinery/equipment's etc. In the matter of dumps, haul, roads, drainage, diversion & the like, each contractor shall take into considerations the needs & the requirements of the other contractors if any working in the vicinity. Further no contractor shall take or cause to be taken any stops or action that may cause disruption, discontent or disturbance to the work, labour arrangements etc. to other contractors. Any action, by any contractor, which the Corporation in the unquestioned discretion may consider as infringement of the above code, would be considered as a breach of the contract conditions & the Corporation may take such action as may deem fit against the contractor & the action taken shall be considered as final & binding.
- 25. Speed of work:** The contractor shall at all times maintain the speed of work to conform to the latest operative progress schedule but the Corporation may at any time with sufficient notice in writing direct the contractor to slow down or to accelerate any part or the whole work for any reason (which shall not be questioned whatsoever) & the contractor shall comply with such orders of the Corporation. The compliance of such orders shall not entitle the contractor to any claim or compensation.
- 26. Contract document & matters to be treated as confidential:** All documents, correspondence, decision & other matters concerning the contract shall be considered as of confident & restricted nature by the contractor & he shall not divulge or allow access there to any unauthorized persons of any kind.
- 27. Access to the contractor's book:** Whenever it is considered necessary by the Corporation to ascertain the actual cost for execution of any particular item of work, the Corporation may do so by directing the contractor to produce the original invoices.
- 28. Interest on money due to the contractor:** The contractor shall not be entitled to receive the interest on the payment due to him upon measurements or otherwise or on any balance payable to the contractor. Also, contractor shall not be allowed to relate it with the progress of work at site in any case.
- 29. Measurements to be provisional & subject to correction:** Every measurement for running payment on account of work done shall be subject to adjustment or final measurements. In case there is disagreement between such intermediate & final measurements, the latter shall prevail.
- 30. R. A Bills:** The contractor shall submit his R/A bill every month, which shall be processed in reasonable time after checking and recording the MB. The contractor shall be responsible to submit R/A bills well in time and shall depute his representative for joint checking of the measurements; so that the bills can be processed in time. The contractor shall take due care in this regard, failing to which consequences will be up to him.

Welfare Cess

- 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.
- 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.
- The welfare cess@1% is considered in the price schedules So, the bidders are requested to quote accordingly.
- GETCO shall pay the welfare cess by way of reimbursing to contractors on production of documentary evidence of payment.
- 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 on

Signature of Contractor

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.

31. Breach on part of Corporation not to annul contract: No breach or non-observance on the part of the Corporation of any the agreements contained herein, shall annul this contract of discharge the contractor from the observance & performance thereof, or of any part thereof, but on application by the contractor & in the unfettered discretion of the Corporation an extension of time may be given to the contractor in respect of such breach or non-observance by the Corporation.

32. Labour conditions:

1. The contractor shall comply with the labour laws laid as may be current & shall furnish the returns & information as may be specified from time to time.
2. The contractor shall as far as possible obtain his requirements of labour, skilled & unskilled from the local areas.
3. The contractor shall pay wages as per the latest circulars applicable at the times for the minimum wages to be paid to unskilled, semiskilled & skilled labour prescribed by the Govt. of Gujarat.
4. The Corporation shall have the authority to remove from the work site any person, who may be considered unfit or undesirable & no responsibility shall be accepted by the Corporation for any delay or extra expense caused towards the completion of the work by such removal.
5. If Govt. declares a state of scarcity or famine to exist in any village situated within 10 Km. of the work site then the piece worker or contractor shall employ upon such parts of work, as are suitable for unskilled labour any person certified by the Corporation or by any person to whom the Corporation has authorized, & shall pay the minimum wages as fixed by the Govt. of Gujarat in this behalf. Any dispute that may arise in the implementation of the clause the decision of the Supdt. Engineer (civil) shall be final & binding.
6. The contractor shall provide reasonable facilities to the labour employed by him. The usual facilities are weather proof shelter for rest & meal, supply of whole some drinking water, facilities for obtaining food, reasonable washing & sanitary facilities, special facilities for women workers, suitable residential accommodation, general sanitation & health measures etc.
7. The implementation of any & all provisions of this clause in no way entitles the contractor to claim in this contract.

33. Local Laws: All local laws in force at the time entering into the contract & those enacted there after shall be binding on the contractor & he shall abide by the same. All import duties, sales tax & other local taxes shall be borne by the contractor & they shall be deemed to have covered by this quoted rate.

34. Performa returns: The contractor shall maintain Performa, charts & details regarding machinery, equipment's, materials labour, personnel & other matters as may be specified by the Corporation time to time.

35. Maintenance: The contractor shall maintain the works under contract for a period of one year from actual date of completion and during this period all maintenance expenditure incurred shall be borne by the contractor.

36. Insurance: The contractor shall procure, or arrange for the Subcontractor to procure insurance coverage in amounts approved by the Corporation & sufficient to protect against the following risks arising out of the work. Accidents & professional & non-professional sickness of all labourers & personnel engaged in the work as required by Law pursuant to Workmen's Compensation Act, 1923 or Revised version thereof. Injury or death to third parties including without limitation injury or death caused by any of the construction aids or vehicles or rented machinery, equipment's used by the contractor or subcontractor whether at the site or elsewhere. Damage to contractor's tools machinery construction equipment's form works, scaffolding materials etc. due to floods, earthquake or any such cause. Damage to the existing permanent structures of the Corporation & nearby villages, equipment's of the Corporation or of the co-contractors working in the area for other works. All the above conditions referred for the insurance cover, shall be in effect from the date of commencement of the work until the Corporation has accepted the work. In the policies covering the insurances referred to above, the Corporation, contractor & the subcontractor shall be as co-ensured where possible. The cost of insurance shall be borne by the contractor.

37. Liens: Final payment to the contractor shall not be made until the contractor shall deliver to the Corporation receipts in full in lieu thereof, & in either case, an affidavit that so far he has knowledge or information the releases & materials for which in lien could be filed. If any lien remains unsatisfied after all the payments are made, the contractor shall refund to the Corporation all money that the latter may be compelled to pay in discharging such a lien, including all costs & a reasonable attorney.

38. RIGHTS OF THE OWNER

Whenever any claim or claims for payment of a sum of money arises out of or under the contract against the contractor, the Owner shall be entitled to withhold and also have lien to retain such sum or sums in whole or in part from the security, if any, deposited by the contractor and for the purpose aforesaid, the Owner shall be entitled to encash and withhold the amount of Performance Bank Guarantee or other security, if any, furnished as the case may be. The Owner shall also have a lien over the same pending finalization or adjudication of any such claim. In the event of the security is insufficient to cover the claimed amount or amounts, the Owner shall be entitled to withhold and have lien to retain to the extent of the such claimed amount or amounts referred to above, from any sum or sums found payable or which at any time-thereafter may become payable to the Contractor under the same contract or any other contract with the Owner or GUVNL or its subsidiary companies pending finalization or adjudication of any such claim.

Lien in respect of Claims in other Contracts:

- a) Any sum of money due and payable, to the Contractor (including the security deposit) under the contract may be withheld or retained by way of lien by the Owner against any of its claim in respect of payment of a sum of money arising out of or under any other contract made by the contractor with the owner or GUVNL or any of its subsidiary companies.
- b) It is agreed that the sum of money so withheld or retained under this clause by the Owner will be kept withheld or retained as such by the owner till its claim arising out of the same contract or any other contract is either mutually settled or determined by the arbitrator or competent court, as the case may be, and the Contractor shall have no claim for interest or damages whatsoever on this account or on any other ground in respect of any sum of money withheld or retained under this clause and as may be duly notified to the contractor."

39. Safety Cum Indemnity Bond: Contractor has to execute safety cum indemnity bond with Corporation on a non-judicial stamp paper of value no less than Rs.100.00/- as per the format of Corporation.

40. Safety Clause

1. The Contractor shall follow and comply with all GETCO 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 GETCO Safety Rules referred above, the latter shall be binding on the Contractor unless the statutory provisions are more stringent.

2. 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 per person
1	Up to → 1 Lac	Rs.5000/-
2	Above 1 Lac to → 10 Lacs	Rs.25000/-
3	10 to → 100 Lacs	Rs.100,000/-
4	> 100 Lacs	1.0 %

3. **Reporting: -**

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

4. **Safety Requirement:**

- 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.
- During site visit by GETCO official of Executive Engineer and above rank, the following checks during execution of work shall be covered.
 - Safety equipment available and utilize.
 - Helmet.
 - Safety belt.
 - Safety shoes.
 - Live line Voltage detector
 - Safety procedure adopted.
 - Permit to work
 - Earthing at the place of work.
 - Adequate supervision.
 - T & P physical Check. (Healthiness and Quality)
 - P.P. rope.
 - Wire rope and sling.
 - Earthing rod
 - If above-mentioned safety requirements found violated in any of the above three conditions shall attract penalty of Rs.1000/- as applicable per occasion. (Max.Rs.3000/- for violation of three conditions)
 - During subsequent visit, if violation is found, then double penalty as applicable shall be deducted from the bill of the Contractor/Agency.

WORK & SAFETY REGULATIONS

- The contractor shall ensure proper safety of all the workmen, materials, equipment & plant & belonging to him or to GETCO 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 Engineer, as he may deem necessary.
- Contractor has to provide ISI marked ELCB / MCB having sufficient capacity of standard make at point of supply.
- 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 GETCO in this regard.
- 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 produces as and when desired by Engineer or by the person authorized.
- The contractor shall provide suitable safety equipment of prescribed standard to all employees and workmen according to the need.

6. 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. The contractor only shall use good and standard quality of material.
7. The contractor shall not interfere or disturb electric fuses, wiring and other electrical equipment belonging to the owner / other contractors under any circumstances, whatsoever, unless expressly permitted in writing to handle such fuses, wiring or electrical equipment.
8. 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 max. current rating & voltage of the appliances;
 - c. Obtain permission of the Engineer detailing the sockets to which the appliances may be connected.
9. 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, ones of which shall be an earthed metal sheath surrounding the cores.
10. 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.
11. 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 sufficiently quantity of tools will have to be provided by the contractor to electricians/ workmen/ officers.
12. In case any accident occurs during the construction/ erection or other associated activities undertaken by the contractor thereby causing any minor or major fatal injury to his employees due to any reason, whatsoever, it shall be the responsibility of the contractor provide medical facility / treatment & to promptly inform the same to the Engineer in prescribed form and to also to all the authorities envisaged under the applicable laws.
13. 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.
14. The contractor shall not be entitled for any damages/ compensation for stoppage of work due to safety reasons 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.
15. 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 himself & his fellow employees.
 - c. Employee 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.
 - e. Requirements of ventilation in underwater working to licensed and experienced divers, use of gumboots for working in slushy or in inundated conditions are essential requirements to be fulfilled.
16. The contractor shall follow and comply with all GETCO 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 GETCO 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/- per These are applicable

Causing death

person as applicable

for death

- b. Major injuries or accident causing
25% or more permanent disablement
To workmen or employees

Rs. 20,000/-
per person
as applicable

injury to any
person,

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 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.

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 works in indoor and outdoor systems of GETCO, the following guideline and preventive measures are identified.

Indoor safety precaution	Outdoor safety precaution
The method of work required T&P and Man power should be discussed between GETCO supervisor, contractor's supervisor and gang leaders.	The method of work required T&P and Man power 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. - Clearly identify the work location, to distinguish between the equipment that is dead and other equipment/part that may be live. - Disconnect equipment from supply. - Protect against other live parts. - Take special precautions when close to bare conductors/ Bus bar.	Prior to execution of work a joint survey Must be conducted by GETCO supervisor, contractor's supervisor and DISCOM lineman in order to identify the following: - HT/LT line or tap line crossing under Each span of line of the work. - Isolation point of each line crossing. - Each line crossing & isolation point under each span must be discussed and noted in maintenance register with sketch.
Following safety guidelines are mandatory For all contractors operating in GETCO premises for Electrical, non-electrical & civil works. - The contractors must provide advance planning of work to concerned in-charge of substation in writing. - Before starting any work whether switchyard, "permit to allow to work" must be taken from control room in-charge. - Utilizing Electrical / non-electrical equipments, safety rules must be implemented. - If the work is to be carried out on Sunday or public holiday, the necessary permission must be taken in advance, requesting in writing. - Unwanted person including children of labours will not be allowed at working site/ in the switchyard and in the prohibited area. - Any electrical work or electrical connections to equipment for any other work must be carried out by certified	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. While execution of stringing work, the identified line crossing must be isolated /de-energized and written clearance should be obtained from concerned DISCOM supervisor. The isolation of Tap line must be physically seen and verified by Contractor and GETCO supervisor. 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 Contractor's supervisor must ensure that concern officer take LCP for EHV line and power line crossing.

electrician/wiremen with adequate size of wire through MCB as per I.E. Rule. - Live penal area / bus bar must be isolated and sealed / bifurcated with red colour tape for visible warning. - Display Board must hang on LCP panel. - 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 in absence of GETCO authorized person. All wire temporary connection & material whenever erection activity has any connection and disconnection work of bus bar, string bus.	
All workers / labour of contractor & supervisors must use personal protective equipment (PPE) during the work like gloves, safety belt, Safety shoes, Helmet, earthing rods, etc, duly approved by GETCO.	All workers / labour of contractor & 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.
The local earthing must be done at the place of work before execution of any work.	The local earthing must be done at the place of work before execution of any work.
11kVbreakerinpanel must be switched off and racked out only after ensuring no voltage in breaker and without door opening.	Circuit breaker opening is not an isolation and isolator on either side must be opened. No work during rains and cloudy weather condition.
	Transmission line activities. 1) Used of Voltage detector to ensure outage. 2) Earthing at three point, local, left & right side of bus bar / string bus. 3) Match line colour code with colour of wristband.
	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.

