



## Gujarat Energy Transmission Corporation Ltd.

Transmission Circle Office, Near 66kV Sub-station, Keriya Road,  
Amreli – 365 601.

e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



### E-TENDER FOR THE WORK OF

**Addition & Altration Work For SNCU Ward At Sub-District Hospital, Rajula Ta. Rajula Dist. Amreli under GETCO'S Corporate Social Responsibility (CSR)**

### Index

- Tender Notice.
- Integrity Pact.
- Instructions to Bidder
- Qualification Requirement
- Conditions of Contract
- General Conditions of Contract
- Standard Field Quality Plan.
- Technical Specifications.
- Forms & Appendices to be filled in by the bidders.
- Technical Specifications for Civil Works, **Electrical Works, & Fire System.**
- Schedule - B



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### **TENDER NOTICE No. TCAL/CMC/CIVIL/CSR/SNCU/160/2023-24 (2<sup>nd</sup> Attempt)**

The Superintending Engineer (TR.), Amreli invites “On line Tenders” (e-tendering) for the “**Addition & Altration Work For SNCU Ward At Sub District Hospital, Rajula Ta. Rajula Dist. Amreli under GETCO’S Corporate Social Responsibility (CSR)**” 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://getcotender.nprocure.com> (For view, down load and on line submission) and GUVNL/GETCO web sites [www.gseb.com](http://www.gseb.com) & [www.getcogujarat.com](http://www.getcogujarat.com) (For view & download only). All tender documents (Notarized / self-attested copies of original – as specified in tender document) are to be uploaded through online only (mandatory) on (n) procure portal including scanned copy of duly attested Tender fee receipt, EMD fee receipt, Integrity pact and attested tender documents with technical specification & other mentioned documents in qualification requirement.

Sr. No.	Name of Work	Tender Cost Rs.	Time Limit	Tender Fee Rs.	E.M.D. Rs.	Appropriate class
TCAL/C MC/ CIVIL/ CSR/ SNCU/ 160/ 2023-24 (2nd At-tempt)	Addition & Altration Work For SNCU Ward At Sub District Hospital, Rajula Ta. Rajula Dist. Amreli under GETCO'S Corporate Social Responsibility (CSR)"	48,40,155.55/- (With 18% GST and 1% Well-fare Cess)	06 Months	1770/- [1500 + 270 (GST @ 18.00% )]	48,400.00/-	Class- E1 & above
1	On line (E-tendering) tender/ offer submission last date up to 18.00 hours only (This is mandatory)				14.12.2023	
2	Date of opening of Preliminary & Technical Stage (online opening) at 17.00 Hours.				16.12.2023	
3	Tentative Date of on – line opening of Price bid				Shall be intimated separately.	
Note*	Payment of Tender Fee as well as EMD Shall be accepted through RTGS/NEFT mode Only.					

#### **IMPORTANT:**

- Bidder has to upload scanned copies of original (Notarized / self-attested copies of original – as specified in tender document) documents with bid and no physical documents to be submitted by bidder.**
- All such documents should be strictly submitted through online uploading. Otherwise the offer will not be considered and no any further communication in the matter will be entertained on or before due
- Quality Assurance



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date of submission. **NO PHYSICAL DOCUMENTS TO BE SUBMITTED BY BIDDER. EMD and TENDER FEE SHALL BE PAID THROUGH NEFT or RTGS ONLY.** However, of anywhere in tender documents submission of other than this document physical submission mentioned to be overlooked.

3. Tender Fee & EMD amount should be paid by **online payment mode only**. Tender fee & EMD by RTGS/NEFT shall be encouraged. After the payment through RTGS/NEFT bidder has to mail following details to [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com), [aotr.amreli@gebmail.com](mailto:aotr.amreli@gebmail.com), & [decivilamrco.getco@gebmail.com](mailto:decivilamrco.getco@gebmail.com).

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

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

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

#### 4. GETCO Beneficiary Bank detail is as under:

1	Name of Account Holder	The Superintending Engineer, TR GETCO, AMRELI
2	Account No.	31690479584
3	Name of Bank	STATE BANK OF INDIA
4	Branch Code	60030
5	Address of Bank	LIBRARY CHOWK- AMRELI
6	IFSC Code	SBIN0060030

5. In case short submission of documents with bid and / or clarification if any required from the bidder, the required details / documents may be asked from bidder in physical form.
6. It shall be sole responsibility of the bidder that the uploaded scanned documents (in PDF from) remain legible and should not be password protected.
7. 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 receipt, EMD fee receipt & Integrity Pact.**
8. Tender will be evaluated on Data / Details / Documents of the online offer only.
9. 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



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- 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. The Earnest Money Deposit and tender fee will be accepted by NEFT/RTGS in the favour of "GUJARAT ENERGY TRANSMISSION CORPORATION LTD, Amreli," and 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..
  13. 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 (TR.), GETCO, Near 66KV Amreli S/S, Keriya Road, Amreli-365601.**

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

Yours faithfully,

Superintending Engineer (TR.)  
GETCO,C.O. Amreli

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



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### **GUJARAT ENERGY TRANSMISSION CORPORATION LIMITED - VADODARA**

Date:

#### **INTEGRITY PACT - OUR ENDEAVOUR**

**Name of Work:** Addition & Altration Work For SNCU Ward At SDH Rajula Ta. Rajula Dist. Amreli under GETCO'S Corporate Social Responsibility (CSR)

**Ref:** TCAL/CMC/CIVIL/CSR/SNCU/160/2023-24 (2<sup>nd</sup> Attempt)

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.

<b><u>GETCO COMMITMENT</u></b>	<b><u>PARTY'S COMMITMENT</u></b>
○ 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 view-point 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/contractors in completion of agreement/contract/work order.	○ Not to enter into carter/syndicate/understanding whether formal/non formal so as to influence the price.
<b>Seal &amp; Signature</b> <b>(GETCO Authorized Signatory)</b> <b>Name:</b> <b>Designation :</b>	<b>Seal &amp; Signature</b> <b>(Party's Authorized Person)</b> <b>Name:</b>



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## **PART.II** **Technical Specification & Commercial Conditions**



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## ***SECTION – A INSTRUCTIONS TO THE BIDDERS***





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### **(A) INSTRUCTIONS TO THE BIDDERS**

#### **(A1) SCOPE OF WORK :**

#### **Addition & Altration Work For SNCU Ward At SDH Rajula Ta. Rajula Dist. Amreli under GETCO'S Corporate Social Responsibility (CSR)**

- 1) The site of proposed work is situated at **Amreli TR Circle Jurisdiction**. The works shall be carried out as per tenders 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, 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) either by Online Payment NEFT/RTGS only** for the amount as specified in the tender notice. **Payment of EMD in form of Cheque or DD or any other forms other than NEFT/RTGS shall not be accepted. EMD and Tender Fee NEFT/RTGS with different purchaser or agency shall not be accepted.**
- 2) The EMD shall be paid submitted/attached along with **uploading** of Technical bid only. In no case it shall be submitted with sealed cover or in other form like DD, Cheque, etc.
- 3) Tenders not accompanied by EMD shall be rejected.
- 4) If during the tender validity period, i.e. **180 days**, the tenderer 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 tenderer. The EMD will be returned to **the successful tenderer** after he furnishes the Security Deposit for performance and duly enters in to the contract. If he fails to furnish the SD or to execute the contract for the work offered to him, his EMD shall be forfeited and the tenderer may be disqualified from tendering for further works for GETCO.

#### **(A) Guarantees issued by the following Banks will be accepted as SD on permanent basis.**

- ❖ All Nationalized Banks.

(B) Guarantees issued by following Banks will be accepted as SD /EMD **for the period up to 31 March, 2024** Or the issuance of new Government Resolution on the same subject which-ever is earlier. The validity cut – off date in GR is with respect to date of issue of Bank Guarantee is irrespective of date of termination of Bank Guarantee.





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No.	Bank Name	No.	Bank Name
1	A U Small Finance Bank	17	Nutan Nagrik Sahakari Bank Limited
2	Ahmedabad Mercantile Co. Operative Bank Limited	18	Rajkot Nagrik Sahkari Bank Limited
3	Axis Bank	19	SVC Co-Operative Bank LTD
4	City Union Bank	20	Saraswat Co-operative Bank
5	DBS Bank India Limited	21	Saurashtra Gramin Bank
6	DCB Bank	22	Standard Chartered Bank
7	Equitas Small Finance Bank	23	Tamilnadu Mercantile Bank
8	Federal bank	24	The Gujarat State Co-operative Bank
9	HDFC Bank	25	The Mehsana Urban Co-operative Bank Limited
10	ICICI Bank	26	The Surat District Co-operative Bank
11	IndusInd Bank	27	The Surat Peoples Co-operative Bank
12	Kalupur Commercial Co-operative Bank Limited	28	Utkarsh Small Finance Bank
13	Kotak Mahindra Bank	29	HSBC Bank
14	Bandhan Bank	30	Karnataka Bank
15	BNP Paribas	31	Karur Vysya Bank
16	CSB Bank	32	South Indian Bank

### (A3)(a) COMPLETION PERIOD:

“The time limit for the completion of the above work will be **06(Six) calendar months** from the commencement of the work, which will be reckoned on the 10<sup>th</sup> day of issuance of LOL.”

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

✓ if entire duration falls between 1<sup>st</sup> July to 31<sup>st</sup> 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 1<sup>st</sup> July and 31<sup>st</sup> October.



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**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 DISCOM 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 10<sup>th</sup> day of LOI.
- ❖ Any delay in making the application for temporary power connection beyond initial 5 days shall be on account of bidder.

### **(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 Transmission Circle, Amreli 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 payable at **Amreli** 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.

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.

### **(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 there of. Tenders departing from the technical Specification or the method of bidding in a radical manner may also be rejected.



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- 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 (TR), Gujarat Energy Transmission Corporation, Transmission Circle office, Amreli.**
- 6) **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.**

### 6A: Goods and Service Tax (GST)

The rates 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 service from time to time which will be paid extra on a given taxable goods and/or services.

The amount and % of GST should clearly be indicated separately. GST means all applicable tax 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)

### 6A-2: STATUTORY VARIATION:

Any statutory increase or decrease in 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 company's account subject to the claim being supported by documentary evidence. However, if any decrease takes place after the contractual delivery date the advantage will have to be passed to the company.

### 6A-3: DEDUCTION OF TDS UNDER GST:

**"As per provisions of GST Act, TDS under GST @ 2% (1% CGST & 1% SGST or 2% IGST as applicable) or at the applicable rate from time to time, will be deducted from the bill of suppliers/contractors at the time of credit or payment. TDS Certificates in the prescribed format will be issued as per the prescribed rules under GST."**

### 6B 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 progressive basis of uti-



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lization. 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.

### 6C 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) 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.
  - 8) 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.
  - 9) The percentage quoted shall include cost towards of all materials, & machinery including equipments, fixtures, labour, constructional equipments, 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.
  - 10) 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.
  - 11) The contract or any part thereof shall not be subject to change without the written permission of the **Superintending Engineer (TR), Gujarat Energy Transmission Corporation, Transmission Circle office, Amreli** or his authorized representatives.