SAFETY CUM INDEMNITY BOND

(Non Judicial Stamp Paper of Rs. 300/-)

KNOW ALL MEN BY THE SEPRESENTS that We, _____ by this SAFETY CUM INDEMNITY BOND Executed on this _____. We Having Registered Office _____ (here in 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-favour of the Gujarat Energy Transmission Corporation Limited (GETCO), Anjar State Transmission Utility under The Electricity Act, 2003 having its registered office at Sardar Patel Vidyut Bhavan, Racecourse, Vadodara. (here in after called as GETCO, which expression shall mean and include its legal representative, administrators as signs) has agreed under the terms and conditions W.O. No. _____ and contract no. made between for the work of "_____" for the contract of the value of Rs. _____ interiliac 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/ W.O. No. _____ for "_____" issued by the GETCO after having observing necessary formalities, the details of which is described in the W.O. No. _____ 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 to1Lac	Rs.5000/- plus GST as applicable
2	Above1Lac to 10Lacs	Rs.25000/-plus GST as applicable
3	10 to 100 Lacs	Rs.100,000/- plus GST as applicable
4	>100Lacs	1.0% of contract value plus GST as applicable

- g. I/We the CONTRACTOR here by 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 Here to 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.

Agency Name,
Address:

Signature

In the presence of name and address;

(1) _____

Signature

(2) _____

Signature

CONTRACT AGREEMENT
(Non Judicial Stamp Paper of Rs. 300/-)

This Agreement is made at Anjar the _____ day of _____ in the Christian Year Two thousand fourteen between M/s. _____ (address of office) _____ (hereinafter referred to as "THE CONTRACTOR" which expression shall unless excluded by or repugnant to the contract include its successors or permitted assigns) of the ONE PART and the Gujarat Energy Transmission Corporation Ltd, having their Head office at Vidyut Bhavan, Race Course, Baroda 390 007 (hereinafter called "The GETCO" which expression shall unless excluded by or repugnant to the context include its successors or assigns) of the other part.

WHEREAS the aforesaid GETCO has accepted the tender of the aforesaid contractors for _____ as per GETCO's Order No. _____ hereinafter called "the works" and more particularly described and 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 GETCO, a list whereof 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 contractors for the construction of the said works for the sum of Rs. _____ Rupees (_____) upon the terms and subject to the conditions herein mentioned.

NOW THIS AGREEMENT WITNESSESS 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 and conditions and stipulations contained in this contract, and in consideration of the due provision, executions, supply and completion of the works agreed to by the contractor as aforesaid the Board doth hereby covenant with the contractor to pay all the sums of moneys 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 here-in-before in this contract are subject to and without prejudice to the rights of the Board to enforce penalty for delays and / or any other rights whatsoever including the right to reject and cancel on default or breach by the contractor of the conditions and the covenants as stipulated in the general conditions, specifications, forms or tender schedule etc. attached with GETCO's Order No. _____.

The contract value, extent of supply & erection works, 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.

SCHEDULE

List of documents forming part of the contract:

1. GETCO's Tender Specification No. _____ and contractor's offer opened on dated _____/_____/2026
2. GETCO order No. _____ Dtd. _____ / _____ / 2026
3. Contractor's acceptance of order vide letter no. _____.
4. Contractor's Partnership Deed Dtd. _____.
5. Contractor's Power of Attorney / Board Resolution authorizing person to sign on behalf of Firm.

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

- 1) Signed, sealed and delivered by
(Signature with name, Designation and official seal)
For and behalf of
M/s. _____ (Signature)

Address: _____

In the presence of (Full Name, Address and Signatures)
i) _____ (Signature)

ii) _____ (Signature)

- 2) Signed, sealed and delivered by
(Signature with name, Designation and official seal)

For and on behalf of Gujarat Energy Transmission Corporation Ltd., Anjar.

In the presence of name, Full address and Signature:

(1) _____

(2) _____

(On the letter head of the firm/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 certify that M/s. _____ and their
proprietor/any partner/any directors 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 the firm

Signature of the tenderer

CA Certificate

To,
EE / SE
GETCO,
(Location Address)

Sub.: CA Certificate for payment of GST and uploading of the invoice details on GSTN portal

This is to certify that M/s (Name of the Party and Address) have completed the work / supply of (Nature of Work) against (Work Order No. and date). It is further certified that the GST charged on the bills of the said work order are paid to Government and accurate & correct details of such invoices are also uploaded on the GSTN portal within the stipulated time. It is further certified that GST charged from GETCO has neither been refunded nor is refund claim pending with GST Department.

Name of the Firm
Name of the CA
Designation
M. No.
Firm Registration No.

Date:
Place:

**UNDERTAKING
(ON LETTERHEAD OF COMPANY/FIRM)**

To,
EE / SE
GETCO,
(Location Address)

Sub.: (Nature of Work with Order No. of GETCO) -- Submission of Undertaking thereof

I/we hereby undertake that if GST Charged on the invoices of the above stated order is not paid/ short paid to government or if I/we fail to upload the details or uploads inaccurate particulars on GSTN portal within the stipulated time limit, GETCO shall have the right to recover the amount of GST along with penal interest at the rate of 15 % p.a.

I/we, hereby undertake that in the event of any refund of GST either full or part if received by me/us in future in respect of the goods and/or services for the above state order, I/we shall pass on the same to GETCO without any formal claim to that effect from GETCO.

Thanking You,

Name of the Supplier / Contractor
Name, Signature of the Authorised
Signatory

Date:
Place:

A/T ACCEPTANCE LETTER: -
(TO BE SUBMITTED ON FIRM'S LETTER HEAD)

Ref. No.
Date:

To,
The Superintending Engineer (AM)
Gujarat Energy Transmission Corporation Ltd,
220KV Anjar Substation Compound,
Anjar Circle office
Anjar– 370110

Sub: _____

Ref Order No. _____

We hereby acknowledge, agree and accept your A/T under reference above with terms and conditions mentioned therein.

(Signature)

Designation _____

(ON STAMP PAPER OF RS. 300/-)

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

BG. No.
Issue Date:
Expiry Date:
Claim Expiry Date:
Amount:

FORM OF BANKER'S UNDERTAKING

[Combined Performance Guarantee (PBG) towards Execution / Supply Period and Guarantee / Warranty Period as per Commercial terms and condition of Tender]

We, _____ (Name of the Bank and Address of the Branch giving the Bank Guarantee) having our registered office at _____ (Address of Bank's registered office) hereby give this Bank Guarantee Number _____ Dated: _____ and hereby agree Unequivocally and Unconditionally to pay immediately on demand in writing from the Beneficiary Company **Gujarat Energy Transmission Corporation Limited** or any officer authorized by it in this behalf any amount up to not exceeding Rs. _____ (Amount of combined Performance Guarantees towards Execution / Supply Period and Guarantee / Warranty Period) (Rupees _____ (in words)) to the said **Gujarat Energy Transmission Corporation Limited** on behalf of M/s _____ who have entered into a contract for the supply/works specified below:

L.O.I 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 or 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 Guarantee shall not be assignable, transferable by the Beneficiary **Gujarat Energy Transmission Corporation Limited**. 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 _____ in words)). Our 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 writing on or before _____ (Date of validity of the Bank Guarantee), all rights of the Beneficiary under this Bank Guarantee shall be forfeited and we shall be released and discharged from all liabilities there under:

Place:

Date:

Signature of the Bank's Authorized Signatory
with Official Round Seal

(Bank Name)

(Branch Code)

(Complete Postal Address of the Bank)

(Telephone Number)

(Fax Number)

NAME OF DESIGNATED BANKS:

Note : The banks shall be the Banks recognized / notified by the Finance Department, Government of Gujarat (GoG) from time to time

PARTY TO TAKE NOTE PLEASE BEFORE SUBMITTING THEIR BANK GUARANTEES

1. Bank Guarantee number and date to be written on every page of Bank Guarantee & its extension.
2. If B/G amount is more than Rs. 1,00,000/-, kindly take sign of Two Bank Officer with their respective Employee Code No.
3. Valid confirmation letter of the concerned Bank in an approved format should be attached with every Bank Guarantee & its Extension.
4. Stamp paper should be valid & recent one and date of issuing of stamp paper should not be beyond six months, in any case.
5. Round seal and signature of two Bank Officers with name & sign code should be affixed on every B/G paper.

(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,

Anjar.

Ref: Anj/Civil/E-Tn/99/2026

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,

(On the letter pad of the company)

Date:

Declaration Of Relationship With Employee

To,

The Superintending Engineer (AM)

Gujarat Energy Transmission Corporation Ltd,

Circle office,

Anjar.

Ref: Anj/Civil/E-Tn/99/2026

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

For the work of.....

We do not have any type of relationship with any current employees of GETCO.

Yours Faithfully,

SECTION -D TECHNICAL SPECIFICATIONS

GUJARAT ENERGY TRANSMISSION CORPORATION LTD
STANDARD FIELD QUALITY PLAN (REVISED-R1)
FOR CIVIL WORKS OF GETCO PROJECTS

Sr. No.	Component/Operation & Description of Test	Sampling Plan With Basis	Ref. Document for Acceptance	Testing Agency	Specific Guideline	Approving Authority
1	MATERIAL					
A	CEMENT (FROM APPROVED LIST ONLY)					
(i) (ii) (iii)	Fineness Compressive Strength Initial & final setting time	As per mix Design requirement	IS: 456, IS: 269 IS: 8112, IS: 12269 IS: 1489	Govt. Approved Lab	The tests for cement Coarse aggregates & Fine aggregate shall be conducted during Mix design for Concrete. Mix design shall be subject to approval by GETCO	B-3
B	COARSE AGGREGATES (FOR CONCRETE)					
(i) (ii) (iii) (iv) (v) (vi) (vii) (viii) (ix)	Determination of Particle size (Sieve Analysis) Flakiness Index Crushing Value Specific Gravity Bulk Density Absorption Value Moisture Content Soundness of Aggregate Presence of deleterious materials.	As per mix Design requirement	IS: 383, IS: 2386 IS: 456	Govt. Approved Lab	In case of change of source of coarse & Fine aggregates, mix Design should be revised.	B-3
C	COARSE AGGREGATES (FOR ROAD AND YARD)					
(i) (ii) (iii) (iv) (v) (vi) (vii) (viii) (ix) (x)	Particle Size Distribution Elongation Index Flakiness Index Deleterious Material Specific Gravity Water Absorption Impact Value Los Angeles Abrasion Value Aggregate Crushing Value 10% Fines value	As per relevant IS	IS ; 2386, IS : 383	Govt. Approved Lab	To be approved by GETCO	B-3

Signature of Contractor

60 | Geo. investigation of 66kV Mundra-Mundra IND line (Anj/Civil/E-Tn/99/2026)

(xi)	Soundness					
(xii)	Alkali Aggregate Reactivity					
(xiii)	Petrography					
D	FINE AGGREGATE					
(I)	Gradation /Determination of Particle size	As per mix Design requirement	IS: 383, IS: 2386, IS: 456	Govt. Approved Lab	In case of change of source of coarse& Fine aggregates, mix Design should be revised.	B-3
(ii)	Specific Gravity and density.					
(iii)	Moisture content					
(iv)	Absorption Value					
(v)	Bulking					
(vi)	Silt Content Test					
(vii)	Presence of deleterious materials					
E	BURNT CLAY BRICKS					
(i)	Dimensional tolerance	As per relevant IS	GETCO Specs. IS: 3495) (Part I to Iv)	Govt. Approved Lab	To be approved by GETCO	B-3
(ii)	Compressive Strength					
(iii)	Water Absorption					
(iv)	Efflorescence					
F	FLY ASH LIME BRICKS					
(i)	Dimension	As per relevant IS	GETCO Specs. IS: 3495 and IS: 12894	Govt. Approved Lab	To be approved by GETCO	B-3
(ii)	Water absorption					
(iii)	Drying Shrinkage					
(iv)	Compressive Strength					
(v)	Efflorescence					
G	SOLID CC BLOCKS					
(i)	Dimension	As per relevant IS	GETCO Specs. IS: 2185 Part 1	Govt. Approved Lab	To be approved by GETCO	B-3
(ii)	Block Density					
(iii)	Compressive strength					
(iv)	Water absorption					
(v)	Dry Shrinkage					
H	BELLA STONE					
(i)	Water absorption	As per relevant IS	GETCO Specs. IS: 2386 Part 3	Govt. Approved Lab	To be approved by GETCO	B-3
(ii)	Compressive Strength					
I	PRECAST CC PAVER BLOCKS					

(vi)	Reverse Bend Test for HYSD Wire	Each size One sample per Each size One sample per Each size One sample per Each size		Manufacturer . Govt. Approved Lab		
M	STRUCTURAL STEEL					
(i)	Chemical Composition	One sample per	IS :2062, IS	Govt.	Approved by	B-3
(ii)	Tensile Strength	Heat	:228, IS	Approved	GETCO.	
(iii)	Yield Strength	One sample per	: 1608, IS :	Lab		
(iv)	Percentage Elongation	Each size	1599, IS :			
(v)	Bend Test	One sample per	1757, IS :			
(vi)	Impact Test	Each size	10842			
(vii)	Y Groove Crack ability Test	One sample per				
(viii)	Dimensions	Each size				
		One sample per				
		Each size				
		One sample per				
		Each size				
		Random				
N	FOUNDATION BOLTS					
(i)	Identification & size	Random	IS : 209, IS :	Govt.	Approved by	B-1
(ii)	Chemical Analysis Test	One sample per Each	2016, IS	Approved	GETCO.	
(iii)	Tensile Test	One sample per Each	:2062, IS :	Lab		
(iv)	Yield stress/Proof Stress	One sample per Each	2633, IS			
(v)	Percentage Elongation	One sample per Each	:12427,&			
(vi)	Bend / Rebend	One sample per Each	GETCO			
(vii)	Weight/Thickness/Uniformity of Galvanizing	One sample per Each	Specification			
O	PVC WATER STOPS					
(i)	Tensile strength	One sample per Each	IS : 15058, IS	Contractor	Approved by	B-3
(ii)	Elongation	One sample per Each	:8543 (Part4 /	should	GETCO.	
(iii)	Hardness	One sample per Each	Sec 1),	Produce		
(iv)	Water absorption, percentage by mass	One sample per Each	IS : 13360 (Part	manufacturer'		
		One sample per Each	5 /	stest		
		One sample per Each	Sec 1), IS ;	Certificate.		
		One sample per Each	9766 &	i.e		
			GETCO	from		
			Specification	approved		
		One sample per Each		Manufacturer		

Signature of Contractor

(vi)	Cold bend temperature at which sample does not crack	One sample per Each				
(vii)	Accelerated extraction test: (a) Tensile strength (b) Elongation Stability in effect of alkalis test: (a) weight increase at 7 days, % by mass (b) weight decrease by mass at 7 days, % by mass (c) Change in hardness at 7 days (d) Weight increase at 28 days (e) Weight decrease at 28 days (f) Dimension change	One sample per Each				
P	Bought out item (shown as annexure – II) Check the bought out items are as per Technical specification / IS codes before use. Approval of all bought out items.	Check all the items	GETCO Specification	Joint inspection By GETCO. And Contractor	Approval by GETCO.	A
2	WORKS					
	GANTRY/EQUIPMENT FOUNDATION/CABLE TRENCH					
A	BEFORE EXCAVATION					
(i) (ii)	Checking of pegs location as Per line and alignment Checking of pit making as per Drawing& RL	100% on each Location 100% on each Location	IS: 4091, IS: 3764 &GETCO approved Drawing/ specification	Contractor	Approved by GETCO.	C
B	EXCAVATION					
(i) (ii) (iii)	Dimensional conformity Verticality/slopes & Square ness of each pit Verification of classification of foundation wherever applicable.	Each location Each location Each location	IS: 4091, IS: 3764 &GETCO approved Drawing/ Specification.	Contractor Contractor Joint inspection By GETCO. And Contractor	Approval by GETCO. (1) Foundations will not be placed on filled up soil (2) Minimum depth Of foundation will be 750 mm in Virgin soil.	B-3
C	ANTITERMITE TREATMENT					

(i)	Check for material to be used	100%	IS : 6313 & GETCO Specification	Joint inspection By GETCO. And Contractor	Approval by GETCO.	B-3
(ii)	Check for proportion	Random				
(iii)	Depth and c/c distance of holes	Random				
(iv)	Check for pouring of required quantity of liquid in holes	Random				
D	P.C.C. PADDING	For all locations	IS:456, GETCO Approved foundation Drawing & specification	Joint inspection By GETCO. And Contractor	Approval by GETCO.	C
E	SHUTTERING (Form work)					
	Check for materials, breakage or damage Check for plumb, alignment Parallelism,squareness and equidistance from stub Dimensional check. Check for level & height Check for rigidity of frame/tightness Cleaning and oiling Diagonal bracing if required as per drawings/site conditions. Checking of joints to avoid undue loss of cement slurry	100%	IS: 456, GETCO Specification/ Approved drawings.	Joint inspection By GETCO. And Contractor	Approved by GETCO.	C
F	PLACEMENT OF REINFORCEMENT STEEL.					
(i)	Check the steel bars for rust, cracks, surface flaws, laminate etc. (Visual check)	100%	IS: 456, GETCO Specification/ approved drawings.	Joint inspection By GETCO. And Contractor	Approved by GETCO.	B-3
(ii)	Check as per the bar bending Schedule before placement of Concrete. Check cutting tolerance for bars as per check List/drawings.					
(iii)	Check whether all bent bars and lap lengths are as per approved bar bending schedule.					
(iv)	Check whether all joints & crossing of bars are tied properly with right gauge & annealed wire as per specification.					
(v)	Check for proper cover distance spacing of bars, spacers, & chairs after the reinforcement cage					
Signature of Contractor						

65 | Geo. investigation of 66kV Mundra-Mundra IND line (Anj/Civil/E-Tn/99/2026)

(vi)	has been put inside the formwork. Check whether lapping of bars are tied properly with right gauge and annealed wire as per specification.					
G	PILE FOUNDATION (Additional Tests)					
(i)	Check of centre line of pile group	Each pile group	IS:2911 &GETCO Approved pile Foundation Drawings/ Specification. GETCO Approved pile foundation Drawings/specification	Joint inspection by GETCO and Contractor	Checklist to be prepared And signed jointly	B-3
(ii)	Check pile location	Each pile				
(iii)	Temporary casing tube & permanent line also check Thickness of liner material (if applicable)	Each pile				
(iv)	Bentonite slurry (if applicable)	Each pile				
(v)	Pile depth, level, size and alignment	Each pile				
(vi)	Chipping of pile head	Each pile				
(vii)	Pile load testing	As per GETCO GBOQ/Specification IS: 2911				
(viii)	Anchor bolts if applicable					
(ix)	Level, centre to centre distance of bolts.	100% on each Location				
(x)	Visual check for galvanizing	100% on each Location				
H	SETTING OF TEMPLATE					
(i)	Identification	Each foundation	GETCO Approved specifications	Joint inspection by GETCO. and Contractor	Approval by GETCO	C
(ii)	Check for orientation of template to match with drawing	Each foundation				
(iii)	Check for line and level of template					
(iv)	Check for center line of foundation and template	Each foundation				
(v)	Check for diagonal dimensions	Each foundation				
(vi)	Check for diameter and distance of holes	Each foundation				
		Each foundation				
I	PLACEMENT OF FOUNDATION BOLTS					
Signature of Contractor						

(i)	Identification (Diameter and length)	Each foundation	GETCO Approved specifications	Joint inspection by GETCO and Contractor	Approval by GETCO	C
(ii)	Check the foundation bolts for rust, cracks, surface flaws, laminate etc. (Visual check)	Each foundation				
(iii)	Check for height of bolts above concrete level as per drawing	Each foundation				
(iv)	Check for bolt to bolt distance as per drawing	Each foundation				
(v)	Check for verticality of bolts	Each foundation				
(vi)	Check for Fixity of bolts	Each foundation				
J	PLACEMENT OF WATER STOP					
(i)	Check the water stops for blisters, pinholes, cracks, and embedded foreign matters (Visual Check)	Random	GETCO Approved specifications	Joint inspection by GETCO and Contractor	Approval by GETCO	B-3
(ii)	Check for width and thickness	Random				
(iii)	Line and level	100%				
(iv)	Fixity during concreting	100%				
K	CONCRETING					
a	APPROVAL OF MIX DESIGN.	For each grade of Concrete.	IS: 456 &GETCO Approved specifications	Contractor	Approval by GETCO	B-3
b	Batching, mixing & placing of concrete and compacting Placing concrete, and compacting	Random Random	IS: 456 &GETCO Approved drawings And specifications	Contractor	Approval by GETCO	B-3
c	CONCRETE TESTING					
	Slump test	Random	IS:456, IS:516, IS:1199 And GETCO Specifications	Contractor	Results to be recorded and signed Jointly	B-3
	Check for quantities for cement, fine aggregate, coarse aggregate and water while batching	Random				
d	CONCRETE CUBE TESTING					
	Compressive Strength	Sample (Consisting of minimum 6 cubes-3 cubes for 7days and 3 cubes for 28 days' test) 1-5 Cmt : 1 6-15 Cmt : 2	Is:1199, IS:456, IS:516	Govt. Approved lab	To be witnessed for important structure (slab)& Approved by GETCO	B-3
Signature of Contractor						

		16-30 Cmt : 3 31-50 Cmt : 4 Above 50 Cmt : 4+1 additional for each additional 50 Cmt				
L	BACKFILLING					
	Check for thickness of Layer & watering Visual check for correction/ramming Compaction test (Percentage of Max dry density)	100%	GETCO Specifications.	Govt. Approved lab	To be witnessed & Approved by GETCO	C
M	BRICK-WORK					
	Mortar mix/proportion Plumb & Alignment Joints	Random Random Random	IS:2250, GETCO Specification	Joint inspection by GETCO and Contractor	Approval by GETCO	C
N	PLASTERING					
	Plastering thickness and evenness Mortar mix proportion	Random Random	GETCO Specification GETCO Specification	Joint inspection by GETCO and Contractor	Approved by GETCO	C
O	FLOORING					
(i)	Thickness of flooring material (Kotah stone/Vitrified tiles/glazed tiles)	Random	GETCO Specification	Joint inspection by GETCO and Contractor	Approved by GETCO	B-3
(ii)	Mortar mix proportion	Random				
(iii)	Line and level	100%				
(iv)	Joints	100%				
P	WATERPROOFING					
(i)	Check for material to be used	100%	GETCO Specification,	Joint inspection By GETCO. And Contractor	Approval by GETCO	B-3
(ii)	Cleaning of terrace	100%				
(iii)	Proportion of mortar	Random				
(iv)	Level	100%				
(v)	Joints	100%				
(vi)	Pond Test	100%				
Q	CURING FOR CONCRETE, MASONRY, PLASTERING ETC.	100% on all locations	IS 5613 & GETCO Specification,	Contractor.	Approval by GETCO	C
R	ALLUMINIUM DOORS/WINDOWS					
(i)	Check for size of different members	Random		Joint inspection	Approval by GETCO	B-2
Signature of Contractor		68 Geo. investigation of 66kV Mundra-Mundra IND line (Anj/Civil/E-Tn/99/2026)				

(ii)	Check for weight of different members	Random	IS: 733, IS: 1285, IS:1868, & GETCO Specification	By GETCO. and Contractor and test report from Manufacturer		
(iii)	Check for anodizing	Random				
(iv)	Check for joints of various members	Random				
(v)	Check for thickness of glass	Random				
(vi)	Fixing (line, level, plumb)	100%				
(vii)	Gap between frame and wall	100%				
S	FALSE CEILING					
(i)	Type of false ceiling	Random	GETCO Specification	Joint inspection By GETCO. And Contractor	Approval by GETCO	B-2
(ii)	Thickness of false ceiling panel	Random				
(iii)	Check for size and weight of different members of false ceiling skeleton	Random				
(iv)	Fixing with wall	Random				
(v)	Line and level	Random				
(vi)	Check for hangers	Random				
(vii)	Cutouts for lighting fixtures	Random				
T	GI PIPE FOR WATER SUPPLY					
(i)	Check for weight as per diameter of pipe	Random	IS: 1239 & GETCO Specification	Joint inspection By GETCO. And Contractor	Approval by GETCO	B-3
(ii)	Depth of excavation for pipe line	Random				
(iii)	Laying of pipe line as per layout given	Random				
(iv)	Fixing of pipe with clamps on walls	100%				
(v)	Watertight ness of joints	100%				
U	SITE SURFACING					
(i)	Check for layers of 200mm	100%	GETCO Specification	Contractor and Govt. approved Laboratory	Approval by GETCO	B-3
(ii)	Check for watering	100%				
(iii)	Check for rolling	100%				
(iv)	Check for density (% Compaction)	100%				
V	ROAD WORK					
(i)	Visual check for material	One sample	IS383 & 2386 GETCO Specs.	Contractor	Approval by GETCO	B-3
(ii)	Stacking of material	100%				
Signature of Contractor		69 Geo. investigation of 66kV Mundra-Mundra IND line (Anj/Civil/E-Tn/99/2026)				

(iii)	Preparing the land for road	Random	GETCO Specification			
(iv)	Spreading of metal in required thickness	Random				
(v)	Camber	Random				
(vi)	Rolling	Random				
(vii)	Watering	Random				
W	YARD QUARRY DUST/METAL SPREADING					
(i)	Visual check of material	One sample	IS383 & 2386 GETCO Specs.	Contractor	Approval by GETCO	B-3
(ii)	Stacking of material	100%				
(iii)	Preparing the land upto required level	Random				
(iv)	Spreading of material of required thickness	Random				
(v)	Compaction	Random				
X	FALSE FLOORING					
(i)	Type of false flooring	Random	GETCO Specification	Joint inspection By GETCO. And Contractor	Approval by GETCO	B-2
(ii)	Thickness of false flooring panel	Random				
(iii)	Check for size and weight of different members of false flooring skeleton	Random				
(iv)	Fixing with floor	Random				
(v)	Line and level	Random				
(vi)	Check for studs	Random				
(vii)	Cutouts for panel to be supported on MS channel	Random				
Y	PERIPHERAL/ROAD SIDE DRAIN					
(i)	Alignment as per lay out	100% on each Location	As per approved drawings	contractor	Approval by GETCO	C
(ii)	Invert level as per outlet points	100% on each Location	As per approved drawings	contractor	Approval by GETCO	C
(iii)	Concrete and masonry as per FQP		As per approved drawings	contractor	Approval by GETCO	C