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- 12) 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.
  - 13) Further information required, if any, can be had from the office of the **Superintending Engineer (TR), Gujarat Energy Transmission Corporation, Transmission Circle office, Amreli**, Gujarat Energy Transmission Corporation, Head Office, Vadodara. But it must be clearly understood that the tenders must be received complete in every respects by the due date & time.
  - 14) The notice inviting tender, general instructions to the contractors & all documents of this tender shall form part of the contract.
  - 15) 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.
  - 16) 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.
  - 17) 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.
  - 18) **Once the offer submitted will not be returned back for any reason thereof in any case.**
  - 19) 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.
  - 20) 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.
  - 21) 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.
  - 22) 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.
  - 23) 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.
  - 24) 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 entertained on this account.
  - 25) 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.  
No extra payments shall be admissible towards such costs. On completion, this shall be cleared if asked by GETCO at no extra cost.
- 13 Quality Assurance





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- 26) Gujarat Energy Transmission Corporation shall not entertain idle charges for any site conditions or any circumstances.
- 27) 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.
- 28) 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.
- 29) **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.
- 30) 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.
- 31) 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.
- 32) These rules and directions shall form part of the contract.
- 33) **Drawings:** Drawings required for the works are available with the E.E. (Civil) of Circle Office **Amreli/Corporate Office, Vadodara**. 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.
- 34) **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.
- 35) 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.



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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.

In no case, GETCO is bound to supply water if the ground water sources are not available at site within premises.

- 36) **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 wish to submit.
- 37) 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.
- 38) 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.
- 39) 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.
- 40) **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 there of. 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 NEFT/RTGS**
  - 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.





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## ***SECTION- B*** ***Qualification Requirement***



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### **(B) Qualification Requirement**

- 1) **Registration** : Bidder quoting for the bid shall have registration for **Civil & Electrical work** in appropriate class with GETCO/Central/State Government / Railway/Semi. Govt. Organizations.
- 2) **Experience** Bidder should have experience of similar work including Civil and Electrical work 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 5 years. Attested Xerox copy of work orders executed 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) **Provident Fund Code**: Separate provident fund code number towards firm registered with Regional P. F. Commissioner.
- 5) **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.
- 6) **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**.
- 7) **Goods & Service Tax (GST) Registration**: The Bidder shall be registered under the GST Act and a certified copy of such registration under the GST act indicating the GSTIN shall have to be submitted along with the bid by the bidder.
- 8) **I.T. PAN CARD**: The bidder should submit the attested zerox copy of PAN Card of their firm.

**All the documents to be submitted in soft copy shall be self-attested/notrized**

Signature of Contractor

Superintending Engineer (TR)  
GETCO, TR.C.O., Amreli



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### CHECK LIST OF DOCUMENTS SUBMISSION

TABLE-A		
Mandatory to upload on-line only (pdf file)		
No.	Particulars	Check Mark
1	Scan Copy of Tender Fee Amount / Online payment receipt	
2	Scan Copy of EMD Amount / Online payment receipt	
3	Registration document as Approved Contractor in Appropriate Class-for Civil Work	
4	Attested Copy of Work Order Including Schedule-B & Completion certificate in Form No.3A of that work (Experience Certificate as main contractor) only as Per Qualification Requirement	
5	Bank Solvency Certificate	
6	Provident Fund Code Number Documents	
7	GST Registration Number Documents	
8	Income Tax Return, Certified Profit Loss Accounts and Balance sheet of Last Three Financial Years	
9	Nature of Firm:	
	Partnership deed/Latest Form-G/ POA/Authorized Signatory Certificate for Partnership	
	Self-Affidavit/POA/Authorized Signatory Certificate for Proprietorship	
10	PAN Number Document	
11	Scan of Self-attested copy of Tender document including technical specification i.e. signed on each pages (preferably digitally signed)	
12	Filling Annexure/Appendices 1 to 7	
13	Declaration Of Conflict On Interest	
14	Declaration Of Relationship with employee	
16	Undertaking in regard to Stop Deal/Banned for Business dealing/Black list	
17	Valid Electrical Contractor License	



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

We, Shri \_\_\_\_\_ (names of all partners and 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 up to 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 against us / partnership firm. GETCO shall be empowered to stop-deal and /or black-list our firm for any contract, at 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, assigness, executors etc.

Hence solemnly affirmed on this \_\_\_\_\_ day of \_\_\_\_\_ months of 20\_\_\_\_ at \_\_\_\_\_.

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

**Dated:**

**Place:**



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### 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.

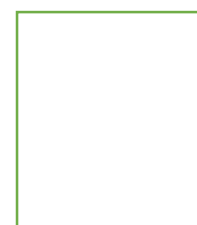
The signature appearing in the contract agreement is signed by me and is true.

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

Place:

Date:

Deponent





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## **SECTION – C** **GENERAL CONDITIONS OF CONTRACT**



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### **(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 “CE ” 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.
- j) 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.
- k) 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.
- l) “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.
- m) 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.





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- n) '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 % as Security Deposit;. The Bank Guarantee from schedule bank in lieu of cash or government securities towards Security Deposit will be accepted providing amount of Security Deposit payable exceeds Rs. 10,000/- .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 encash for that purpose) or from the interest of any such securities of from any sums due or which may become due to the contractor by the Corporation or from EMD the whole or the balance unpaid as aforesaid of the encash 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/DPC Treatment:-**

The contractor shall also submit performance guarantee of the *China Mosaic* item at the rate of 20% of cost of item of work order for a period of 5 years from actual date of completion of work on stamp paper of appropriate value in approved format of GETCO. **The agency has to give the consent to deduct the 20% of cost of item of work order for a period of 5 years from actual date of completion from his bill. The 20% amount of cost of item of work order shall be withheld as a performance guarantee for five years.** In case 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 withheld amount will be encashed by GETCO. The retention amount shall be released only after satisfactory completion of performance period of 5 years."

### 3. Penalty 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 on the 10<sup>th</sup> day of issuance of LOI. The work shall throughout the stipulated period of contract proceeds with due diligence (time being deemed to be essence of contract) and for delay, the contractor shall pay compensation @ 0.5% plus taxes as applicable per week or part thereof on delayed portion subject to maximum 10% plus taxes as applicable of the Total contract value of the civil works (End cost with taxes & cess as applicable). For calculating the delayed portion, date of work completion mentioned in work completion certificate shall be considered.

**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**



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**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.
- d. 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



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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 not withstanding 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.



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### 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 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



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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 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 workman-like 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





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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



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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





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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

30 Quality Assurance



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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 day's 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 if 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.



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### 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:

- 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.
- 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.
- 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.
- Preclude the Corporation from getting the work done by another agency.



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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 there fore 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% plus GST as applicable . 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 form the contractor at the market rate or stock issue rate whichever be higher at the time of materials account plus 15% plus GST as applicable.

### 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



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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 there 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 extend 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 through out 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 are as 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).





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- 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.
- 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 employees 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 workers 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.



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### 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.

The Corporation reserves the right to terminate this rate contract at any time during it tendency without giving notice of termination or any reasons thereof.

The Corporation will be entitled to deduct directly form 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.

Nothing in the contract document stated shall 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 staring 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.





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e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



### 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 (TR)  
GETCO, TR., C.O, Amreli.



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Transmission Circle Office, Near 66kV Sub-station, Keriya Road,  
Amreli – 365 601.

e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



### (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 programme 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.**

- a) 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.
- b) 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.
- c) 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.
- d) 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.
- e) 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



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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 & thereby 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.



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### 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, equipments, materials, & labour 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. Contactor not to dispose off soil etc.:

The contractor shall not sell or otherwise dispose off 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 off 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.



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### 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:

**14.0.1** 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 other wise 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.

**14.0.2** 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 sub contractor, or to the third parties under paragraph (a) 2 or condition no.47 to the extent of any sums recovered under the insurance policy.

**14.0.3** 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. Liability for damage to works & materials:

**14.0.4** 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





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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.

**14.0.5** Further the contractor shall, at all times, protect & preserve all materials, machinery, equipments, 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.

**14.0.6** 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.

**14.0.7** 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 near by, occasioned by the negligence of the contractor or his workmen, or his subcontractor, or by defective / ill methods of working.

**14.0.8** 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 off by him as he may think fit.

### 15. 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 other wise 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.





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### 16. 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 by 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.

### 17. 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 other wise 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. Any levy of GST on such compensation payable to GETCO shall be on contractor's account.

### 18. Cleaning up:

**18.0.1** The contractor shall at all time keep the construction areas & his labour colony & storage areas free from accumulation of waste, or rejected materials.

**18.0.2** 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.

### 19. Contractor's inventory of equipments & machinery:

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

**19.1 Progress Schedule:** Contractor shall furnish a Construction Schedule on receipt of LOI or Work Order which ever 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



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& procurement of equipments, 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.

**19.2:** 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.

**19.3:** 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.

**19.4** The progress schedules shall be in the form of bar charts, statements &/or reports as may be necessary & directed by the Corporation's representatives.

**19.5.1 Unsatisfactory Progress:** In the case of unsatisfactory progress by the contractor not proceeding as per the Scheduled Programme 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".

### Recoveries:

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. (a) Penalty, if Leviable,

Expenditure, in full, incurred by the Corporation on contractor's behalf in labour, machinery, equipment etc.,

- (c) Charges for services such as water & power supply, etc. in full,
- (d) Hire charges for Corporation's or Government machinery if any,
- (e) Other recoveries not specifically mentioned but recoverable.
- (f) GST as applicable on recoveries due from the contractor enlisted as above.

## 20. 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



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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.

### 21. 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.

### 22. 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.

### 23. Other contractors:



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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/equipments 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.

### 24. 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.

### 25. Contract document & matters to be treated as confidential:

All documents, correspondence, decision & other matters concerning the contract shall be considered as of confidential & restricted nature by the contractor & he shall not divulge or allow access there to any unauthorized persons of any kind.

### 26. 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.

### 27. 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.

### 28. 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.



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### 29. 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 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.

### 30. 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.

### 31. Labour conditions:

**31.1** 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.





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e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



**31.2** The contractor shall as far as possible obtain his requirements of labour, skilled & unskilled from the local areas.

**31.3** 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.

**31.4** 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.

**31.5** 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.

**31.6** 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.

**31.7** The implementation of any & all provisions of this clause in no way entitles the contractor to claim in this contract.

### 32. Local Laws:

32.1 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.

### 33. Performa returns:

The contractor shall maintain proforma, charts & details regarding machinery, equipments, materials labour, personnel & other matters as may be specified by the Corporation time to time.

### 34. 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.

### 35. 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, equipments used by the contractor or subcontractor whether at the site or elsewhere. Damage to contractors tools machinery construction equipments form works, scaffolding materials etc. due to floods, earthquake or any such cause.





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Damage to the existing permanent structures of the Corporation & nearby villages, equipments 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.

### 36. 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.

### 37. 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."

### 38. Relationship with employee:

Every bidder, at the time of submission of bid. Give a declaration as under

"If any bidder company/firm, the interest (i.e. Shareholding in Company and share in partnership firm) of any employee of the tendering company or his/her relative as defined in Section 2(77) of the



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Company's act 2013 is 10% or more, the tendering Company will not deal with such Company/Firm at all.

Tendered therefore, must specifically disclose this fact in his technical bid. Non-disclosure of such facts would immediately disqualify the tenderer for further dealing with the tendering company.

### 39. Conflict of Interest among Bidders/ Agents

A bidder shall not have conflict of interest with other bidders for particular quoted item. Such conflict of interest can lead to anti-competitive practices to the detriment of Procuring Entity's interests. The bidder found to have a conflict of interest shall be disqualified. A bidder may be considered to have a conflict of interest with one or more parties in this bidding process for particular quoted item, if:

- a) they have proprietor/ partner(s)/ Director(s) in common; or
- b) they receive or have received any direct or indirect subsidy/ financial stake from any of them; or
- c) they have the same legal representative/ agent for purposes of this bid; or
- d) they have relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another bidder; or
- e) bidder participates in more than one bid in this bidding process. Participation by a bidder in more than one Bid will result in the disqualification of all bids in which the parties are involved. However, this does not limit the inclusion of the components/ sub-assembly/ assemblies from one bidding manufacturer in more than one bid.
- f) in cases of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorise only one agent/ dealer. There can be only one bid from the following:
  1. The principal manufacturer directly or through one Indian agent on his behalf; and
  2. Indian/ foreign agent on behalf of only one principal.
- g) a Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the contract that is the subject of the Bid;
- h) in case of a holding company having more than one independently manufacturing units, or more than one unit having common business ownership/ management, only one unit should quote. Similar restrictions would apply to closely related sister companies. Bidders must proactively declare such sister/ common business/ management units in same/ similar line of business.
- i) Bidder shall not act in contravention/ violation to the provisions of competition act, as amended from time to time.

Every bidder should, at the time of submission of bid, give a declaration, that bidder shall not have conflict of interest with other bidders, as above.

### 40. Use of Call before you dig(CBUD) App

All the excavators/excavating agencies engaged by "GETCO(Gujarat Energy Transmission Corporation Limited) must self-register " Call Before you Dig (CBUD) app as excavator.  
All digging agencies/Contractors must be mandated to do any type of digging/excavation only after prior intimation through CBUD Mobile app.



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## ***SECTION –D TECHNICAL SPECIFICATIONS:***



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# 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
<b>1</b>	<b>MATERIAL</b>					
<b>A</b>	<b>CEMENT (FROM APPROVED LIST ONLY)</b>					
(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>B</b>	<b>COARSE AGGREGATES (FOR CONCRETE)</b>					
(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
<b>D</b>	<b>FINE AGGREGATE</b>					
(I) (ii)	Gradation /Determination of Particle size		IS: 383,IS: 2386,IS:	Govt. Approved Lab	In case of change of source of	B-3



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(iii)	Specific Gravity and density.	As per mix Design requirement	456		coarse& Fine aggregates, mix Design should be re-vised.	
(iv)	Moisture content					
(v)	Absorption Value					
(vi)	Bulking					
(vii)	Silt Content Test					
	Presence of deleterious materials					
E	<b>BURNT CLAY BRICKS</b>					
(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	<b>FLY ASH LIME BRICKS</b>					
(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	<b>SOLID CC BLOCKS</b>					
(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	<b>BELLA STONE</b>					
(i)	Water absorption	As per relevant IS	GETCO Specs. IS: 2386 Part 3	Govt.	To be approved by	B-3



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(ii)	Compressive Strength			Approved Lab	GETCO	
K	<b>WATER</b>					
(i)	Cleanliness (Visual Check)	Random	IS: 456,IS: 3025 and Specification. The Water used for mixing concrete shall be fresh, clean and free from oil, acids and alkalis, organic materials, or other deleterious materials	Contractor / GETCO	Each source to be Approved by GETCO	C
(II)	Chemical and physical properties of water for checking its suitability for construction purposes.	One sample per Source	IS: 456,IS: 3025 and GETCO Specification	Govt. Approved Lab		
L	<b>REINFORCEMENT STEEL (FROM APPROVED LIST ONLY)</b>					
(i)	Identification & size	Random	IS: 432,IS: 1139, IS: 1786 & GETCO Specification	Contractor should produce manufacturer's test Certificate. i.e. from approved Manufacturer.	Approved by GETCO.	B-3
(ii)	Chemical Analysis Test	One sample per Heat				
(iii)	Tensile Test					
(iv)	Yield stress\proof stress	One sample per Each size				
(v)	Percentage Elongation	One sample per Each size				
(vi)	Bend/Re-bend Test	One sample per Each size				
	Reverse Bend Test for HYSDWire	One sample per Each size		Govt. Approved Lab		
M	<b>STRUCTURAL STEEL</b>					





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(i)	Chemical Composition	One sample per Heat	IS :2062, IS :228, IS : 1608, IS : 1599, IS : 1757, IS : 10842	Govt. Approved Lab	Approved by GETCO.	B-3
(ii)	Tensile Strength	One sample per Each size				
(iii)	Yield Strength	One sample per Each size				
(iv)	Percentage Elongation	One sample per Each size				
(v)	Bend Test	One sample per Each size				
(vi)	Impact Test	One sample per Each size				
(vii)	Y Groove Crackability Test	One sample per Each size				
(viii)	Dimensions	Random				
0	<b>PVC WATER STOPS</b>					
(i)	Tensile strength	One sample per Each	IS : 15058, IS :8543 (Part4 / Sec 1), IS : 13360 (Part 5 / Sec 1), IS ; 9766 & GETCO Specification	Contractor should Produce manufacturer's test Certificate. i.e from approved Manufacturer.	Approved by GETCO.	B-3
(ii)	Elongation	One sample per Each				
(iii)	Hardness	One sample per Each				
(iv)	Water absorption,percentage by mass	One sample per Each				
(v)	Cold bend temperature at which sample does not crack	One sample per Each				
(vi)	Accelerated extraction test:	One sample per Each				
(vii)	(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	One sample per Each				



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	(c) Change in hardness at 7 days (d) Weight increase at 28 days (e) Weight decrease at 28 days (f) Dimension change					
P	<b>Bought out item ( shown as annexure – II )</b> 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
D	<b>P.C.C. PADDING</b>	For all locations	IS:456,GETCO Approved foundation Drawing & specification	Joint inspection By GETCO. And Contractor	Approval by GETCO.	C
E	<b>SHUTTERING</b> (Form work)					
	Check for materials, breakageOr damage Check for plumb, alignment Parallelism,squareness and equidistance from stubDimensional 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



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J	<b>PLACEMENT OF WATER STOP</b>					
(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	<b>CONCRETING</b>					
a	<b>APPROVAL OF MIX DESIGN.</b>	For each grade of Concrete.	IS: 456 & GETCO Approved specifications	Contractor	Approval by GETCO	B-3
b	Batching, mixing & placing of concrete and compacting	Random	IS: 456 & GETCO Approved drawings And specifications	Contractor	Approval by GETCO	B-3
	Placing concrete, and compacting	Random				
c	<b>CONCRETE TESTING</b>					
	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	<b>CONCRETE CUBE TESTING</b>					
	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 16-30 Cmt : 3 31-50 Cmt : 4 Above 50 Cmt : 4+1 additional for each additional 50 Cmt	Is:1199,IS:456, IS:516	Govt. Approved lab	To be witnessed for important structure (slab)& Approved by GETCO	B-3



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N	<b>PLASTERING</b>					
	Plastering thickness and evenness	Random	GETCO Specification	Joint inspection by GETCO	Approved by GETCO	C
	Mortar mix proportion	Random	GETCO Specification	and Contractor		
O	<b>FLOORING</b>					
(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%				
Q	<b>CURING FOR CONCRETE, MASONRY, PLASTERING ETC.</b>	100% on all locations	IS 5613 & GETCO Specification,.	Contractor.	Approval by GETCO	C
R	<b>ALLUMINIUM DOORS/WINDOWS</b>					
(i)	Check for size of different members	Random	IS : 733, IS: 1285, IS : 1868, & GETCO Specification	Joint inspection By GETCO. and Contractor and test report from Manufacturer	Approval by GETCO	B-2
(ii)	Check for weight of different members	Random				
(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%				
T	<b>GI PIPE FOR WATER SUPPLY</b>					
(i)	Check for weight as per diameter of pipe	Random	IS : 1239 & GETCO Specification	Joint inspection	Approval by GETCO	B-3



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(ii)	<b>Depth of excavation for pipe line</b>	Random		By GETCO. And Contractor		
(iii)	<b>Laying of pipe line as per layout given</b>	Random				
(iv)	<b>Fixing of pipe with clamps on walls</b>	100%				
(v)	<b>Watertight ness of joints</b>	100%				



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### **: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 (TR) of circle shall approve testing laboratory before accepting the test results from the lab.
6. SE (TR) of circle shall approve the sources for cement, coarse aggregate, fine aggregate & water before actual utilization.
7. All the testing & measuring equipments 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 aggregates 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 sit.

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.





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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 Rashtriyaspat Nigam or the rerollers approved by main producers.

The results of testing of cement and reinforcement steel referred in 12.1 and 13.1 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).



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### ANNEXURE-I

#### GUJARAT ENERGY TRANSMISSION CORPORATION LIMITED

Accepting and deviation dispositioning authorities for different Categories of checks as envisaged in field quality plan

Cate-gory	Type of Check	100%Checking/ witnessing by	Counter check/surveil- lance 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	D E (Quality Deptt)	E E (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)



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### **ANNEXURE-II**

#### **BOUGHT OUT ITEMS**

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

1. Cement.
2. Murrum or yellow earth for filling in yard or plinth.
3. Bricks/Block.
4. Reinforcement.
5. Structural steel.
6. Foundation bolts.
7. Fine aggregate.
8. Coarse aggregate for all type of concrete, WBM road and metal spreading in yard.
9. PVC water pipe line with fixtures.
10. PVC drainage pipe line with fixture.
11. PVC rain water pipe with fixture.
12. PVC casing pipe for bore well.
13. 4 mm thick flat copper cable for submersible pump
14. Teak wood for frame and shutter.
15. Aluminium door, window and ventilator.
16. FRP door.
17. Steel cup board shutter.
18. False ceiling material.
19. Glazed tiles.
20. Kotah stone and marble strips.
21. Vitrified tiles.
22. Granite or Marbo granite tiles.
23. Metallic hardener topping.
24. Paver concrete block.
25. Prestressed concrete cover for cable trench.
26. Oil bound distemper.
27. Acid/Alkali resistant paint.
28. Apex or equivalent exterior paint.
29. Epoxy paint for flooring in GIS room.
30. Rolling shutter.
31. Chain link fencing panel and angle.
32. Wash basin.
33. Orissa pan/European pan.
34. Glass mirror.
35. Marble year plate.
36. Towel rod for bath room.
37. Sliding gate.
38. RCC Hume pipe.(pressure/Non pressure).
39. Submersible pump for bore well.
40. Substation Sign boards.
41. Acrylic name plates.
42. MS cover for cable trench in control room/GIS room.
43. Ear thing strips.
44. Grout materials for foundation/flooring.



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e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



### **(D) TECHNICAL SPECIFICATIONS:**

#### **(D1) 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.



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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, falling 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 re-writing.

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.



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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.

### **(D2) 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. Cement and steel will have to be consumed of following makes only.

Sr.No	Name of manufacturer of cement	Sr.No	Name of manufacturer of cement
1	Narmada Cement Co.Ltd.	10	Laxmi Cement.





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2	Saurashtra Cement & Chemicals.	11	Ambuja Cement Co.Ltd.
3	J.K. Cement	12	Siddhi Cement
4	Shree Digvijay Cement Co.Ltd.	13	L&T (Ultra tech) Cement
5	Binani Cement	14	Jay Pee Cement
6	Vikram Cement	15	Coromondal king cement
7	HI Bond cement	16	Wonder Cement.
8	A.C.C. Cement	17	Tata chemical Ltd, Ahmedabad.(Tata Shudh Brand 53)
9	Sanghi Cement	18	Vadraj Cement Ltd., Surat(Vadraj Brand OPC53)
19	MP Birla Cement	20	NUVOCO cement (OPC 53) Valid till 25.10.2022

Name of manufacturer/Supplier of structural steel & TMT bars.