Signature of Contractor

:: GENERAL GUIDELINES FOR IMPLEMENTATION ::

1. Details of categories of check codes A, B & C including accepting and deviation dispositioning authorities are indicated at Annexure-I
2. GETCO specification shall mean GETCO technical specification, approved drawings data sheets and Law provisions applicable for the specific contract.
3. Acceptance criteria and permissible limits shall be as per relevant Indian Standards and/ or prevalent code of practice / GETCO specifications.
4. It is clarified that the tests indicated at column 2 of this FQP i.e. Against column "component operation & Description of test", are only generally required to be conducted. However, GETCO reserves the right to carry-out any additional tests at any stage if the situation so warrants.
5. SE (AM) of circle shall approve testing laboratory before accepting the test results from the lab.
6. SE (AM) of circle shall approve the sources for cement, coarse aggregate, fine aggregate & water before actual utilization.
7. All the testing & measuring equipment's used by the contractor for testing are required to be calibrated. A Copy of valid calibration report shall be retained by GETCO based on the joint inspection.
8. Classification of foundations shall be approved by GETCO based on the joint inspection report & Soil investigation reports.
9. Zone-IV fine aggregate shall be used for nominal mix. Reinforced cement concreting work. Zone-IV fine aggregate shall be avoided for design mix reinforced cement concreting work unless tests have been done to ascertain the suitability of proposed with the prior approval GETCO site
10. Bricks should be free from cracks, flaws and modules of free lime. They should have smooth rectangular faces with sharp corners and should be uniform in colour.
- 11. Cement**

In case of cement is in the scope of the contractor, the same shall be procured from sources approved by GETCO site and got tested on sample basis for specified acceptance tests as specified in the FQP at a reputed third party lab approved by GETCO site. The samples of cement for site testing shall be taken within three week of the delivery and all the tests shall be commenced within one week of sampling. If the cement remains in store for a period of more than Six months. All the site tests are required to repeated before usage. The source and grade of cement shall be as per approved design mix.
12. Reinforcement steel & structural steel used in cable trenches & foundations

In case supply of steel is in the scope of the contractor, the same shall be procured from the main producers i.e. SAIL, TISCO, IISCO or Rashtriya Ispat Nigam or the rerollers approved by main producers. The results of testing of cement and reinforcement steel referred in 11 and 12 above shall be got approved from GETCO site before cement and reinforcement steel are put to use. However, in exceptional cases due to exigencies of work, GETCO site may authorize the contractor to use cement and reinforcement steel even before the test results are received. However, in all such cases, if the test results subsequently received are found to be not complying with the specified acceptance criteria, the contractor shall have to dismantle and recast all such foundations cast with such non-conforming materials at his own cost. Confirmation to this effect shall be obtained from the contractor by the project authorities beforehand in all such cases.
13. The contractor shall submit welding procedure specification (WPS) including the type of electrode used for approval of GETCO site before starting the welding work. The welder with proper certificate shall be deployed
14. Approval/acceptance of individual test results by GETCO in the course of execution of contract will neither relieve the contractor from his contractual obligations and responsibilities, nor does it limit the owner's right under the contract.
15. In case, requirement of special items like super sulphated cement, corrosive resistant reinforcement Steel (CRS) etc. arise due to site conditions, the specific approval of GETCO may be obtained before using the same and all the tests as per relevant standards shall be carried out.
16. All the materials shall be stored by the contractor in a manner affording convenient access for identification and inspection at all the times. Storage of material shall be in accordance with IS: 4032 (latest edition).

ANNEXURE-I

GUJARAT ENERGY TRANSMISSION CORPORATION LIMITED Accepting and deviation dispositioning authorities for different Categories of checks as envisaged in field quality plan

Category	Type of Check	100%Checking/ witnessing by	counter check/ surveillance check by	Accepting Authority, if Test Results Are within Permissible Limit	Deviation Dispositioning Authority
A	Critical	EE (civil) of circle With Contractor's Engineer	SE(TR) Plus EE(C)	SE(TR) Plus EE(C)	CE, Corporate Office
B-1	Major	DE (Quality Deptt)	EE (Quality Deptt)	EE (Quality Deptt)	CE (Quality Deptt)
B-2	Major	EE (civil) of circle With Contractor's Engineer	SE (Civil)	SE (Civil) plus EE (C)	CE, Corporate Office
B-3	Major	DE(C)	EE(C)	EE(C)	SE(TR) Plus EE(C)
C	Minor	JE(C)	DE(C)	DE(C)	EE(C) Plus DE(C)

ANNEXURE-II

BOUGHT OUT ITEMS

Check the following bought out items for their specifications / IS codes before use

Cement.	Prestressed concrete cover for cable trench.
Murum or yellow earth for filling in yard or plinth.	Oil bound distemper.
Bricks/Block.	Acid/Alkali resistant paint.
Reinforcement.	Apex or equivalent exterior paint.
Structural steel.	Epoxy paint for flooring in GIS room.
Foundation bolts.	Rolling shutter.
Fine aggregate.	Chain link fencing panel and angle.
Coarse aggregate for all type of concrete, WBM road and metal spreading in yard.	Wash basin.
PVC water pipe line with fixtures.	Orissa pan/European pan.
PVC drainage pipe line with fixture.	Glass mirror.
PVC rain water pipe with fixture.	Marble year plate.
PVC casing pipe for bore well.	Towel rod for bath room.
4 mm thick flat copper cable for submersible pump	Sliding gate.
Teak wood for frame and shutter.	RCC Hume pipe.(pressure/Non pressure).
Aluminium door, window and ventilator.	Submersible pump for bore well.
FRP door.	Substation Sign boards.
Steel cup board shutter.	Acrylic name plates.
False ceiling material.	MS cover for cable trench in control room/GIS room.
Glazed tiles.	Ear thing strips.
Kotah stone and marble strips.	Grout materials for foundation/flooring.
Vitrified tiles.	Anti-weedicide
Granite or Marbo granite tiles.	
Metallic hardener topping.	
Paver concrete block.	

Signature of Contractor

72 | Geo. investigation of 66kV Mundra-Mundra IND line (Anj/Civil/E-Tn/99/2026)

(D) TECHNICAL SPECIFICATIONS:

(E1) General Conditions:

1. The contractors shall at their own expense make all necessary provisions for housing, water supply, and sanitary arrangements for their employees as well as for works and shall pay direct to the authorities concerned, all rates and taxes.
2. The contractor shall make their own arrangements for the necessary approach, road, for transport of their materials and be responsible for the compensation on account of damage to crop etc. & shall till completion of work.
3. All the royalty charges, Octroi and other duties & all taxes will be paid by the contractor and no extra be claimed on this account.
4. Godowns or sheds hired or constructed for storing of controlled materials and more particularly of cement shall be such as would prevent the materials from getting damaged in any way.
5. It will be absolutely incumbent on the contractors to have on the site of work only such of the materials as have been duly passed by the Engineer-in-charge. Materials that have been rejected must on no account be allowed to remain on the site, and in spite written order to do so, any such rejected material is on the site beyond a period of 48 hours' notice, the Engineer-in-charge shall have the right to remove it, at the risk and cost of the contractors and even to destroy it.
6. It must be distinctly understood that conditions of contract and of claims in respect of extra work, will not be allowed unless the works to which they relate is clearly without the spirit and meaning of the specifications or unless such works are ordered in writing by the Engineer-in-charge and claimed for in specified manner.
7. On completion of the work, the site shall be cleared by the contractor within the stipulated period, and ground brought to original state and they shall not be entitled for any extra claim on this account.
8. General Specifications of the relevant Indian standard specification shall also apply.
9. Damage to work clause:
The works whether fully constructed or not and all materials, machinery plant tools, temporary buildings and other things connected there shall be at the risk and in the sole charge of the contractor, until the works have been delivered, completed to the satisfaction of the Engineer-in – charge and certificate from him to the effect is obtained. Until such delivery, the contractor shall at their own cost, take all the precautions reasonably necessary, to keep all the aforesaid works, materials, machinery, plant tools. Temporary buildings and other things connected with the works, free from any loss or damage and in the event of the same or any part thereof being lost or damaged, shall forthwith within the possible speed, reinstate and made good such loss or damage at contractor's own cost.
10. Any components or part of the work shall not be given to any sub-contractor without approval of the competent authority of the Corporation. The whole responsibility of the execution of the work, as per the terms and conditions of the contract, will entirely rest of the main contractor. The main contractor shall always keep his responsible representative, preferably a technical hand, on work site with powers to sign M.R.s. and take necessary decision and implement the instructions issued in the interest of efficient execution of the works.
11. The Engineer-in-charge will fix the hours of work, and no work shall be executed beyond that period, during night time or in absence of the Engineer-in-charge of his authorized agent. The box measures shall be filled only in the presence of the engineer-in-charge or his authorized agent.
12. Contractor will be asked to present the sample of materials, and the approved samples will be preserved at the site of work, and no charge in the approved sample will be allowed, without the written permission of the Engineer-in-charge.
13. In any work is not executed according to the specifications, and the directions of the Engineer-in -charge, the same will be rejected, and the contractor has re execute the same without any financial implication to the Corporation.
14. Contractor will have to communicate the name of his authorized agent, who shall be present on the works, and shall be authorized to sign the material requisitions, receive instruction given verbally or on the order book, on behalf of the contractor.
15. The contractor will have to sign the conditions of contract, and execute the agreements, send the list of previous works executed, solvency certificate and pay up the security deposits, failing to that, the tender will be rejected and earnest money deposited will be forfeited. The value of the stamp paper and stamp duty charges shall be borne by the contractor.
16. Tenderer must return the form of tender, with the specifications and the schedule of quantities, and rates and other schedules only signed on each page. Any tender not bearing signature of the tenderer on all the documents accompanying the tender is liable to be rejected.

17. Before submitting his tender, unit rates, which shall be for the finished work complete, including charges involved in testing, maintenance for a period of 12 months, the tenderer shall closely examine the specifications and carefully study the drawings and all documents, which form a part of the contract, to be entered into by the accepted tenderer.
18. The Tenderer must visit the site of works and see for himself the site conditions regarding water, labour conditions rates approach road during all seasons and all other matters affecting the works before submitting the tender.
19. The submission of tender by a contractor implies that, he has read these instructions, the conditions of contract etc. and has made himself aware of the scope and specifications of the work to be done, and of conditions and rates at which stores will be issued to him, and local conditions and other factors bearing on the executions of the work. The Corporation will not therefore, after acceptance contractor's rate, pay any extra charge for lead or for any other reason. In case the contractor is found later on, to have misjudged the site conditions.
20. The tender document shall be written legibly and free from erasure, over writing or conversions of figures. Correction where unavoidable, shall be made by crossing out, initialing, dating and rewriting.
21. The Corporation or its officers, who accept tender, shall have the right of rejecting all or any of the tenders, and will not be found to accept the lowest offer not to assign any reasons whatever, for the rejection of any tender or all tenders.
22. The tender notice to tenderers shall form a part of the contract.
23. The entire work is to be completed, within the stipulated time limit from the date of issue of letter for commencement of the work by field office. The contractor will not be eligible for any extra for the idle period of works, or waiting period that may be required to suit other consideration, and no claims for compensations on account of such, will be considered. However, in case of delay due to circumstances beyond the control of contractors, either in date of commencement or due to, waiting during construction, extension in time may be considered for completion of works, without any penalty to the Corporation.
24. The contractor shall keep full time qualified Civil Engineers at the site, who shall be fully authorized to receive and comply with such instructions, as given by the Executive engineer. The name of such Engineer with his qualifications and experience shall be intimated by the contractor.
The Executive Engineer shall have the right to demand the removal of any technical personnel, skilled or unskilled workmen, who in his opinion are considered to cause bad workmanship in the execution of works or to cause indiscipline.
25. The department reserves the right to make any change in the design and the plans of the works and the contractor shall be bound to carry out them at the rates tendered. No claim or compensation will be allowed on this account.
26. Bills shall be submitted by the contractor monthly on or before the date fixed by the Executive Engineer, for all works executed in the previous months.
27. Should this tender be accepted I /We hereby agree to abide by and fulfill all the terms and provisions of the "Tender & contract for works" as applicable, and in default thereof to forfeit and pay to the Corporation the sums of money due.
28. The contractor shall keep instruction book on site, for taking site instruction from time to time. This book shall be made available on site whenever asked for.
29. The contractor shall pay wage to the workers, as per minimum wages act as declared by the Government time to time.
30. The contractor shall follow all labour laws of Govt.
31. Contractor shall arrange for testing of material to be used in the work or finished product, if desired by the Executive Engineer. The provision shall be made in the unit rate quoted for this.
32. The full value of the "Earnest Money Deposit" paid herewith, shall be forfeited to the Corporation, if the contractor fails to deposit the full amount of specified security deposit, within stipulated time.

(E2) Use of Materials:

- I. The contractor shall have to use the best quality of materials in the work, as per the specifications and relevant I.S. codes. In case Corporation desires to carry out any field test/laboratory test for any materials required for the work, the contractor shall arrange for the same at his own cost. Further, for any finished works such as masonry, plastering, cube testing for all important concreting work etc., if any testing is required same shall be arranged by the contractor at his own cost. The contractor shall have to maintain the regular records for such testing and shall submit along with each R.A. bills.
- II. No collection of materials shall be made before it is go t approved from the Engineer-in-charge.
- III. Materials, if and when rejected by the Engineer-in-charge shall be immediately removed from site of work.

- IV. All installations pertaining to water supply and fixtures thereof as well as drainage lines and sanitary fittings shall be deemed to be completed only after giving satisfactory tests by the contractor.
- V. Approval to the samples of various materials given by the EIC shall not absolve the contractor from the responsibility of replacing defective material brought on site or materials used in the work found defective at a later date. The contractor shall have no claim to any payment or compensation whatsoever on account of any such material being rejected by E.I.C.
- VI. Approval to any of the executed item for the work does not in any way relieve the contractor of his responsibility for the correctness, soundness and strength of the structure as per the drawing and specification.
- VII. **Contractor has to supply cement, reinforcement steel & structural steel from GETCO/GUVNL's subsidiary company approved vendors only. To visit the GETCO's website for approved Vendor list.**

Special condition for use of cement in work:

- 1). The rate in Schedule-B is inclusive of cement cost. Contractor has to purchase fresh 43-53 grade cement confirming to as per IS: 8112 and of approved brand by G. E. T.C.O.
- 2). Contractor has to construct pucca go-down at site of work so that cement bags can be properly preserved to avoid damage due to any kind of water.
- 3). Contractor has to bring sufficient of cement bags and at no time less than 200 (two hundred.) bags to maintain progress of work. The work should not suffer for want of cement.
- 4). Cement should give the required strength.
- 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 account for consumption of cement used with every bill. In case of not submitting the same, bill will not be passed. Party 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 Corporation/mix design and nothing will be paid extra for over consumption.
- 8). Contractor is fully responsible for safety of cement at site; nothing will be paid extra on account of safety.
- 9). If Corporation's authorized representative wants to check cement stock at site, contractor has to allow for the same at any time.
- 10). Contractor has to maintain day-to-day cement consumption / balance account at site.
- 11). As far as possible contractor has to maintain supply of cement of only approved brand and grade throughout the work.
- 12). Minimum cement consumption considered for cement concrete having grade of M-15/M-20/M- 25 is 300 Kgs/320-Kgs/340Kgs respectively. Contractor has to use minimum cement as above. Contractor should not use less than the prescribed quality of cement even in the case of mix design recommends lower quantity.
- 13). Contractor will be allowed to carry out work only after physical verification of cement brought at site.

(E3) CEMENT CONSUMPTION SCHEDULE:

The proportion of cement with coarse aggregate and the fine aggregate for cement concrete works & with sand in case of cement mortar will be in accordance with the under mentioned schedule showing the consumption of cement in bags. The Engineer-in-charge will adjust the proportion of cement irrespective of the mix mentioned in the description of the items, to ensure the consumption of the cement as per prescribed schedule. The tendered rate will be considered to have been based on the consumption of cement in this schedule and nothing extra will be paid on this account.

a. If the quantity of cement shown as utilized in the work, is observed to be less than permitted as below then work will be accepted at reduce rate at the discretion of EIC, if deemed fit.

Table showing the cement required to be consumed in civil work items.

Sr. No.	Item Description	Unit	Cement to be consumed In Bags
1. Masonry Works			
	B.B. Masonry in C.M. 1:6.	1 CMT	1.4
	U.C.R. Masonry in C.M. 1:6	1 CMT	1.7
	U.C.R. with pointing in C.M. 1: 2	1 CMT	2.0
	115 mm thick B. B. Partition in C.M. 1:4	1 SMT	0.2
	–do- but with both sides plaster in C.M. 1:3;12 mm thick.	1 SMT	0.46
	2. Cement Concrete works without finishing	1 SMT	0.46
	C.C. 1:1 ½ : 3	1 CMT	8.12
	C. C. 1 : 2 : 4	1 CMT	6.27
	C.C. 1 : 3 : 6	1 CMT	4.42
	C.C. 1 : 4 : 8	1 CMT	3.00
	C.C. 1 : 5 : 10	1 CMT	2.47
3. Flooring			
	25 mm thick I.P.S. in C.C. 1:2:4	1SMT	0.25
	–do- 40 mm thick	1SMT	0.35
	–do- 50 mm thick	1 SMT	0.45
	–do- 75 mm thick	1SMT	0.60
	–do- 100 mm thick	1SMT	0.75
	Cement for fixing marble Mosaic Tiles	1SMT	0.13
	–do- White glazed tiles with 12 mm thick coating cement plaster for leveling.	1SMT	0.25
	Terrazzo floor finishing 20 mm thick with mm thick back coating cement plaster.	1SMT	0.25
	Kotah stone flooring	1SMT	0.20
4. Bedding Below Flooring			
	110 mm thick C. C. 1 : 4 : 8	1 SMT	0.35
	– do – C. C. 1 : 5 : 10	1SMT	0.28
5. Plastering & Pointing			
	12 mm thick C.P. in C.M. 1 : 3	1SMT	0.13
	20 mm thick C.P. in C.M. 1:3	1SMT	0.19
	20 mm thick sand faced in two layers.	1SMT	0.20
	Cement Pointing 1 : 1	1SMT	0.07
6. Ground Sink 750 x 750 mm with dwarf wall			
	115 mm thick 40 mm IPS with 110mm. thick 1: 5: 10 bedding,	1NO	0.75
7. RCC water tank 1000 liter. (1.2x1.2x0.9M with free Corporation)			
	– do – size (2x2x0.9 M with free Corporation) (3000 Liters)	1NO	13.0
8. Kitchen Platform with 75 mm thick slab with 2 partitions with 12 mm smooth plaster.			
	Size 2000 x 675 mm	1NO	1.50
	Size 3000 x 675 mm	1NO	2.50
9. 75 mm quarter round vata in C.M. 1:2.			
	100 mm – do –	100RMT	4.0
	150 mm – do –	100RMT	5.0
	10. Fixing W.C. Pan	100RMT	7.0
	11. Gully trap with chamber or 300x300mm.	1 No.	0.50
	Nahni trap	1NO	0.75
		1NO	0.05
	12 50mm thick RCC shelf in C.C. 1:1 ½ : 3	1 SMT	0.60
	13 - do - precast cover 300 mm, wide 50 mm thick with smooth finishing on all sides.	1SMT	0.60
	14 Manhole chambers with 230 mm, thick masonry in C.M. 1:6 and depth up to av. 1000		

Signature of Contractor

mm incl. cement plaster in C.M. 1:3 inside, top and outside up to 150 mm depth.

Size 900 x 450 mm	1NO	2.5
Size 600 x 450 mm	1NO	2.0
Size 600 x 600 mm	1NO	2.25
Size 900 x 900 mm	1NO	3.70
Size 450 x 450 mm	1NO	1.25
Size 300 x 300 mm with 110 mm partition wall.	1NO	0.75

15 RCC hume pipe with filling joints in C.M. 1:1 and bed concrete 1:4:8 below joints 150 mm. thick

750 mm Dia	1RMT	0.45
650 mm Dia	1RMT	0.35
450 mm Dia	1RMT	0.24
300 mm Dia	1RMT	0.16
225 mm Dia	1RMT	0.12
150 mm Dia	1RMT	0.08

16. Porcelain Pipes (S.W.G. Pipes)

100 mm Dia	1RMT	0.06
150 mm Dia.	1RMT	0.08

17 150 mm Dia half round gutter in C.C. 1:3:6 1 RMT 0.15

18 2500 mm Dia x 300 mm deep of hollow masonry in C.M. 1:6 with C.C. 1:4:8 bedding & RCC slab cover, for soak pit. 1NO 21.00

Note: (1) Consumption figures mentioned against each item is for theoretical consumption. This consumption may vary + 5 %.

(2) In the case of plaster to masonry walls, an extra quantity of 1 Cft to mortar for every 100 sq. ft. of area may be allowed at the discretion of EIC.

General: Please refer latest edition of relevant Indian Standard Specification of Code i.e. B.I.S. General relevant I.S. of B.I.S. shall prevail for all items including materials, measurements etc. The Item wise detailed specifications are intended for full description of items covered by Schedule "B". The specifications are not however intended to cover every detail and the works shall be executed according to the spirit of the specifications below and the best prevailing P.W.D. practice. The clarification to any clause in detailed specifications shall be sought from the latest edition of relevant I.S. specification and codes. Where these specifications are at variance with the specification laid down in the I.S. Books stated above, the former will be applicable. As regarded matters not covered by any of the above specification, the decision of the Executive Engineer-in-charge shall be treated as final and shall be binding upon the contractor. The contractor is expected to get clarified any doubt about specification, etc. before tendering by discussing with Executive Engineer.

(E4) SCOPE OF WORK

To investigate the subsurface soil conditions at the site boreholes are required to be carried out as per consultant borehole plan. The detailed scope of investigation is as follows: -

- Drilling of Drill holes of depth specified by consultant from the existing ground surface and determines the in-situ engineering. Which includes but not limited to Setting up boring ring at each bore hole location and boring 150 mm diameter bore holes through all kinds of soils.
- Drilling vertically through the rock using 'NX' size (76 mm) with double tube core barrel fitted with diamond studded drill bits. The aim of core drilling is not to make a hole, but to retrieve a core sample- a long solid cylinder of rock that can analyze to determine the composition of rock under the ground. The boreholes will terminate in hard rock.

- Conducting Standard Penetration Test at every specified interval starting from first sample at 1m depth or at the change of stratum as per IS: 2131
- Collection of Undisturbed soil samples, disturbed soil samples at every specified interval starting from first sample at 0.5m depth or at the change of stratum and carrying out various laboratory testing as per IS codes, two set of sample should be taken. Which should include but not limited to followings,
 - Collecting undisturbed soil samples in suitable cohesive stratum.
 - Collection of undisturbed sample.
 - Collection of rock core sample and carrying out various laboratory testing as per IS codes.
 - Arranging all soil samples and rock cores in the core boxes as per the borehole logging, labeling properly in sequence indicating borehole number, site identification and depth of sample.
 - Conducting Static Cone Penetration tests.
 - Conducting Dynamic cone penetration tests.
 - Conducting Trial pits as required, Proctor Test, Field Density test and CBR (Soaked and Unsoaked)
 - Ground water monitoring and Sampling
 - Handing over the one set of soil sample of each borehole along with bore hole log and the rock core samples (if found) in core boxes to Client's representative for safe storage and future reference.
 - Transporting the soil /rock and water samples to the laboratory for conducting tests as per the scope of the work.
 - Preparation of bore logs and location plan of boreholes on computer by using suitable Software and lab testing of soil/rock samples.
 - Analysis and interpretation of field & laboratory test data for the preparation of Geotechnical investigation report. which should include but not limited to separately analysis of each borehole, Calculation of bearing capacity for each building separately as well make recommendation of foundation type for each building separately.
 - All the analysis and reporting should be done by qualified geotechnical engineer; also he/she should visit the site during soil investigation. In addition, he/she should be available to defend the report during approval at GETCO, Circle office, Anjar, if needed.
 - Submission of draft report in 1 copy with one soft copy and final reports in 3 copies with one electronic file should be submitted in CD-ROMs.

(E5) DETAIL SPECIFICATION FOR EARTH WORK FILLING:-

Filling in foundation and plinth with murrum or selected soil in layers of 20 CM thickness including watering, ramming and consolidation etc. complete (Yellow earth should be brought by contractor from outside) Note : 25 % of the successive bill amount shall be retained till lapse of one full scale monsoon and rectifications of subsistence if any to the design ground level)

1.0. Materials

1.1. Murrum shall be clean, of good binding quality, and of approved quality obtained from approved pots / quarries of disintegrated rocks which contain silicon materials and natural mixture of clay of calcareous origin. The size of murrum shall not be more than 20mm.

2.0 Workmanship

The relevant specifications of item No. 4 shall be followed except that murrum or selected soil shall be filled in foundation and plinth in 20 cms. Layers including consolidating, ramming, watering, dressing, etc. complete.

3.0. Mode of Measurements & Payment

3.1. The relevant specifications of item No. 4 shall be followed.

3.2. The rate includes cost of collecting, carting murrum / or selected earth of approved quality with all lead and labour required for filling the same in trenches and plinth under floors.