Sr.No	TMT Bars	Sr.No	Structural steel
1	Steel Authority of India	1	Steel Authority of India
2	Tata Iron & Steel Co. Ltd	2	Tata Iron & Steel Co. Ltd
3	Ispat	3	Essar steel Ltd.
4	M/S Nilkanth Concast Pvt. LTD.	4	Ispat
5	Electrotherm.	5	Shah Alloys Ltd,Ahmedabad
6	M/S Hans Inspat Ltd.(BarnalaTMT)		
7	Kamdheni TMT Sariya	24	Vibrant (TMT) Bar "Agaraval TMT Industries Ahmedabad Valid up to 06.04.2022
8	ASR Multi Metals Pvt.LTD.	25	Bhagya Laxmi rolling mills Ltd(Polaad TMT bar) valid up to 28.02.2023
9	Gellant TMT	26	Kothi GOLD ISI (TMT) Bars valid till 20.08.2023.
10	National TMT	27	STEEFO STEELS(TMT) Bar valid up to 03.05.2024.
11	RINL,VIZAG (Visakhapatnam)	28	K B TMT Bar Bhavnagar valid up to 31.01.2023.
12	Vishal Ispat,vapi(SARV SHAKTI TMT bar)	29	Metaroll( TMT) Bar-Jalana(MH) valid up to 31.11.2026.
13	Ashiana Rolling Mills, a'bad(Friend steel TMT bar)		
14	Gujarat NRE Coke Ltd.,Kutch(NRE TMT bar)		
15	Utkarsh bar Pvt. Ltd, Rajkot(Utkarsh TMT BAR)		
16	Shree Parmeshwar Steels Pvt. Ltd.,Ahmedabad.(GOD brand TMT bar)		
17	SRJ Petty steels Pvt. Ltd,Pune(Shree om 500TMT bars)		



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18	Vinayak TMT bars Ltd.,Sampa-Dehgam(Vinayak 500 TMT bars)		
19	Mono steel India Ltd,Gandhi-dham(Mono ISI TMT bar)		
20	Diamond TMT & Procon Pvt Ltd,Bhav-nagar(Diamond TMT 500 Bar)		
21	Haq steels Pvt. Ltd, Ahmedabad(GER-MAN TMX FE 500)		
22	M.D Inducto Cast Pvt.ltd.,Bhavna-gar(Rudra TMX TMT)		
23	H.K.Ispat (Kothi Gold ISI TMT) Valid up to 12.08.21		

In addition to above follwing manufacturer /supplier are approved for structural steel.

Sr.No	Name of Supplier/ manufacturer M/S	Item description
1	Mahavir Rolling Mills	All size of M.S. Angles, Flats
2	Electrotherm (India) ltd.A'bad	All size of M.S. Angles
3	Ambika Alloys & steels India Ltd. Visnagar	M.S.Angles Size 50x50x6mm to 100x100x6mm
4	Unique structure & Tower Ltd Rai-pur	M.S.Channel up to 125 x 65 mm, M.S.angle 35x35 to 110x110mm
5	Ambika iron & steel Re- Rolling Mills,Visnagar.	M.S.Angles 25x25x2 to 65x65x6mm,Flat size 20x5 to 100x12mm
6	Mid India Power & steel Ltd.Gandhidham	M.S.Beam up to 150x150mm M.S.Angles 65x65 M.S.Channel up to 125x65mm
7	Goyal Energy & steel Pvt.Ltd.Rai-pur	M.S.Equal angle 40x40x4/5/6 to 75x75x10mm.
8	Varsana Ispat Ltd. Gandhidham	M.S.Angle up to 65x65mm ISMB up to 150x150mm

### 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.



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- 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/ M-30 is 300 Kgs/320-Kgs/370Kgs/396Kgs 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.

### **(D3) 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 -do- but with both sides plaster in	1 SMT	0.2
	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	025
	-do- 40 mm thick	1SMT	0.35



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-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	1SMT	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	1NO	0.75
115 mm thick 40 mm IPS with 110mm. thick 1: 5: 10 bedding,		
7. RCC water tank 1000 liter. (1.2x1.2x0.9M with free Corporation)	1NO	0.75
- 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.	100RMT	4.0
100 mm - do -	100RMT	5.0
150 mm - do -	100RMT	7.0
10. Fixing W.C. Pan	1 No.	0.50
11. Gully trap with chamber or 300x300mm.	1NO	0.75
Nahni trap	1NO	0.05
12 50mm thick RCC shelf in C.C. 1:1 ½ : 3	1SMT	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 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	1NO	0.75



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wall.

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	1RMT	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.

### **(D4) TECHNICAL SPECIFICATIONS OF VARIOUS ITEMS:**

#### **Tolerance:**

Single pile 50mm in alignment group of piles – 75mm

#### **Concrete :**

- \* Grade M-30 or M-25 as specified. Aggregate size – 20mm down.
- \* Designed water cement ratio shall be maintained.
- \* Minimum cement content shall not be less than 370 kg. Per cu.mt. for M-25 & 396 kg. For M-30 cement concrete and slump of concrete should not be less than 150mm.

#### **Concrete Placing:**

The concreting shall be done by tremie with minimum diameter 200mm of pipe – when concreting is carried out under water, casing/liner should be installed to the full depth of the bore hole or 2m



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into non-collapsible stratum, so that fragments of ground can not drop from the sides of the hole into concrete, as it is placed. This shall be done strictly as per the directive of GETCO Engineer-in-Charge.

The hopper and tremie shall be a closed system embedded in the placed concrete by 1.50m concrete so that water can not pass. The pile should be concreted wholly by tremie only and uninterrupted.

The quantity of concrete used shall be compared with calculated quantity at various depths, as per drawing to have check against fall of debris, or side caving.

### **Reinforcement:**

Reinforcement cage shall be prepared as per design & drawing, with cover blocks and shall be placed centrally, so that sides of pile bore are not disturbed.

The length of cage shall be determined as per the actual depth of bore including socketing length of pile into rock if any.

Sufficient care shall be taken to avoid any lifting or tilting of reinforcement cage, at the time of concreting.

### **Boring operation:**

Boring operation shall be done by rotary or percussion type drilling rigs using direct mud/bentonite circulation or reverse circulation methods to bring the cuttings out.

Pile bore log shall be maintained and shall be compared with soil investigation report and design & drawing.

The size of cutting tool should not be less than the pile diameter by more than 75mm.

Proper cleaning of pile bore after lowering the reinforcement and before concreting shall be done. On completion of bore as per required depth as per design, the bottom of the bore shall be flushed to remove debris till clear water comes out.

When liner is used and the pile bore is filled with water or drilling mud, the bottom part may be concreted using tremie so that the liner is effectively sealed against ingress of ground water.

For execution of piling work relevant latest IS Code of materials and working method shall be followed.

## **A. CONCRETE**

### **(I) PROPORTION :**

The Proportion of fine, coarse aggregates and cement shall be as specified in item of tender where nominal mix is to be used. Proportion of material shall be carried out such that the proportion of materials is readily verifiable. Material must be measured in boxes of steel or wooden, approved by EIC. Box to be used for which aggregate, its size etc. shall be clearly marked on box. No ramming of boxes will be permitted. Slight variation in proportion for technical requirement will have to be carried out without any extra cost. Boxes shall be filled in presence of authorized agent of Corporation and work shall be carried out during working hours fixed by Corporation or approved by Engineer-in-charge.

Where strength of concrete is specified instead of nominal mix, contractor will have design mix for the specified strength as provided in IS code for design mix. Proportion shall be used on weight of ingredients of concrete using specified size of the coarse aggregate in item. If ordered, contractor





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will have to get economical design from Gujarat Engineering Research Institute or other approved institution.

Where permitted, in case of small works, proportional of weight basis can be converted to volumetric for use at site with maintaining same quality of aggregates as used in designing the mix. Design mix shall be got approved and minimum cement if specified shall have to be used. Any charge in source of aggregate will require redesigning of the concrete mix. The engineer shall have right to inspect the source of materials used and contractor will have to arrange for testing of material, if ordered, without any extra cost.

### (II) MATERIALS :

Coarse aggregate & fine aggregate i.e. black Trap metal, Grit, sand etc. shall confirm to IS 353 for aggregate from natural source. Aggregates shall be strong, hard, durable, free from foreign materials and adherence. If found necessary, contractor shall have to arrange testing of aggregate according to IS 2386 & IS 576.

Coarse aggregate shall be of specified size in the item viz 40 mm, 20 mm, 10 mm etc. Where gradation is to be done in mix design, it shall be properly graded. Coarse aggregates shall be free from mica, shale etc. The pieces shall be angular in shape having granular or crystalline surface, triangular, flaky & laminated should not be used. If ordered by Engineer-in-charge, aggregates shall have to be screened or washed. Samples of coarse aggregates to be used shall be got approved and source of approved quality material shall not be changed without prior approval.

Sand shall be clean river sand of quality approved as per IS confirming to gradation zones. Sand shall have fineness modulus of not less than 2.2 or more than 3.2.

When sufficient quantity of aggregates are to be collected. they shall be stacked separately in piles to avoid inter mixing. Mixing of earth, organic materials and other foreign materials shall be avoided. Rakers shall be used for lifting of coarse aggregates. Coarse aggregate having specific gravity of less than 2.6 shall not be used.

Cement shall be ordinary Portland cement unless otherwise specifically specified. One bag of cement is considered 50 kg. of cement. If cement is to be procured by contractor from outside, certified report that cement confirms to the provision of I.S. shall be furnished if demanded. If necessary, testing will have to be carried out, in approved laboratory without any extra cost. For compressive strength and initial setting time test as per I.S.456.

Water to be used for mixing and curing shall be potable water free injurious and deleterious materials confirming to IS 3025, proper storing facility at site shall be provided by contractor and see that water do not get contaminated – The suitability of water for making concrete shall be ascertained. Water shall confirm to the test as given in I.S.3025.

### (III) MIXING

Ingredients i.e. cement, sand and coarse aggregates shall be measured by weigh batcher or volumetric boxes as specified or approved. Boxes for each component shall be prepared for such quantity that will be required for one bag of cement.

All ingredients shall be mixed in mechanical mixer. Ingredients shall be first mixed dry for 1 minute and then required quantity of water is added as per design and mixed for minimum 1 ½ minutes till concrete is uniform. Entire concrete in the mixing drum shall be discharged in pre operation before raw materials for second batch is feed into the drum.

Concrete which can be laid before initial setting time of cement shall be prepared. Party set or tempered concrete shall not be used. Mixer machine, weigh batcher etc. shall be cleared after completion of work. Mechanical mixture shall comply to I.S.1791.



## Gujarat Energy Transmission Corporation Ltd.

Transmission Circle Office, Near 66kV Sub-station, Keriya Road,  
Amreli – 365 601.

e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



For checking consistency and workability of concrete, slump test shall be carried out as per IS 1199 if desired by Engineer-in-charge.

### (IV) LAYING

Before laying of concrete, shuttering and reinforcement shall be got checked. Where inserts are to be provided, they shall be fixed properly at places shown. Concrete shall be laid on cleaned surface. Concrete shall be laid such that ingredients do not get separated and on segregation of concrete is caused. Concrete shall be consolidated properly with vibrators or other approved method according to the requirement of jobs. Joints in concrete shall be left as shown or as directed by Engineer-in-charge. Where concrete is to be place from height, necessary chute shall be provided.

### (V) CURING

Concrete work shall be cured for minimum period of 15 days. Horizontal surface shall be cured by ponding and vertical surface shall be kept wet by tying gunny cloth or gunny bags and keeping them wet by spraying or sprinkling water. Where structure is at higher-level contractor shall arrange for pumping arrangement for water. Watertight sump may be prepared on site or storing of water for curing and other uses.

Curing is important for gaining strength of cement structure. Hence full proof arrangement is required to be made. If curing is found sufficient, the same shall be arranged by department as risk and cost of contractor and charges as per rules shall be recovered from contractor's bills.

### (VI) FINISHING

Concrete work where specified in item as exposed surface shall be plastered 12mm thick in CM 1:3 as per specifications of plastering item. Any finishing required to make surface in level of flush to adjoining surface shall be made by contractor with mortar specified portion of concrete.

Cement required to plastering of finishing shall be drawn separately. In plastering of slab bottom, chhajjas etc. wherever patta, groove, bend etc. are shown same shall be executed in this item without any extra cost. Where slopes is to be given for drainage and is not provided properly will have to be done without any extra cost. Edges of beam, pillars, etc. where chamfering is shown or instructed shall be done without extra cost.

If concrete surface is found honey combed and same is rejected by Executive Engineer, it shall have to be dismantled and recast by contractor without any extra cost at his risk and cost.

### (VII) SHUTTERING :

The form work shall be rigid, sufficiently strong and well anchored to bear the load which it has to take without any distortion. It shall be backed sufficient so as not to budge of twist. Form work shall be of steel plates or plywood. Where exposed surface is desired, plywood shuttering will have to be provided. All surface coming in contact with concrete shall be applied with shuttering oil after cleaning properly. Props supporting from work shall rest on pucca platform. Adjustment of height shall be done with wooden wedges. Spacing of props shall be as instructed by Engineer-in - charge of work.

Form work shall be got checked form the Executive Engineer or his authorized agent and on clearance only, further work should be done. Necessary opening, in form work, for providing hooks, kada or other inserts will have to be made by contractor, as instructed, without any extra cost. Removal of from work shall be carried out slowly and at the specified period as under. In case it is ordered to contractor to keep for more period, considering quality of cement or other factors, same will have to be done by contractor. Minimum period of de-shuttering shall be as under.

1. Vertical surface 24 hours.



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Amreli – 365 601.

e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



2. Slab up to 4.5M span 8 days
- More than 4.5M span 14 days
3. Beam soffits (bottom) 20 days

Removal of shuttering shall be done only on getting clearance from Ex. Engr. in change of work.  
Various IS. specifications for scaffolding materials and code of practice shall be followed.

### **(VIII) MEASUREMENT & PAYMENTS :**

Unless otherwise specified separately, item of concrete work shall be inclusive of shuttering work required for the same with scaffolding, ladders etc., No separate payment should be made for keeping holes, pockets, keeping inserts in position etc.

Payment of concrete work shall be made on Cu. Mt. basis. No deduction will be made for reinforcements, opening of less than 1/20 Sq. Mt. in area where measurement is in sq.m. and 1/150 cu.m. where concrete is to be measured in CU. M.

Rate quoted for the item shall be inclusive of all materials, ingredients, labour, mixer & other machinery, scaffolding, laying in position and fixing of all inserts curing other requirements for the complete execution of item.

### **B. WATER SUPPLY**

#### **G.I. piping**

G.I. pipe be used for water supply shall be of class 'c' confirming to I.S. Specifications. It shall be fixed with suitable clamps, for concealing with necessary groove in wall and finishing with C.M. When pipe is to be laid underground necessary excavation shall be done to level required. Pipe shall be given 3 coats of coal tar. For joining pipes specials of approved quality (extra thick) shall be used. If item provide painting of pipe same shall be painted with approved brand quality and tint enamel paint. All specials shall be provided as instructed.

Skilled plumber shall be employed on job. Pipes shall be laid as per detailed drawings or as directed on site. Generally shortest route shall be followed. At connection of pipe with special, joint shall be made water tight with hemp rope and zinc white or Teflon tape.

On completion of laying of pipe and before sealing of concealed pipe and underground pipe, leak proof test shall be given.

All the piping work shall be measured in running meter and rate quoted shall be inclusive of all special required and all operations required for cutting, threading, joining, excavation, making groove in wall, sealing grout, backfilling, providing clamps with screws, painting etc. complete.

### **C. WOOD WORK GENERAL FOR DOORS WINDOWS, CUP BOARD etc.**

The timber shall be of best quality Bulsar teak or equivalent teak approved by Executive Engineer. Decision of Executive Engineer in this connection will be final. If desired by Executive Engineer, contractor shall have to arrange testing of wood samples selected by department at random, in the laboratory as instructed by department. Sample of wood approved shall be preserved and contractor shall procure wood of the approved quality only. The source of wood shall be informed to the Engineer-in-charge.

The timber to be used for wood work shall be well seasoned, closed grains, uniform texture, free from knots, rots, soft, cracks, mend, spongy spots etc. The size of frame and all members shall be final size after planning and finishing. Undersized wooden members shall not be accepted. Wood of inferior quality, undsize shall be liable to rejection.

When frames or other members are ready they shall be got checked from Engineer-in-charge and got approved for quality and workmanship. Primer coat of paint shall be applied only after clearance by Engineer-in-charge. If the wooden members are found warped, shrunk or with bad workmanship



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Transmission Circle Office, Near 66kV Sub-station, Keriya Road,  
Amreli – 365 601.

e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



within guarantee period, the same shall have to be replaced by contractor without any extra cost and to the satisfaction of engineer-in-charge.

Before fixing, the frame of door it shall be provided with six nos. M.S. flat 37mm x 6mm and 300 mm long hold fasts fixed to the frame, with screws as directed. Hold fast shall be with split end and bent at right angle to hold fast. Holes shall be provided at other end of hold fast for fixing of screws. Sample of holdfast shall be got approved from Engineer-in-charge. Windows and cupboard shall be provided with 4 Nos. or 2 Nos. of hold fast according to the size of frame and as instructed by Engineer-in-charge in addition to horns projecting minimum 75 mm on both sides of top & bottom members. The side of frame to be embedded in the wall or in touch with wall or floor, shall be applied uniform thick coat of coal tar.

The frame shall be rebated on one side (or both sides) 12 mm deep and of full thickness of shutter and to have a return bead on the other to be chamfered or rounded as directed by Engineer-in-charge. Wherever M.S. Bars of 16 mm diameter are specified in frame as grill in windows or ventilator, they shall be provided at 100 mm c/c and shall be locked in frame for minimum 40mm deep. If M.S. flat is to be provided the flat of size 50 x 10 mm, 1 or 2 Nos. as specified, they shall be provided.

### Shutters

The thickness of shutter and members of shutter frame shall be as per details given in drawing or supplied at site. Size specified shall be after planning & finishing without painting. Where single plank is specified single plank shall be used. The joint shall be tongue and groove joint. Shutter shall be single or double shutter as per drawing and details given or as directed at site. For paneled doors the panel to be raised feather tongued into style and rails with beaded edges on both sides. Thickness of styles & rails shall be 37 mm and that of panel shall be 30 mm.

The arrangement of panels shall be as directed by the Engineer-in-charge and his decision will be final. The shutter styles, top, bottom, lock and frieze rods to be molded on both sides. The sample of shutter shall be got approved before taking work on full scale. Size of bottom, top & lock rail and ledges shall be as instructed by Engineer-in-charge.

### Joints :

All jointing shall be brought on all faces and finished off by hand with sand paper with slightly rounded edges.

The joints shall be pinned with hard wood pins and put together with fevicol. Joining shall be by means of mortise and tennon or dovetailed joints as approved. Any joinery work, which shall split, fracture, shrink or shows flap or other defects shall be removed and replaced with sound material at the contractor's expenses.

### Fixtures and fastening :

Oxidized iron, brass or aluminum fixtures as specified in item shall be provided in best workmanship, maintain level and line with approved quality and size screws. Screw shall be never hammered but driven with screwdriver. The fixture to be used shall be got approved first and approved samples of all fixtures shall be kept on site easily available for inspection.

#### 1. For main door.

1. 300 mm long 16 mm dia aldrop 1 No.
2. 300 mm long flat latch. 1 No.
3. 100 mm long but hinges or 150 mm long or suitable parliamentary hinges. 3 Pairs.
4. 150 mm long tower bolts. 2 Nos.
5. 100 mm long handles (150 mm long). 2 Nos.
6. Door catchers 2 Nos.
7. Magic eye. 1 Nos.

#### 2. Internal door.



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e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



1. 250 mm long 16 mm dia aldrop 1 No.
2. 250 mm long flat latch. 1 No.
3. 100 mm butt or 150 mm hinges or suitable Parliamentary hinges. 3 Pairs.
4. 100 mm long tower bolts. 2 Nos.
5. 100 mm long handles 150 mm long. 2 Nos.
6. Door catchers 2 Nos.

For bath & door 16 mm dia 250 mm long aldrop and one handle on both sides shall be provided.

### 3. Windows

1. 75 mm long butt hinges or parliamentary hinges 2 to 3 pair as per size.
2. 100 mm tower bolts 4 Nos.
3. 100 mm handles. 2 Nos.
4. 150 mm hook eye or stopper of approved quality. 2 Nos.

### 4. Ventilator.

1. 75 mm butt hinges. 1 Pair
2. 100 mm tower bolts. 1 Nos.
3. 150 mm long hook eye. 2 Nos.

### 5. Cup Board

1. 75 mm long butt hinges 2 Pairs.
2. 100 mm handles 2 Nos.
3. 100 mm tower bolt. 2 Nos.
4. Pivot. 2 Nos.
5. Ball catcher. 1 No.

The Nos. of fixtures shown above is for general arrangement but in case some change is felt necessary on site it shall be made by Executive Engineer on site and shall be binding to the contractor.

### Glazing :

For all glazing of doors, windows, ventilators and cup Boards all glasses shall be of best quality free from bubbles, smoke wanes, air hole, specks and other defect. Sheet glass, ground for clear as approved and instructed shall be of 3 mm thickness. The glasses shall be fixed with wire nails and putty of best quality or wooden bead of required size to flush with style or sash bar etc. The putty and the wooden battens should be finished with 3 coats of oil paints matching with other paint of doors, windows and ventilators. At the time of handing over the glazing work shall be intact. Any damage shall have to be replaced by the contractor without any extra cost.

### Erection :

All doors, windows, ventilators, cupboards shall be erected in line, level and in one plane to the elevation shown in the drawing or directed by Engineer in charge at site.

### Painting :

All doors, windows, ventilators, cup board shall be given 3 coats of approved quality, brand and shade of oil paint. Each coat of paint shall be allowed to dry thoroughly before next coat is applied. The work shall not show any brush marks, ridges or drops of paint and no puddles in the corner of panels or molding etc., shall be left.

### Measurement :

For payment purpose of doors, windows, ventilators and cup board, measurement will be paid outside to outside of the frame in square meter basis.

## D. GRILL/FABRICATION/RAILING

### General





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Transmission Circle Office, Near 66kV Sub-station, Keriya Road,  
Amreli – 365 601.

e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



All workmanship and finish shall be of first class quality, in all respects and shall confirm to the best accepted standards of practice. Finish surface should not have any defect. The greatest accuracy shall be observed to see that all parts properly fit with each other on erection.

Before cutting & fabrication work is taken up, it is necessary, to see that if any twisting, bending etc. is there, the same is removed and made straight or in plane. The process to be adopted shall be such that original material is not injured.