3.3. The rate shall be for a unit of one cubic meter.

(E6) TECHNICAL SPECIFICATION FOR CARRYING OUT THE SOIL INVESTIGATION:

The Vender shall depute at least one experienced Field technician as per site requirement throughout the field investigation period to supervise the work in field, prepare bore logs and monitoring the sampling and field test, consultation with the representative of the consultant and clients. All the analysis and reporting should be done by qualified geotechnical engineer/ Engineering Geologist; he/she should visit the site at-least one time during soil investigation for observation of geological formation and visual inspection of the site. In addition, he/she should be available to defend the report during approval at GETCO, Circle office, Anjar, if needed. All the field and lab test should be carried out in accordance with Specifications of relevant codes of Bureau of Indian Standard, which should include but not limited to,

❖ Field investigation:

- IS: 1892: Code of practice for subsurface investigation of foundation
- IS: 1498: Classification and identification of soil for general engineering purpose
- IS: 2131: Method for standard penetration test for soil
- IS: 2132: Method for collecting undisturbed soil samples
- IS: 4968(part -1): Method for subsurface sounding of soils by Dynamic cone penetration tests
- IS: 4968 (part III): Method for subsurface sounding of soils by Static cone penetration tests
- European code EN 1997-2:2007 (E) clause 4.6 – Method for conducting “SPT” in *gravelly deposit*
- British code BS 1377-9:1990 clause 3.3.1 - Method for conducting SPT in gravelly sand
- IS: 5313: Guide for Core Drilling Observations
- IS: 6926: Code of Practice for Diamond Core Drilling for Site Investigations
- IS: 4078: Code of practice for indexing and storage of drill core.
- IS: 4464 Code of practice for presentation of drilling information and core description in foundation investigation
- IS: 5529 (Part – I & Part - II) Code of practice for in – situ permeability tests in overburden and rock respectively.
- IS: 8763 - Method for Undisturbed sampling in cohesion less soil
- IS: 6935 - Method for determining the ground water table in bore holes

❖ **Lab test:**

- IS: 2720 (Part –IV) - Grain Size Distribution by Sieve Analysis and Hydrometer Analysis
- IS: 2720 (Part – V) - Consistency limit determination to obtain liquid limit and plastic limit
- IS: 2720 (Part –III) - Specific Gravity determination
- IS: 2720 (Part – II) - Natural moisture content and in-situ density tests on UDS samples
- IS: 2720 (Part – XI, XII & XVI)- Shear strength and consolidation tests on UDS samples
- IS: 2720 (Part –XXIV& XXVI) - Chemical analysis of soil to determine pH, Sulphate (SO₃) and Chloride (Cl)
- IS: 3025 - Chemical analysis of water to determine pH, Sulphate, (SO₃) and Chloride (Cl)
- IS: 9143 - Soaked crushing strength of rock
- IS: 13013- Porosity, Density and specific gravity test on rock
- IS: 1498 - Engineering classification of soil

❖ **Analysis and Reporting**

- IS: 6403- 1981, Code of Practice for Determination of Bearing Capacity of Shallow Foundation
 - IS: 8009 (Part I) –1976, code of practice for calculation of settlements of Foundations
 - IS 456:2000 Code of Practice for Plain and Reinforced Concrete
 - Any other relevant codes & specifications as decided by Consultant
- ❖ The report should contain analysis of each borehole separately; Calculation of bearing capacity for each location should be done separately as well make recommendation of foundation type along with bearing capacity for each location should be presented separately in report.

(E7) METHODOLOGY OF FIELD INVESTIGATION:

1) Field Investigations – In Soil or Overburden

A. Boring

i) General Requirements

- a) Boreholes shall be taken at specified locations to obtain information about the sub-soil profile, its nature and strength and to collect soil samples for strata identification and conducting laboratory tests. The minimum diameter of the bore shall be 150 mm and boring shall be carried out in accordance with the provisions of IS: 1892 as per this specification.
- b) All bore holes shall extend up to depths as per scope mention elsewhere in this ToR or directed by consultant representative. If the strata with Standard Penetration Test (SPT) 'N' value greater than 100 with characteristics of rock is met with, prior to the specified depth, the bore hole shall be advanced further by chiseling. Chiseling shall be continued for a maximum depth of 20 cm or up to 2 hours whichever is earlier.

During chiseling rock fragments shall be collected. Identification of rock strata shall be on the basis of visual examination of SPT sample and rock fragments. After it is established that rock is met with, borehole shall be advanced further by drilling in rock and core shall be collected. When the bore hole is terminated in soil strata, an additional Standard Penetration Test shall be carried out at the termination depth.

Casing pipe shall be used in the borehole to support its sides when a side fall is suspected to occur inside the borehole. When casing pipe is used, it shall be ensured that its bottom end is at all times less than 15 cm above the bottom of the borehole and not below the level at which the test has to be conducted or sampling has to be done. In case of cohesion less soils the advancement of the casing pipe shall be such that it does not disturb the soil to be tested or sampled. The casing shall be advanced by slowly turning the casing pipe and not by driving.

- c) In-situ tests shall be conducted or undisturbed samples (UDS) shall be collected in the bore holes at regular intervals and at change of strata or as decided by the consultant Representative. Disturbed samples shall be preserved for conducting various identification tests in the laboratory. Water table in the borehole shall be carefully recorded and reported. No water /drilling mud shall be added while boring above ground water table. For cohesion less soil below water table, the water level in the bore hole shall at all times be maintained slightly above the water table.
- d) The bore hole shall be cleaned using suitable tools up to the depth of testing or sampling, ensuring that there is minimum disturbance of the soil at the bottom of the bore hole. The process of jetting through an open tube sampler shall not be permitted. In cohesive soils, the bore hole may be cleaned using a bailer with a flap valve. Gentle circulation of drilling fluid shall be done when rotary mud circulation boring is adopted.
- e) On completion of the bore hole, including the borehole in which special tests are conducted, Vender shall backfill all the bore hole as directed by the consultant representative.

ii) Auger Boring

Auger Boring can be adopted in soft to stiff cohesive soils above water table. Augers shall be of helical or post hole type which may be manually or power operated. While boring, care shall be taken to minimize the disturbance to the deposits below the bottom of the bore hole. The cuttings brought up by the auger shall be carefully examined in the field and the description of all the strata shall be duly recorded. No water shall be introduced from the top while conducting Auger boring.

iii) Shell and Auger Boring

Shell and Auger boring can be used in all types of soil free from boulders. For cohesion less soil below ground water table, the water level in the bore hole shall always be maintained at or above the ground water level. The use of chisel bit shall be permitted in hard strata with SPT-N value greater than 100. Chisel bits may also be used to extend the bore hole through local obstruction, such as boulders, etc.

iv) Percussion boring (Chiseling)

This method can be adopted in soil with gravel and boulders when the boring has to be done at a fast rate. This method consists of breaking of the strata by

repeated blows from a chisel or drilling bit and bailing out the debris at interval by adding water into the bore hole. This method is permitted for gravel and boulders or SPT-N value greater than 100.

v) Rotary Mud Circulation Boring

This method can be used in all types of soil below water table. In this method boring shall be done by rotating the bit fixed at the bottom of the drill rod. Proper care shall be taken to keep firm contact between the bit and the bottom of the bore hole. Bentonite mud shall be used as the drilling fluid to prevent caving in of the bore hole sides. Use of percussion tool shall be permitted in hard clays and dense sandy deposits.

B. Standard Penetration Test

It may not be possible to conduct SPT test wherever boulders/cobbles/pebbles/gravels are encountered in bore holes drilled in top overburden debris. However, attempt will be made to get SPT values wherever soil is encountered up to the required depth.

It is difficult to establish any correlation between SPT 'N' value and ϕ value for gravelly / boulder formations in a cohesion less matrix. Only in case of pure cohesion less soil, a curve is given in IS code 6403 for calculating the ϕ value for a given 'N' value. Moreover, 'c' value cannot be determined from SPT 'N' value in case of cohesive matrix mixed with gravels, boulders etc. The SPT 'N' nature is generally refusal i.e. more than 100 and even penetration is also a few cm only in overburden material of the area as experienced in the past. This test shall be conducted in all types of soil deposits met within a bore hole, to find the variation in the soil stratification by correlating with the number of blows required for unit penetration of standard penetrometer. This test shall be conducted at 1.5m intervals and every change of strata and as per the direction of the consultant representative. The starting depth of performing SPT shall be between 0.5 and 1.5 m depth below ground level. The depth interval between the top levels of Standard Penetration Test and next undisturbed sampling shall not be less than 1.0m. The specifications for the equipment's and other accessories, procedure for conducting the test, presentation of test results and collection of the disturbed soil samples shall conform to IS: 2131. This test shall be carried out by driving a standard split spoon sampler in the bore hole by means of a 650 N hammer having a free fall of 0.75m. The sampler shall be driven using the hammer and for 450mm. While driving the number of blows for every 150 mm penetration and the penetration for every 50 blows shall be recorded. The number of blows for the last 300 mm drive shall be reported as N value. This test shall be discontinued when the blows count is equal to 100 at the penetration shall be recorded. Refusal shall be considered to be met with when the blow count is equal to or greater than 100. At the location where the test is discontinued the penetration and the number of blows shall also be reported. Sufficient quantity of disturbed soil samples shall be collected from the split spoon sampler for identification, and laboratory testing. The sample shall be visually classified and recorded at the site and shall be properly preserved and labeled for future identification.

"SPT" for gravelly deposit may be conducted by using solid cone in place of split barrel sampler (similar to DCPT in India but the test is to be conducted similar to SPT in a borehole) as per European code EN 1997-2:2007 (E) clause 4.6. Further the note under British code BS 1377-9:1990 clause 3.3.1 also recommends that SPT can be done in gravelly sand by replacing drive shoe by a solid 60° cone. Other parts of the equipment and arrangement shall be conforming to IS: 2131. An initial seating of the

blows shall be given and the number of blows for each 7.5 cm penetration to a total penetration of 45 cm shall be recorded if possible. Penetration shall be recorded (to mm) for every 30 blows and test shall be stopped at total of 100 blows, last reading of penetration also being recorded.

C. Sampling

i) General

- a) Sufficient number of soil samples shall be collected for reliable estimation of soil properties. The samples collected shall be either disturbed or undisturbed. Disturbed soil samples shall be collected for field identification and conducting tests such as sieve analysis, index properties, specific gravity, chemical analysis, etc. Undisturbed samples shall be collected to estimate the strength and settlement properties of the soil.
- b) All the accessories required for sampling and the method of sampling shall conform to IS: 2132. All the disturbed and undisturbed samples collected in the field shall be classified at the site as per IS: 1498.
- c) All the samples shall be identified with date, bore hole or trial pit number, depth of sampling, identification of building block etc. It is also essential to mark an arrow pointing towards the top surface of the sample. Care shall be taken to keep the undisturbed soil samples and box samples vertically with the arrow directing upwards. The tube samples shall be properly trimmed at both ends and sealed with molten paraffin wax at both ends immediately after extracting the samples from the bore hole and suitably capped on both sides.
- d) When Vender fails to collect the undisturbed soil sample at specified depth the reason for the same shall be indicated in the bore log and the bore hole shall be advanced by 0.5m. Subsequently for cohesion less soil Standard Penetration Test shall be performed and for very soft cohesive soil field vane shear test shall be performed.

Precaution shall be taken to ensure that there shall not be any change in moisture content and disturbance of the soil samples and they shall be placed in a temporary store at the end of the day's work. All the samples shall be kept over a bed of sand, jute bags, saw dust, etc. and covered over on top with similar material. The bed and top cover shall be kept moist till they are properly packed in wooden boxes. Vender shall be responsible for packing and transporting of all the samples from site to the laboratory within seven days after sampling with proper protection against loss and damage.
- e) All the samples shall be packed in wooden boxes using sand, saw dust etc. all around the samples before transportation to laboratory for testing.

ii) Disturbed sample

- a) Disturbed soil samples shall be collected in bore holes at regular intervals to provide complete description of soil profile and its variation. Jar samples weighing approximately 10 N shall be collected in bore holes at 1.5 m intervals starting from a depth of 0.5m below ground level and at every identifiable change of strata to supplement the boring records. Samples shall be immediately stored in air tight or polythene bags and labeled with identification of building block, bore hole number and depth.

- b) In elevated areas, if superficial material is available in plenty, then bulk samples from a depth of about 0.5m below ground level shall be collected to establish all the required properties to use it as a fill material. Disturbed samples weighing about 250 N shall be collected at shallow depths and immediately stored in polythene bags as per IS: 1892. The bags shall be sealed properly and they shall be kept, in wooden boxes.

iii) Undisturbed Samples

In each bore hole undisturbed sample shall be collected at every change of strata and at regular intervals of 1.0 m and as directed by the consultant representative. The starting depth of collection of UDS shall be between ground level and 1.0 m below ground level and as decided by the consultant representative. The starting depth shall be staggered in alternate boreholes. In cohesive soils the depth interval between the top level of undisturbed sampling and standard penetration test shall be at least 0.5m. Undisturbed samples shall be *100 mm dia. and 450 mm length*. Samples shall be collected in such a manner that the structure of the soil and its moisture content do not get altered. The specifications for the accessories required for sampling and the sampling procedure shall conform to IS: 1892 and IS: 2132. Undisturbed sampling in sand shall be done using compressed air technique mentioned in IS: 8763. Thin walled sampler shall be used to collect undisturbed samples by pushing the tube into the soil. The sampling tube shall have a smooth finish on both surfaces and minimum effective length of 450 mm. The area ratio of sampling tubes shall be less than 12.5%. However, in case of very stiff soils, area ratio up to 20% shall be permitted.

Undisturbed Sampling in cohesive soil:

Undisturbed samples in soft to stiff cohesive soils shall be obtained using thin walled sampler. In order to reduce the wall friction, suitable precautions such as oiling the surfaces shall be taken. The bore hole shall be cleaned and the depth of sampling below the ground level shall be noted. The sampler shall then be attached to the bottom of the boring rods and lowered into the borehole. The sampler shall be pushed into the clay layer by hand or by jacking and soil sample of specified length shall be collected without disturbing the soil. The distance by which the sampler penetrates into the soil strata shall be checked. Care being taken to ensure that the sampler is not driven too far as this will compress the soil. The sampler shall be rotated to break the core at the bottom of the sample and then steadily drawn up.

a) Undisturbed sampling using Piston sampler:

Undisturbed samples in very loose saturated sandy and silty soils and very soft clays shall be obtained by using a piston sampler consisting of a sampling cylinder and piston system. In soft clays and silty clays, with water standing in the casing pipe, piston sampler shall be used to collect undisturbed samples. During this method of sampling expert supervision is called for. The interior surface of the sampler shall be smooth, clean and corrosion resistant. Its cutting edge and the ring seals shall be inspected for wear and rejected if worn. Check shall be done to ensure that the moving parts of the sampler function freely before the sampler is lowered into the bore hole. While pushing the system into the soil and till the beginning of the sampling operations, the bottom of the piston shall be flush with the cutting edge of the sampler. At the

depth of sampling, the piston should be fixed relative to the ground and the sampler cylinder shall be independently pressed down smoothly and continuously into the ground. If an obstruction is met, the sampler shall be withdrawn and another sample taken after the obstruction is removed. Accurate measurements of the depth of sampling, height of sampler, stroke and length of sample recovery shall be recorded. After the sampler is pushed to the required depth, both the sampler cylinder and piston system shall be drawn up together ensuring that there shall not be any disturbance to the sample which shall then be protected from changes in moisture content.

b) *Undisturbed sampling in Cohesion Less Soils:*

Undisturbed samples in cohesion less soil shall be obtained as per the procedure given in IS: 8763. Compressed air sampler shall be used to take samples of cohesion less soil below water table. Precautions shall be taken to clear the bore hole before sampling. Thin walled tube samples of 60 mm internal diameter shall be used. The height and other dimensions of the sampler shall be recorded before use. Proper care shall be taken to maintain the water level slightly above the ground water table before and during sampling operations. Immediately after the sample is obtained, the ends of the sample shall be waxed and capped to avoid moisture content changes.

iv) Relaxation during Sampling

- a) The Sampler shall be pushed into the soil and driving of sampler shall be resorted to only when it cannot be pushed into the soil. This shall be done only with the permission of the geotechnical expert and all the details about the same shall be recorded into the bore logs.
- b) In clays when N value is above 50, undisturbed samples may be replaced by standard penetration test. Even in case of cohesive strata mixed with gravel/cobble etc, the tube sampler cannot penetrate. Thus it may not be possible to find out the shear parameters by drilling of boreholes in overburden for cohesive matrix.

D. Ground Water Investigation

Groundwater affects many elements of the foundation design and construction, so that the ground water level was generally assessed from borehole during drilling. Groundwater observations should have presented on the bore hole Log and sufficient detail of groundwater condition should be provided in the geotechnical investigation report. It must be recognized that groundwater levels are subject to seasonal and annual fluctuations depending on many factors such as precipitation, water line break, surface drainage and hydrogeology of the area. Detail investigation of ground water condition should be carried out so that design modification should not require during construction as well there should not changes in construction procedures. During construction variations of construction cost should not occur due to groundwater conditions.

i) Determination of Ground Water Table

One of the following methods shall be adopted for determining the ground water table in bore holes as per IS: 6935 and as per the instructions of the geotechnical expert.

- a) In permeable soils the water level in the bore hole shall be allowed to stabilize after lowering it adequately by bailing. When the water level inside the borehole

is found to be stable, the depth of water level below ground level shall be measured. Stability of sides and bottom of the bore hole shall be ensured at all times.

- b) For both permeable and impermeable soils, the following method shall be suitable. The bore hole shall be filled with water and then bailed out to various depths. Observations on the rise or fall of water level shall be made at each depth. The level at which neither a fall nor a rise is observed shall be considered as the water table elevation. This shall be established by three successive readings of water level taken at an interval of two hours.
- c) In case any variation in the ground water level is observed in any specific boreholes, then the water level in these bore holes shall be recorded daily during the course of the field investigation. Levels in nearby wells, streams, etc. if any shall be noted whenever these readings are taken.

ii) Sub-Soil Water Samples

Sub-soil water samples shall be collected for carrying out chemical analysis. Representative samples of ground water shall be collected when it is first encountered in bore holes before the addition of water to aid boring or drilling. Water samples shall not be collected when bentonite slurry or mud has been used for drilling operations. If water has been added for drilling purpose or if ground water has been diluted by surface rain water, then the bore hole shall be dewatered and water allowed to rise from which the sample may be taken.

- a) The sampling apparatus shall be such that the water at the desired depth can be collected directly without any disturbance and any change in the concentration of the constituents like dissolved gases, etc. Under agitation shall be avoided. An ordinary suction pump with its suction end inserted up to the required depth in the bore hole shall be used for this purpose.
- b) The sample shall be collected in a clean vessel and allowed to settle so that the supernatant liquid can be poured into a clean well raised glass or polythene bottle. Sufficient quantity and number of samples shall be collected to carry out the chemical analysis and sent to a laboratory in airtight bottles with proper labeling. Chemical analysis of water samples shall include determination of pH value, turbidity; sulphate, carbonate, nitrate and chloride, presence of organic matter and suspended solids.
- c) In some cases, constituents may be mixed and analyzed later as specified in file specific test methods. Chemical preservatives may be added to the sample for cases as specified in the test method/IS codes. This shall only be done if analysis cannot be conducted within an hour of collection and shall have the prior permission of the geotechnical expert.

2) Field Investigation- In Rock

The hard stratum or top of the rock surface will have confirmed by early mention procedure, Once the hard stratum or rock surface will have met further drilling work will have carried out by the rotary core drilling equipment's and procedure as per IS: 6926. The aim of core drilling is not to make a hole, but to retrieve a core sample- a long solid cylinder of rock that can analyze to determine the composition of rock under the ground. The boreholes will terminate in hard rock after successive drilling of 0.75m to 1.5m, if the core recovery is less than 20% then the drilling will have done up to the specified depth of bore hole should be done and SPT shall be performed before every drill run.

A. Rock Drilling

i) General Requirements

- a. Quality drilling is important in maintaining a reasonable straight vertical hole and nearly circular cross-section. Sufficient number of spare parts shall be readily available at the site for maintenance of drilling rig, drilling rods, pump sets etc.
- b. Preparation of field logs providing the following minimum information:
 - Project identification, Substation (Location) Block identification, borehole number, location, start and end dates of boring completed, drill rate and depth.
 - Rock type with description of color, texture/structure, rock strength, change in rock stratum, ground water level.
 - Core Recovery percentage (CR), Rock Quality Designation (RQD), discontinuities spacing, joint condition, orientation, dip of strata, cavities, fissures, the occurrence of seams, gouge material. Core recovery percentage and RQD were computed for every drilled run based on the length of cores retrieved.
- c. $R. \% = (\text{Length of Core} / \text{Length of run}) \times 100$
 $RQD = (\text{Total Length of core pieces of 100mm \& above in Length} / \text{length of run}) \times 100$
Core recovered from the borehole shall be appropriately marked, photographed and carefully preserved in core boxes and transportation of the same shall be as per code.

ii) Equipment

- a. Core drilling shall be done by rotary motion using diamond bit, Conventional Diamond core drilling equipment may be used for drilling. The rotary core drilling equipment and procedure for drilling shall conform to IS: 6926. The equipment or set up shall be capable of recovering 75% of the drilled volume. The equipment shall be provided with necessary facilities to regulate the spindle speed bit pressure and water pressure during core drilling to get good core recovery.
- b. Drilling shall be carried out with HX/HQ or NX/NQ size diamond tipped drill bits or impregnated diamond bit depending on the type of rock encountered. Double tube swivel core barrel of Type B conforming to IS: 6926 shall be used to ensure good core recovery and to pick up cores from all layers of rock. Suitable core catches shall be used to ensure continuous and good core recovery. For ensuring maximum core recovery in weak rocky formation, triple tube core barrel including split type core barrel shall be used.

iii) Procedure

- a) The drilling fluid shall be clean water. Circulation of the drilling fluid shall be started before the core barrel reaches the bottom of the hole to prevent cuttings or sludge from entering the core barrel at the start of coring. Drilling fluid shall be circulated continuously down the hollow rods and the sludge conveying the rock cuttings to the surface shall be collected. Bentonite as drilling fluid can be used.
- b) When drilling through soft/weathered/fractured rock water circulation must be

reduced so as to avoid shattering/breaking the core.

- c) The rotational speed of the bit (spindle speed) the amount of downward pressure applied on the bit (bit pressure) and water pressure shall be suitably adjusted and properly monitored so that the core is collected with least disturbance and avoid shearing of the Core from its base Bit-speed, bit pressure, water pressure for the type of bit for various rocks type shall be as given in Appendix A of IS: 6926.
- d) No drilling run shall exceed 0.75 m in length. This can be increased to 1.5 m provided the core recovery is observed more than 80% in two successive 0.75 m drill runs and on approval from Geotechnical Engineer. If the core recovery is less than 20% then SPT shall be performed before commencing the next drill run as explained in 6.2.D below.
- e) If at any time a blocking of the bit or grinding of the core is indicated, the core barrel shall be immediately withdrawn from the borehole regardless of the length of drill run completed.

B. Observations

- i) As drilling is a very costly process, it is of utmost importance that complete observation should be made during a drilling operation. Accurate record of progress of drilling shall be kept by the drilling in charge.
- ii) The color of return water at regular intervals, the depth of which any change of color of return water is observed; the depth of occurrence and amount of flow of hot water, if encountered, shall be recorded.
- iii) The depths through which a uniform rate of penetration was maintained, the depth at which marked change in rate of penetration or sudden fall of drill rod occurs, the depth of which any blockage of drill bit causing core loss, if any shall be recorded.
- iv) Any heavy vibration or torque noticed during drilling should be recorded together with the depth of Occurrence.
- v) Special conditions like the depth at which grouting was done during drilling, presence of artesian conditions, loss of drilling fluid observation of gas discharge with return water etc., shall also be observed and recorded.
- vi) During drilling operation, observation on return water rate of penetration etc. shall be recorded in the proforma as given in IS: 5313, Appendix-A.
- vii) The sludge obtained during each run shall be collected separately, dried and packed in polythene bags with proper numbering.
- viii) Causes of poor core recovery shall be carefully examined and correlated with speed of drilling, excessively mud laden return drill water, shear zones, clay seams etc.
- ix) Data from the driller's daily records and expert's field log shall be edited interactively for preparation of graphical log.
- x) Results of in-situ permeability tests etc. shall be furnished in log sheet for each individual hole in specified standard format of Bureau of Indian Standards.
- xi) Other special conditions, which may be peculiar to individual cases during drilling operation, shall be recorded.

C. Core Samples

- i) The field logging of rock core samples obtained from the borehole will be done by competent professional engineering geologist / Geotechnical Engineer.
- ii) Core samples shall be extracted by the application of a continuous pressure at one end of the core with the barrel held horizontally without vibration. Friable cores shall be extracted from the barrel directly into a suitable sized half round plastic channel section. Care shall be taken to maintain the direction of extrusion of sample same as that while coring to avoid stress reversal.
- iii) Immediately after withdrawal from the core barrel the Cores shall be placed in a tray and transferred into boxes specially prepared for the purpose. The boxes shall be made from seasoned timber or any other durable material and shall be indexed on top of the lid as per IS: 4078. The cores shall be numbered serially and arranged in the boxes in a sequential order. The description of the core samples shall be recorded as per IS: 4464. Where no core is recovered; it shall be recorded as specified in the continuous record of core recovery and RQD to be mentioned in the bore log as per IS: 11315 Part-II.
- iv) The basic information for the standard basic geo-technical description of rocks shall cover
 - a) Degree of weathering
 - b) Discontinuity spacing
 - c) Strength
 - d) Color
 - e) Grain size
 - f) Texture
 - g) Structural condition, the mineralogy of the grains and cementing material
 - h) Rock name and supplementary adjectives, if any, special features like major joint planes fractures/laminations, faults, etc. shall also be indicated.

D. Standard Penetration Test

The relevant hardness of rocks shall be tested in boreholes and after every drill run of 0.75 m in rock if core recovery is observed less than 20% or as directed by geotechnical engineer. "SPT" for poor rock may be conducted by using solid cone in place of split barrel sampler (similar to DCPT in India but the test is to be conducted similar to SPT in a borehole) as per European code EN 1997-2:2007 (E) clause 4.6. Further the note under British code BS 1377-9:1990 clause 3.3.1 also recommends that SPT can be done in poor rock by replacing drive shoe by a solid 60° cone. Other parts of the equipment and arrangement shall be conforming to IS: 2131. An initial seating of the blows shall be given and the number of blows for each 7.5 cm penetration to a total penetration of 45 cm shall be recorded if possible. Penetration shall be recorded (to mm) for every 30 blows and test shall be stopped at total of 100 blows, last reading of penetration also being recorded.