Members shall be fabricated on site or in workshop, as approved, by Engineer in charge. Allowance for camber shall be made in case of truss etc. similarly in tension member and compression members. IS standards shall be followed. Based on design and/or detailed drawings, cutting schedule with no. of members shall be prepared and got approved from competent authority. Shearing machine or gas cutting may be adopted as approved.

All holes to be drilled shall be marked on members and drilled after proper checking. If necessary, a template shall be made for this. All holes shall be perpendicular to the face of the member and 1/6" larger than the nominal size of rivet or bolt. All holes shall be so drilled and reamed that more than 85% of continuous holes in any group in same plane shall not show any offset greater than 1/32" between adjacent thickness of metal. Burns, resulting from reaming or drilling, shall be removed with a tool making 1/16" bored.

All welding shall be done with electric arc method. Welding electrodes shall be heavily coated type designed for all position. The size, type and manufacturer of electrodes shall be subject to approval of Engineer. Electrodes and welding work shall be as per I. S. standards. All the cutting and needed surface shall be properly grinded with electric grinder. Fabricated members shall be joined either by welding or by rivets or nut & bolt arrangement as specified or shown on drawing or instructed. One assembled shall be got approved for alignment, riveting, welding etc. For bolted joints necessary washers shall be provided as shown in the drawing or as instructed on site.

Fabricated structure shall be given one shop coat of red oxide. Erection of the structure shall be done by approved method. Care shall be taken during erection so that no accident occurs. All the workers shall be provided with safety belts, helmets etc, during working.

Care shall be taken to see that no damage is done to the members during transportation of fabricated/assembled structure. Contractor shall provide necessary derricks, gantry, scaffolding and staging, inflammable etc. for erection work, No. gas cutting shall be allowed for the widening of holes when it is not matching. It shall be drilled.

After erection of structure one more coat of red oxide and 2 coats of approved oil painting should be provided to the structure. Paint to be applied shall be got approved for brand, quality, tint etc.

If desired test shall have to be carried out for welded joints. IS 816 shall be followed for general construction in mild steel. Bolts shall be confirm to IS 1363 & IS 1364. Electrodes shall confirm to IS 814.

### **(D5) GENERAL TECHNICAL SPECIFICATIONS FOR BUILDING WORKS:**

#### **GENERAL:**

1. In the specifications " as directed "/"approved" shall be taken to mean " as directed "/"approved by the Engineer-in-Charge.
2. Wherever a reference to any Indian Standard appears in the specifications, it shall be taken to mean as a reference to the latest edition of the same in force on the date of agreement.
3. In " Mode of Measurement" in the specifications wherever a dispute arises in the absence of specific mention of a particular point of aspect, the provisions on these particular points, or aspects in the relevant Indian Standards shall be referred to.
4. . All measurements and computations, unless otherwise specified, shall be carried out nearest to the following limits :





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Transmission Circle Office, Near 66kV Sub-station, Keriya Road,  
Amreli – 365 601.

e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



(i) Length, width and depth ( height) 0.01 meter

(ii) Areas 0.01 Sq.Mt.

(iii) Cubic Contents 0.01 Cu.Mt.

In recording dimensions of work, the sequence of length, width and height ( depth ) or thickness shall be followed.

5. "The distance which constitutes lead shall be determined along the shortest practical route and note necessarily the route actually taken. The decision of the Engineer-in-charge in this regard shall be taken as final.

6. Where no lead is specific, it shall mean " all leads ".

7. Lift shall be measured from plinth level.

8. Up to " floor two level" means actual height of floor ( Maxi. 4 .M ) up to 3 Mt. above plinth level.

9. Definite particulars covered in the items of work, though not mentioned or elucidated in it specifications shall be deemed to be included therein.

10. Reference to specifications of materials as made in the detailed specification of the items of works is in the form of a designation containing the number of the specification of the material and prefix "M" e.g. 'M-5'.

11. Approval to the samples of various materials given by the Engineer-in-charge 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 materials being rejected by the Engineer-in-charge.

12. The contract rate of the item of work shall be for the work completed in all aspects.

13. No collection of materials shall be made before it is got approved from the Engineer-in-charge.

14. Collection of approved materials shall be done at site of work in a systematic manner. Materials shall be stored in such a manner as to prevent damage, deterioration or intrusion of foreign matter and to ensure the preservation of their quality and fitness for the work.

15. Materials, if and when rejected by the Engineer-in-charge, shall be immediately removed from the site of work .

16. No materials shall be stored prior to, during and after execution of a structure in such a way as to cause or lead to damage or overloading of the various components of the structure.

17. All works shall be carried-out in a workmanlike manner as per the best techniques for the particular item.

18. All tools, templates, machinery and equipment for correct execution of the work as well as for checking lines, levels, alignment of the works during execution shall kept in sufficient numbers and in good working condition on the site of the work.

19. The mode, procedure and manner of execution shall be such that it does not cause damage or over-loading of the various components of the structure during execution or after completion of the structure.

20. Special modes of construction not adopted in general Engineering practice if proposed to be adopted by the Contractor, shall be considered only if the contractor provides satisfactory evidence that such special mode of construction is safe, sound and helps in speedy construction and completion of work to the required strength and quality. Acceptance of the same by the Engineer-in-Charge shall not, however absolve the contractor of the responsibility of any adverse effects and consequences of adopting the same in the course of execution of completion of the work, 21. All installations pertaining to water supply and fixtures there of as well as drainage lines and sanitary fittings shall be deemed to be completed only after giving satisfactory tests by the contractor

22. The contractor shall be responsible for observing the rules and regulations imposed under the "Minor Minerals Act", and such other laws and rules prescribed by Government from to time.



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Amreli – 365 601.

e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



23. All necessary safety measures and precautions (including those laid down in the various relevant Indian Standards ) shall be taken to ensure the safety of men materials and machinery on the works as also of the work itself.

\* 24. The testing charges of all materials shall be borne by the Contractor

25. Approval to any of the executed items for the work does not in any relieve the contractor of his responsibility for the correctness, soundness and strength of the structure as per the drawings and specifications

### **(D6) SPECIFICATIONS OF MATERIALS:**

#### **M-1. Water**

**1.1** Water shall not be salty brackish and shall be clean, reasonably clear and free objectionable quantities of silt and traces of oil bad injurious alkalis, salts, organic matter and other deleterious material which will either weaken the mortar of concrete or cause efflorescence or attack the steel in R.C.C. Container for transport, storage and handling of water shall be clean. Water shall conform to the standard specified in I.S.456-1978.

**1.2** If required by the Engineer-in-Charge it shall be tested by comparison with distilled water. Comparison shall be made by means of standard cement tests for soundness time of setting and mortar strength as specified in I.S. 269-1976 Any indication of unsoundness, change in time of setting by 30 minutes or more or decrease of more than 10 per cent in strength, of mortar prepared with water sample when compared with the results obtained with mortar prepared with distilled water shall be sufficient cause for rejection of water under test.

**1.3** Water for curing mortar, concrete or masonry should not be too acidic or too alkaline . It shall be free of elements which significantly affect the hydration reaction or otherwise interfere with the hardening of mortar or concrete during curing or those which produce objectionable stains or other unsightly deposits on concrete or mortar surfaces

**1.4** Hard and bitter water shall not be used for curing.

**1.5** Potable water will generally found suitable for curing mortar or concrete.

#### **M-2 Lime**

**2.1** Lime shall be hydraulic lime as per I.S. 712-1973 Necessary tests shall be carried out as per IS .6932 ( Parts I to X) 1973

**2.2** The following field tests for Times are to be carried out:

(1) A very rough idea can be formed about the type of lime by its visual examination i.e. fat lime bears pure white colour, lime in form of porous lumps of dirty white colour indicates quick lime, and solid lumps are the unburnt limestone.

(2) Acid tests for determining the carbonate content in lime Excessive amount of impurities and rough determination of class of lime.

**2.3** Storage shall comply with I.S. 712-1973. The slaked lime, if stored, shall be kept in a weather-proof and damp-proof shed with impervious floor and sides to protect it against rain, moisture, weather and extraneous materials mixing with it: All lime that has been damaged in any way shall be rejected and all rejected materials shall be removed from site of work.

**2.4** Field testing shall be done according to I.S. 1624-1974 to show the acceptability of materials.

#### **M-3 Cement**

**3.1** Cement shall be ordinary Portland slag cement as per I.S.269-1976 or Portland slag cement as per I.S. 455-1976

#### **M-4 White Cement**

**4.1** The white cement shall conform to I.S 8042-E-19.78.,

#### **M-5 Coloured Cement**



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Transmission Circle Office, Near 66kV Sub-station, Keriya Road,  
Amreli – 365 601.

e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



**5.1** Coloured cement shall be with white of grey Portland cement as specified in the item of the work.

**5.2** The pigments used for coloured cement shall be of approved quality and shall not exceed 10% of cement used in the mix. The mixture of pigment and cement shall be properly ground to have a uniform colour and shade. The pigments shall have such properties as to provide for durability under exposure to sunlight and weather.

**5.3** The pigment shall have the property such that it is neither affected by the cement nor detrimental to it

### M-6 Sand

**6.1** Sand shall be natural sand, clean, well graded, hard strong, durable and gritty particles free from injurious amounts of dust, clay kankar nodules, soft or flaky particles shale, alkali salts organic matter, loam, mica or other deleterious substances and shall be got approved from the Engineer-in-Charge. The sand shall not contain more than 8 percent of silt as determined by field test. If necessary the sand shall be washed to make it clean.

**6.2. Coarse Sand :** The fineness modulus of coarse sand shall not be less than 2.5-and shall not exceed

3.0, The sieve analysis of coarse shall be as under :

I.S Designation	Sieve Passing sieve	Percentage by weight Designation	I.S. Sieve percentage weight passing sieve
4.75mm	100	600 Micron	30-100
2.36mm	90 to 100	300 Micron	5-70
1.18mm	70-100	150 Micron	0-50

### 6.3. Fine Sand :

The fineness modulus shall not exceed 1.0. The sieve analysis of fine sand shall be as under :

I.S Designation	Sieve Passing sieve	Percentage by weight Designation	I.S. Sieve percentage by weight passing sieve
4.75mm	100	600 Micron	40-85
2.36mm	100	300 Micron	5-50
1.18mm	75-100	150 Micron	0-10

### M-7 Stone Dust



## Gujarat Energy Transmission Corporation Ltd.

Transmission Circle Office, Near 66kV Sub-station, Keriya Road,  
Amreli – 365 601.

e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



**7.1.** This shall be obtained from crushing hard black trap or equivalent. It shall not contain more than 8%, of silt as determined by field test with measuring cylinder. The method of determining silt contents by fields test is given as under

**7.2.** A sample of stone dust to be tested shall be placed without drying in 200 mm. measuring cylinder. The quantity of the sample shall be such that it fills the cylinder up to 100mm. Mark .The clean water shall be added up to 150 mm. mark. The mixture shall be stirred vigorously and the content allowed to settle for 3 hours.

**7.3.** The height of silt visible as settled layer above the stone dust shall be expressed as percentage of the height of the stone dust below. The stone dust containing more than 8% silt shall be washed so as to bring the content within the allowable limit. The fineness nodules of stone dust shall not be less than 1,80.

### M-8. Stone Grit

**8.1.** Grit shall consist of crushed or broken stone and be hard, strong, dense, durable, clean of proper gradation and free from skin or coating likely to prevent proper adhesion of mortar. Grit shall generally be cubical in shape and as far as possible flakey elongated pieces shall be avoided. It shall generally comply whit the provisions of I.S. 383-1970. Unless special stone of particular quarries is mentioned grit shall be obtained from the best black trap or equivalent hard stone as approved by the Engineer-in-Charge. The grit shall have no deleterious with cement.

**8.2.** The grit shall conform to the following gradation as per sieve analysis : \_\_\_\_\_

I.S Designa- tion	Sieve Passing sieve	Percentage by weight Designation	I.S. Sieve percentage by weight passing sieve
1250mm	100 %	4.75mm	0-20 %
10.00mm	85-100 %	2.36mm	0-25%

**8.3.** The crushing strength of grit will be such as to allow the concrete in which it used to build-up the specified strength of concrete

**8.4** The necessary tests for grit shall be carried out as per the requirements of I.S.2386- ( parts-I of VIII) 1963, as per instructions of the Engineer-in-Charge. The necessity of test will be decided by the . Engineer-in-Charge.

### M-10. Lime Mortar

**10.1.** Lime : Lime shall conform to specification M-2 Water : Water shall conform to specification M-1 Sand: Sand shall conform to specification M-6

#### 10.2. Proportion of Mix :

**10.2.1.** motor shall consist of such proportions of slaked lime and sand as may be specified in item. The slaked lime and sand shall be measured by volume.

#### 10.3 Preparation of mortar :

**10.3.1.** Lime mortar shall be prepared by wet process as per I.S.1625-1971.Power driven mill shall e used for preparation of lime mortar. The slaked lime shall be placed in the mill in an even layer and ground for 180 revolutions with a sufficient water. Water shall be added as required during grinding (care being taken . not to add more water) that will bring the mixed material to a consistency of stiff paste. Thoroughly wetted sand shall then be added evenly and the mixture ground for another 180 revolutions.

#### 10.4. Storage :



## Gujarat Energy Transmission Corporation Ltd.

Transmission Circle Office, Near 66kV Sub-station, Keriya Road,  
Amreli – 365 601.

e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



**10.4.1.** Mortar shall always be kept damp, protected from sun and rain till used up, covering it by tarpaulin or open sheds.

### 10.5 Use :

**10.5.1.** All mortar shall be used as soon as possible after grinding. It should be used on the day on which it prepared, But in no case mortar made earlier than 36 hours shall be permitted for use.

### M-11 Cement Mortar

11.1 Water shall conform to specification M-1 Cement : Cement shall conform to specifications M-3 Sand : Sand shall conform to M-6

### 11:2 Proportion of Mix

**11.2.1.** Cement and sand shall be mixed to specified proportion, sand being measured by measuring boxes, the proportion of cement will be by volume on the basis of 50 Kg/Bag of cement being equal to 0.0342 Cu.m. The mortar may be hand mixed or machine mixed as directed.

### 11.3. Proportion of Mortar :

**11.3.1.** In hand mixed mortar, cement and sand in the specified proportions shall be thoroughly mixed dry on a clean impervious platform by turning over at least 3 times or more till a homogeneous mixture of uniform colour is obtained. Mixing platform shall be so arranged, that no deleterious extraneous material shall get mixed with mortar or mortar shall flow out. While mixing, the water shall be gradually added and thoroughly mixed to form a stiff plastic mass of uniform colour so that each particle of sand shall be completely covered with a film of wet cement. The water cement ratio shall be adopted as directed.

The mortar so prepared shall be used within 30 minutes of adding water. Only such quantity of mortar shall be prepared as can be used within 30 minutes.

### M-12 Stone Coarse Aggregate For Nominal Mix Concrete

12.1 coarse aggregate shall be of machine crushed stone of black trap or equivalent and be hard, strong, dense, durable, clean and free from skin and coating likely to prevent proper adhesion of mortar.

12.2 The aggregate shall generally be cubical in shape. Unless special stones of particular quarries are mentioned aggregates shall be machine crushed from the best black trap or equivalent hard stone as approved. Aggregate shall have no deleterious reaction with cement. The size of the coarse aggregate for plain cement and ordinary reinforced cement concrete shall generally be as per the table given below. However, in case of reinforced cement concrete the maximum limit may be restricted to 6 mm less than the minimum lateral clear distance between bars or 6 mm. less than the cover whichever is smaller

**TABLE**

IS. Sieve	Percentage passing for single			IS. Sieve	Percentage passing for single		
Designation	40mm	20mm	16mm	Designation	40mm	20mm	16mm
80mm	-			12.5mm	0.5		0.20
63mm	100			10 mm	0.5		0.5
40mm	85-100	100		4.75mm			
20mm	0.2	85-100	100	2.35 mm			
16mm		85-100					

**Note :** This percentage may be varied some what by the Engineer-in-Charge when considered necessary for obtaining better density and strength of concrete.





## Gujarat Energy Transmission Corporation Ltd.

Transmission Circle Office, Near 66kV Sub-station, Keriya Road,  
Amreli – 365 601.

e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



**12.3.** The grading test shall be taken in the beginning and at the change of source of materials. The necessary tests. Indicated in IS. 383-1970 and 456-1978 shall have to be carried out to ensure the acceptability. The aggregates shall be stored separately and handled in such a manner as to prevent the mixing of different aggregates. If she aggregates are covered with dust, they shall be washed with water to make them clean.

### **M-13 Black Trap or Equivalent Hard Stone Coarse**

**13.1.** Aggregate For Design Mix Concrete Coarse aggregate shall be of machine crushed stone of black trap or equivalent hard stone and be hard, strong, dense, durable, clean and free from skin and coating likely to prevent proper adhesion of mortar,

**13.2.** The aggregates shall generally-be cubical in shape. Unless special stones of particular quarries are mentioned, aggregates shall be machine crushed from the best, black trap or equivalent hard stones as approved, Aggregate shall have no deleterious with cement.

**13.3.** The necessary tests indicated in IS. 383-1970 and IS.456-1978 shall have to be carried out to ensure the acceptability of the material. If aggregate is covered with dust it shall be washed with water to make it clean.

### **M-15 Brick**

**15.1** The brick shall be shall be machine moulded and made from suitable fly ash, cement, lime, gypsum, etc. They shall be free from cracks and nodules of free lime. They shall have smooth rectangular faces with sharp corners and shall be of uniform colour. The bricks shall be moulded with the frog of 100mm x 40 mm and 10mm to 20mm deep on one of its flat sides. The bricks shall not break when thrown on the ground from a height of 600mm.

**15.2** The size of the modular bricks shall be 190 x 90 x 90 mm.

**15.3** The size of the conventional bricks shall be 225 x 110 x 75mm.

**15.4.** Only bricks of one standard size shall be used on one work. The following tolerance shall be permitted in the conventional size adopted in a particular work. Length +3.0mm, Width + 1.50mm, Height +1.50mm.

**15.5** The crushing strength of the brick shall not be less than 35.0 Kg / Sq cm. The average water absorption shall not be less than 20 per cent by weight. Necessary test for crushing strength and water absorption shall be carried out as per IS 3495 : (Part I to Part IV) 1976.

### **M-16 Stone**

**16.1** The stone shall be of the specified variety such as Granite/Trap Stone/-Quartzite Or any other type of good hard stones. The stones shall be only from the approved quarry and shall be hard sound, durable and free from defects like cavities, cracks, sand holes, flaws injurious veins, patches of loose or soft materials etc., and weathered portions and other structural defects or imperfections tending to affect their soundness and strength. The stone with round surface shall not be used The percentage of water absorption shall not be more than 5% of dry weight. When tested in accordance with I.S. 1124- 1974. The minimum crushing strength of stone shall be 200 Kg/Sq. Cm. unless otherwise, specified

**16.2** The samples of the stone to be used shall be got approved before the work is started

**16.3** The Khanki facing stone shall be dressed by chisel as specified in the item for khanki facing in required shape and size. The face of the stone shall be so dressed that the bushing on the exposed face shall not project by more than 40 mm. from the general wall surface and on face to be plastered it shall not project by more than 19 mm. nor shall it have depressions more than 10 mm. from the average wall surface.

### **M-17 Laterite Stone**

**17.1** Laterite stone shall be obtained from the approved quarry. It shall be compacted in texture, sound, durable and free from soft patch. It shall have minimum crushing strength of 100Kg/Sq.Cm.in





## Gujarat Energy Transmission Corporation Ltd.

Transmission Circle Office, Near 66kV Sub-station, Keriya Road,  
Amreli – 365 601.

e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



its-dry condition. It shall not absorb water more than 20% of its own weight,when immersed-for 24 hours in water. After quarrying, the stone shall be allowed to weather for some time before using in work.

17.2 The stone shall be dressed into regular rectangular blocks so that all faces are free from waviness and unevenness, and the edges true and square.

17.3 Those types of stone in which white clay occurs should not be used. Special corner stones shall be provided where so directed.

### **M-21. Mild Steel Binding Wire**

21.1. The mild steel wire shall be of 1.63 mm. or 1.22 mm. ( 16 to 18 gauge ) diameter and shall conform to I.S. 280-1972.

21.2. The use of black wire will be permitted for binding reinforcement bars. It shall be free from rust, oil paint, grease, loose mill scale or any other undesirable coating which may prevent adhesion of cement mortar.

### **M-22. Structural Steel**

22.1. All structural Steel shall conform to I.S. 226-1985. The steel shall be free from the defects mentioned in I.S. 226-1975 and shall have a smooth finish. The material shall be free from loose mill scale, rust pits or other defects affecting the strength and durability. River bars shall conform to I.S. 1148-1973. When the steel is supplied by the Contractor test certificate of the manufacturers shall be obtained according to I.S. 226-1975 and other relevant Indian. Standards.

### **M-26 Shuttering**

26.1: The shuttering shall be plywood sheet. The shuttering shall be supported on battens and beams and tubular steel supports properly cross braced together so as to make the centering rigid.

26.2. The form work shall be sufficiently strong and shall have camber, so that it assumes correct shape after deposition of the concrete and shall be able to resist forces caused by vibration of live load of men working over it and other incidental loads associated with it. The shuttering shall have smooth and even surface and its joints shall permit leakage of cement grout.

26.3. If at any stage of work during or after placing concrete in the structure, the form work sags or bulges out beyond the required shape of the structure, the concrete shall be removed and work redone with fresh concrete and adequately rigid form work. The complete formwork shall be got inspected by and got approved from the Engineer-in-Charge, before the reinforcement bars are placed in position

26.4. The props shall consist to tubular steel support shall be placed as per design requirement. These shall rest squarely on steel sole plates and minimum bearing area of 0-10 sq m. laid on sufficiently hard base.

26.5. Double wedges shall further be provided between the sole plate and the wooden props so as to facilitate tightening and easing of shuttering without jerking the concrete.

26.6. The timber used in shuttering shall not be so dry as to absorb water from concrete and swell or bulge nor so green or wet as to shrink after erection. The timber shall be properly sawn and planed on the sides and the surface coming in contact with concrete, Wooden form work with metal sheet lining or steel plates stiffened by steel angles shall be permitted,

26.7. As far as practicable, clamps shall be used to hold the forms together and use of nails and spikes avoided.

26.8. The surface of timber shuttering that would come in contact with concrete shall be well wetted and coated with soap solution before the concreting is done. Alternatively coat of raw linseed oil or oil of approved manufacture may be applied in place of soap solution. In case of steel shuttering either soap solution or raw linseed oil shall be applied after thoroughly cleaning the surface. Under no circumstances black or burnt oil shall be permitted.