3) Field Investigation- In-Situ Permeability Tests

The procedure for conducting field permeability tests in over burden will be according to IS 5529 Part-II. In-situ permeability / Lugeon test will be conducted in the boreholes

at the termination depth in each borehole. The examination of cores from holes gives only a general idea of the physical condition of the rocks constituting the foundation media. Water percolation tests/Lugeon tests if performed in the boreholes are of significance in interpreting the drilling data and in supplementing the information with regard to permeability characteristics. Determination of permeability or rock mass is of greatest significance in assessing the problem of seepage. It is therefore considered necessary to perform the Lugeon/permeability tests. These tests shall be performed in bedrock as outlined in I.S. 5529 (part – II for rock) (1983). The Lugeon test comprises the measurement of the volume of water that can escape from an uncased section of boreholes in a given time under a pressure. The flow is confined between two packers in the double packer test or between one packer and bottom of the borehole in a single packer test. For computing Equivalent Permeability in Lugeons, the water percolation test in each test will be carried out at five test pressures, three in increasing order and two in decreasing order. These tests can be used to assess the amount of grout that rock will accept and to obtain a measure of the amount of fracturing of rock and to decide on the seepage control measures.

4) **Exploratory Test Pit**

The required number of Test pit shall be excavated on the project site; the location of trial Pits will be as per location shown in bore hole plan or as directed by the consultant representative at site. The exposed subsoil should be inspected and logged after Completion of excavation. The logging of subsoil profiles should be carried out by geotechnical engineer or engineering geologist in accordance with Code of Practice for Site Investigation. Sufficient quantity of soil sample for Proctor Compaction and CBR will be sampled from the trial Pits. Samples shall be stored in air tight or polythene bags and labeled with identification of Trail Pit number and depth. If ground water is found, it should be sampled and monitored to analyze the ground water conditions. On completion of the investigation on test Pit, Vender shall backfill all the test pit as directed by the consultant representative. The geotechnical logs of trial pit together with photographs should be presented in geotechnical investigation report.

5) **LABORATORY TESTS**

All the laboratory tests of representative soil and rock core samples from the bore holes as outlined in the scope of work will be carried out at well-equipped soil testing laboratory under the supervision of well qualified and experienced geotechnical engineer in accordance with technical specifications of relevant Indian Standard code. Laboratory tests shall be carried out on samples collected from bore holes in compliance with IS code includes but not limited to:

- **Soil samples:** Grain Size Analysis, hydrometer analysis, liquid limit, plastic limit, specific gravity tests, Natural Moisture content, Natural dry density/field density, Atterberg's limits, cohesion, friction, natural density, compressible characters of soil Shear strength characteristic by conducting Box shear test/ consolidated undrained triaxial shear test as per the IS codes, *Proctor Compaction and CBR (Soaked and Unsoaked)Tests, Chemical analysis of soil – pH, Chloride and sulphate content.*
- **Sub-Soil Water Samples:** *Chemical analysis of water – pH, Chloride and sulphate content*
- **Rock Samples:** Uniaxial compressive Strength, Specific Gravity, Porosity, water absorption, dry density, Point Load Index, modulus of elasticity and

Poisson's ratio tests should have conducted on rock core samples and the results should be presented in report.

6) REPORTING

Analysis and interpretation of field & laboratory test data and preparation of Geotechnical investigation report should be carried out by professional geotechnical engineer or engineering geologist in accordance with code mention above. Analysis of each borehole should be done separately; Calculation of bearing capacity for each building block should be made separately as well make recommendation of foundation type for each building separately.

The report should contain Regional Geology of the Site, Seismicity of the region, Details of Field Investigation lab test Performed, subsurface condition and characteristics of strata including details of ground water condition, Underlying soil description with geological profile of the site. The recommended bearing capacity and types of foundation along with findings and test result summary will include in report and all the field and lab test result including bore logs should be presented.

Submission of draft report in 1 copy with one soft copy and final reports in 3 copies with one electronic files should be submitted in CD-ROMs. Submission of the final reports does not relieve the Vender from their responsibility; they shall bear full responsibility for: Authenticity of all the field test and lab test data, including analysis, computation of bearing capacity and recommendation of foundation type and Correctness of any other details related to job. If needed, Geotechnical engineer or engineering geologist carried out the work should be available to defend the report during approval form GETCO, Circle office, Anjar

SECTION: E

APPENDICES

To be Submitted by Contractor by filling the details on its own Letter Head

APPENDIX –I

TENDERER'S EXPERIENCE

A List of Similar jobs executed by the Contractor & Name with address of a Person whom reference can be made, by the Corporation, if required necessary.

[Tenderers shall submit the information in the Format detailed here under]

Sr. No	Description of Work	Value Of Work Executed Rs.	Construction Period as per Contract	Actual Construction Period for the Completion of the work	Date Of Completion	Client	Persons to whom Reference may be made	Principal Features
1	2	3	4	5	6	7	8	9

Contractor's Representative legible signature: _____

Name of the person: _____

Seal of the company

Date & place:

APPENDIX – II
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 . N o	Name of work with location and address	Work in hand			Work Tender for			Remarks
		Tender Cost	Cost of Remaining work	Anticipated Date of Completion	Estimated Cost	Date when decisio n Is Expect ed	Stipulate d Date or period Of Completi on	
1	2	3	4	5	6	7	8	9

Contractor's Representative legible signature: _____

Name of the person: _____

Seal of the company

Date & place:

APPENDIX-III

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. 1	Description &Details of position 2	Name 3	Qualification 4	Professional Experience & details of works carried out 5	Remarks 6

Contractor's Representative legible signature: _____

Name of the person: _____

Seal of the company

Date & place:

APPENDIX-IV

TENDERER'S DETAILS OF MACHINERY

	Description & Details machinery	Capacity	Numbers	Make	Remarks
(a)	(b)	(c)	(d)	(e)	(f)

Contractor's Representative legible signature: _____

Name of the person: _____

Seal of the company

Date & place:

APPENDIX-V

PERFORMA, SHOWING THE DETAILS OF SITE VISIT DONE BY AGENCY BEFORE QUOTING THE TENDER.

[Tenderers shall submit in the Format detailed here under]

Sr. No.	Name of firm	Name of Authorized representative of firm who has visited the site.	Qualification	Designation / post holding in company.	Remarks.
(a)	(b)	(c)	(d)	(e)	(f)

Contractor's Representative legible signature: _____

Name of the person: _____

Seal of the company

Date & place:

APPENDIX – VI

Qualification Requirement.

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

Sr No:	List of Documents	
1	Registration	Class – with valid up to
2	P.F. No.	GJ/
3	Partnership deed/Proprietor (Notarized copy)	
4	Power of Attorney (Notarized copy)	
5	I.T return, Bl. Sheet / P&L A/C, Statement of last three years.	
6	Latest Solvency certificate.	Rs. Lacs issued by Bank, branch dtd.
7	GST Registration No.	
8	PAN NO	
9	Experience certificate – form 3A of last 5 years (minimum value of similar work done should be equal to or more than 50% of estimated cost	

Signature of Tendered

Date:

Place

Company's Round Seal

Signature of Contractor

98 | Geo. investigation of 66kV Mundra-Mundra IND line (Anj/Civil/E-Tn/99/2026)

APPENDIX – VII
Qualification Requirement.

1.	PRICES: [FIRM ONLY] (Please Specify YES / NO.)	
2.	PENALTY TERMS AGREED (Please Specify YES / NO.)	
3.	SECURITY TERMS AGREED: (Please Specify YES / NO.)	
4.	TERMS AGREED: (Please Specify YES / NO.)	
5.	VALIDITY Of the offer for 180 DAYS From the date of opening of the Technical Bid: AGREED: (Please Specify YES / NO.)	
6.	PAYMENT TERMS AGREED: (Please Specify YES / NO.)	
7.	MOBILE NOS., TELEPHONE NOS. & FAX NO:	
8.	Authorized person of the firm:	
9.	Name of the proprietor, partners, directors [as the case may be], along with address, telephone, fax no. etc.	

Contractor must fill up below details

Signature of Tenderer
Date :
Place

Company's Round Seal

Annexure-VIII**Details of the Firm**

Name of the Firm		
A		
1	Address of registered office	
2	Contact personnel	
3	Designation	
4	Residential Address	
5	Phone No.	
	Office	
	Residential	
6	Fax No.	
7	Telegraphic code	
8	E-mail address	
B		
1	Address of WORK	
2	Contact personnel	
3	Designation	
4	Residential Address	
5	Phone No.	
	Office	
	Residential	
6	Fax No.	
7	Telegraphic code	
8	E-mail address	

Signature of Tenderer

Date :

Place

Company's Round Seal

Signature of Contractor

100 | Geo. investigation of 66kV Mundra-Mundra IND line (Anj/Civil/E-Tn/99/2026)

GUJARAT ENERGY TRANSMISSION CORPORATION LTD.**SCHEDULE B**

Name of Work: Geo Technical Investigation for 66kV Mundra-Mundra IND line tower with embankment work at difference location, Ta. Mundra Dist. Kutch under Anjar AM Division under Anjar AM Circle

SN	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	Earthwork for embankment including breaking clods, dressing with all lead and lift and including watering rolling and consolidation of subgrade in layer at O.M.C to required dry density including filling the depression which occurs during the process using power roller 8TR to 10T. (E) from borrow area within 3.00Km lead.	Cmt	695.00	176.15	1,22,424.25
2	Drilling of 100mm dia. and 10.00 Rmt deep bore hole , collecting sample of undisturbed soil and performing test in laboratory necessary for arrangement of safe bearing capacity including test of tri axial test, direct shear test, liquid limit, plastic limit, grain size distribution including noting all readings/dates figures plotting relevant graphs curves and sketches for arriving of conclusions, interpreting various plots and preparing reports and submitting 3 (Three) colour copies of report with clear figures of safe bearing capacity including cost of all labors, tools, plants etc. and there mobilization/transportation including showing coordinates plot plan and location of bore if necessary. The soil consultant shall in variably indicates the n-values & SBC values at every 0.50m depth interval and as per EIC	No	7.00	20170.00	1,41,190.00
3	Drilling of 100/150 mm dia. and 10.00 to 20.00 Rmt deep bore hole , collecting sample of undisturbed soil and performing test in laboratory necessary for arrangement of safe bearing capacity including test of tri axial test, direct shear test, liquid limit, plastic limit, grain size distribution including noting all readings/dates	No	7.00	22670.00	1,58,690.00

	figures plotting relevant graphs curves and sketches for arriving of conclusions, interpreting various plots and preparing reports and submitting 3 (Three) Colour copies of report with clear figures of safe bearing capacity including cost of all labors, tools, plants etc. and there mobilization/transportation including showing coordinates plot plan and location of bore if necessary. The soil consultant shall in variably indicates the n-values & SBC values at every 0.50m depth interval and as per EIC				
4	Drilling of 100/150 mm dia. and 20.00 to 30.00 Rmt deep bore hole, collecting sample of undisturbed soil and performing test in laboratory necessary for arrangement of safe bearing capacity including test of tri axial test, direct shear test, liquid limit, plastic limit, grain size distribution including noting all readings/dates figures plotting relevant graphs curves and sketches for arriving of conclusions, interpreting various plots and preparing reports and submitting 3 (Three) Colour copies of report with clear figures of safe bearing capacity including cost of all labors, tools, plants etc. and there mobilization/transportation including showing coordinates plot plan and location of bore if necessary. The soil consultant shall in variably indicates the n-values & SBC values at every 0.50m depth interval and as per EIC	No	7.00	24500.00	1,71,500.00
				Estimated cost	5,93,804.25
				Add 18.00% GST	1,06,884.77
				Total estimated cost Incl.18% GST	7,00,689.02
				Add 1% Welfare cess	7,006.89
				Total estimated cost Incl.18% GST & 1% welfare cess	7,07,695.91

Note:-

- The required approach road, floating plate form, cofferdam etc. if any required to execute the said works in worst condition like in rainy/under water/muddys etc. situation the contractor has to arranged at his own cost.
- The required equipment, materials & labour etc. transportation is also to be done in any situation by agency at his own cost & risk. No any separate (Extra) item and extra rate given to execute this work.

- To execute the said work, agencies are requested to visit the site & quote the rate accordingly

**Superintending Engineer (AM)
AM Circle, ANJAR**

I/We have read and clearly understood the terms, conditions, Schedule 'B' and Technical specifications put by GETCO on WEB site. I/We hereby accept all the conditions and specifications of this tender document, and accordingly, I/We am/are willing to carry out the work at _____% (in words _____percentage) above/below the estimated cost. Accordingly, the total amount of my/our tender works out to Rs. _____ (Rupees _____)

SIGNATURE OF CONTRACTOR.
(With rubber stamp/seal of the company)

Application for refund of EMD
(on Contractor Letter Pad)
Submitted in Hard copy

To,
The Superintending Engineer (AM)
Transmission Circle office
Anjar
GETCO

Sub: - Application for refund of EMD

Respected Sir,

I request your good self to refund my EMD for the tender mentioned below as soon as the price bids are opened and if I/We am/are not the L1 for the same. The details are as under...

Tender No.	Anj/Civil/E-Tn/99/2026
Tender ID	
Name of Work Sub-etc.	<i>Geo Technical Investigation for 66kV Mundra-Mundra IND line tower with embankment work at difference location, Ta. Mundra Dist. Kutch under Anjar AM Division under Anjar AM Circle</i>
EMD Amount	
EMD) DD No., Date & Name of Bank	
Name of Bidder	
Contact No.	
E-mail address	
Bank detail for RTGS into which EMD is required to be refunded	

Thanking you,

Faithfully yours,
Name & Seal of Bidder)