## Gujarat Energy Transmission Corporation Ltd.

Transmission Circle Office, Near 66kV Sub-station, Keriya Road,  
Amreli – 365 601.

e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



**26.9.** The shuttering for beams and slabs shall have camber of 4 mm. per metre

**26.10.** (1in250) or as directed by the Engineer-in-Charge so as to offset the subsequent deflection. For cantilevers, the camber at free end shall be 1/50 of the projected length or as directed by the Engineer-in-Charge.

### M-29 Teak wood

29.1 The teak wood shall be of good quality as required for the item to be executed. When the kind of wood is not specifically mentioned, good Indian teak wood as approved shall be used.

29.2 Teak wood shall generally be free from large, loose dead or cluster knots, flaws shakes, warps, twists, bends or any other defects, it shall generally be uniform in substance and of straight fibres as far as possible. It shall be free from rot decay, harmful fungi and other defects of harmful nature which will affect the strength, durability or its usefulness for the purpose for which it is required. The colour shall be uniform as far as possible. Any effort like painting using any adhesive materials made to hide the defects shall render the pieces liable to rejection by the Engineer-in-Charge.

29.3 All scantlings, planks etc., shall be sawn in straight lines and planes in the direction of grains and of uniform thickness.

29.4 The tolerances in the dimensions shall be allowed at the rate of 1.5 mm. per face to be planed.

### 29.5. First class teak wood

29.5.1. First class teak wood shall have no individual hard and sound knots, more than 6 sq. cm. in size and the aggregate area of such knots shall not be more than 1% of area of piece. The timber shall be closed grained.

### 29.6. Second Class Teak Wood :

29.6.1.No individual hard and sound knots shall be more than 15 sq. cms. in size and aggregates area of such knots shall be not exceed 2% of the area of piece.

### M- 31. Aluminum doors, windows ventilators

**31.1.** Aluminum alloy used in the manufacture of extruded window sections shall conform to I.S. designation HEA-WP of I.S. 733-1975 and also to I.S. Designation WVG-WP of I.S. 1285-1975.The-section shall be as specified in the drawing and design. The fabrication shall be done as directed.

31.2. The hinges shall be cast or extruded aluminum hinges of same type as in window but of larger size. The hinges shall normally be of 50 mm. projecting type. Non-projecting type of hinges may also be used if directed. The handles of door shall be of specified design. A suitable lock for the door operable either from outside or inside shall be provided. In double shutter door, the first closing shutter shall have concealed aluminum alloy bolt at top and bottom.

### M-32. Rolling Shutters

**32.1.** The rolling shutters shall conform to I.S.6248-1979. Rolling shutters shall be supplied of specified type with accessories. The size of the rolling shutters shall be specified in the drawings. The shutters shall be specified in the drawings. The shutters shall be constructed with interlocking lath sections formed from cold rolled steel strips not less than 0.9 mm. thick and 80 mm. wide for shutters up to 3.5 m. width not less than 1.25 mm. thick and 80 mm. wide for shutters 3.5 m. in width and above, unless otherwise specified.

**32.2.** Guide channels shall be of mild steel deep channel section and of rolled pressed or built-up (fabricated ) joint less construction. The thickness of sheet used shall not be less than 3.15 mm.

**32.3.** Hood covers shall be made of M.S. Sheets not less than 0.90 mm. thick. For shutters having width 3.5 Meter and above, the thickness of M.S. sheet for the hood cover shall be not less than 1,25 mm.



## Gujarat Energy Transmission Corporation Ltd.

Transmission Circle Office, Near 66kV Sub-station, Keriya Road,  
Amreli – 365 601.

e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



**32.4.** The spring shall be of best quality and shall be manufactured from tested high tensile spring steel wire or strip of adequate strength to balance the shutters in all position.

The spring pipe shaft etc. shall be supported on strong M.S. or malleable C.I. brackets. The brackets shall be fixed on or under the lintel as specified with rawl plugs and screws bolts etc.

**32.5.** The rolling shutters shall be of self rolling up to 8 Sq. m. clear area without ball bearing and up to 12 Sq.m. clear area with ball bearing. If the rolling shutters are of larger, then gear operated type shutters shall be used.

**32.6.** The locking arrangement shall be provided at the bottom of shutter at both ends. The shutters shall be opened from outside.

**32.7.** The Shutters shall be completed with door suspension shafts, locking arrangements, pulling hooks, handles and other accessories.

### M-33. Collapsible Steel Gate

**33.1.** The collapsible steel gate shall be in one or two leaves and size as per approved drawings or as specified. The gate shall be fabricated from best quality mild steel channels, flats, etc. Either steel pulleys or ball bearings shall be provided in every double channel. Unless otherwise specified the particulars of collapsible gate shall be as under :

(a) Pickets : These shall be of 20mm MS channels of heavy sections unless otherwise shown on drawings. The distance centre to centre of pickets shall be 12 cms. with an opening of 10 cms.

(b) Pivoted MS flats shall be 20 mm x 6 mm.

(c) Top and bottom guides shall be from tee or flat iron of approved size.

(d) The fittings like stoppers, fixing hold fasts, locking cleats, brass handles and cast iron rollers shall be of approved design and size.

### M- 37. Plywood

**37.1.** The plywood for general purpose shall conform I.S.303-17-1975

Plywood is made by cementing together than boards or sheets of wood into panels. There are always an odd number of layers, 3,5,7,9, ply etc. The plies are placed so that grain of each layer is at right angles to the grain in the adjacent layer.

**37.2.** The chief advantages of plywood over a single board of the same thickness is the more uniform strength of the plywood, along the length and width of the plywood and greater resistance to cracking and splitting with change in moisture content.

**37.3.** Usually synthetic resins are used of gluing, phenol resins are usually cured in a hot press which compresses and simultaneously heats the plies between hot plates which maintainatempereatureof90degree C to 140 degree C and a pressure of 11 to 14 Kg/Sq. Cm. on the wood. The time of heating may be. anything from 2 to 60 minutes depending upon thickness.

**37.4.** When water glue are used the wood absorbs so much water that the finished plywood must be dried carefully. When synthetic resins are used as adhesive the finished plywood must be exposed to an atmosphere of controlled humidity until the proper amount of moisture has been absorbed.

**37.5.** According to I.S: 303-1975 the plywood for general purpose shall be of the grades namely BWR, WWR and CWR, depending upon the adhesives used for bonding the veneers, and it will be further classified into six types namely AA, AB, AC, BB, BC and CC based on the quality of the two faces each face being of three kinds namely A, Band C After pressing, the finished plywood should be reconditioned to a moisture content not less than 8 percent and not more than 16 percent. Thickness of plywood Boards :

**TABLE**

Board	Thickness	Board	Thickness	Board	Thickness	Board	Thickness
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## Gujarat Energy Transmission Corporation Ltd.

Transmission Circle Office, Near 66kV Sub-station, Keriya Road,  
Amreli – 365 601.

e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



3 ply	3mm	5 ply	5mm	7 ply	9mm	9 ply	16mm
	4mm		6mm		13mm		19mm
	5mm		7mm		16mm	11 Ply	19mm
	6mm		8mm	9 ply	13mm		25mm

### M-38. Glass

**38.1.** All glass shall be of the best quality, free from specks, bubbles, smokes veins, air holes, blisters, and other defects. The kind of glass to be used shall be as mentioned in the item or specification or in the special provision or as shown in detailed drawings. Thickness of glass panes shall be uniform. The specifications for different kinds of glass shall be as under.

#### 38.2. Sheet Glass

**38.2.1.** In absence of any specified thickness or weight in the item or detailed specifications of the item of work, sheet glass shall be weighing 7.5 Kg/Sq. m. for panes up to 600 mm. x 600 mm.

**38.2.2.** For panes larger than 600 mm. x 600 mm. and up to 800 mm. x 800 mm. the glass weighing not less than 8.75 Kg/Sq. m. shall be used For bigger panes up to 900 mm. x 900 mm. glass weighing not less than 8.75 Kg/Sq. m. shall be used. For bigger panes up to 900 mm. x 900 mm. glass weighting not less than 11.25 Kg/Sq. m. shall be used.

**38.2.3.** Sheet glass shall be patent flattened glass of best quality and for glazing and framing purposes shall conform to I.S. : 1761-1960. Sheet glass of the specified colours shall be used, if so shown, on detailed drawings or so specified. For important buildings and for panes with any dimension over 900 mm. plate glass of specified thickness shall be used.

#### 38.3. Plate Glass :

**38.4. 38.3.1.** When plate glass is specified it shall be " polished patent plate glass " of best quality It shall have both the surface ground, flat and parallel and polished to obtain clear undisturbed vision and reflection. The plate glass shall be of the thickness mentioned in the item or as shown in the detailed drawing or as specified. In absence of any specified thickness, the thickness of plate glass to be-supplied shall be 6 mm. and a tolerance of 0.20 mm. shall be admissible.

#### 38.4. Obscured Glass :

**38.4.1.** This type of glass transmits light so that vision is partially or almost completely obscured. Glass shall be plain rolled, figured, ribbed or fluted, or frosted glass as may be specified as required. The thickness and type of glass shall be as per details on drawings or as specified or as directed.

#### 38.5. Wired Glass :

**38.5.1.** Glass shall be with wire netting embedded in a sheet of plate glass. Electrically welded 13 mm. Georgian square mesh shall be used. Thickness of glass shall not be less than 6 mm. Wired glass shall be of type and thickness as specified.

### M-40. Particle board

**40.1.** The particle boards used for face panels shall of best quality free from any defects. The particleboards shall be made with phenol formaldehyde adhesive. The particle boards shall conform I.S.3087-1965. " Specification for wood particle board for general purpose". The size and the thickness shall be as indicated.

### (1) M-43. Fixtures and fastenings

#### 43.1. General :

**43.1.1.** The fixtures and fastenings, that is butt hinges tee and strap hinges sliding door bolts, tower bolts, door latch, bath-room latch, handles, door stoppers, casement window fasteners, casement stays, and ventilators catch shelf be made of the metal as specified in the item or its specification.

**43.1.2.** They shall be of iron, brass, aluminum chromium plated iron, chromium plated brass, copper oxidized iron, copper oxidized brass or anodized aluminum as specified.



## Gujarat Energy Transmission Corporation Ltd.

Transmission Circle Office, Near 66kV Sub-station, Keriya Road,  
Amreli – 365 601.

e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



**43.1.3.** The fixtures shall be heavy medium or light type. The fixtures and fastenings shall be smooth finished and shall be such as will ensue ease of operations.

**43.1.4.** The samples of fixtures and fastenings shall be got approved as regards, quality and shape before providing them in position

**43.1.5.** Brass and anodized aluminum fixtures and fastenings shall be bright finished.

### **43.2. Holdfasts :**

**43.2.1.** Holdfasts shall be made from mild steel flat 30 cm. length and one of the holdfasts shall be bent at right angle and two nos. of 6 mm. diameter holes, shall be made in it for fixing it to the frame with screws. At the other end, the holdfast shall be forked and bent at right angles in opposite directions.

### **43.3. Butt hinges :**

**43.3.1.** Railway standard heavy type butt hinges shall be used when so specified.

**43.3.2.** Tee and strap hinges shall be manufactured from M.S. Sheet

### **43.4. Siding door bolts ( Aldrops ) :**

**43.4.1.** The aldrops as specified in the item shall be used and shall be got approved.

### **43.5. Tower bolts ( Barrel Type ) :**

**43.5.1.** Tower bolts as specified in the item shall be used and shall be got approved.

### **43.6. Door Latch :**

**43.6.1.** The size of door latch shall be taken as the length of latch.

### **43.7. Bathroom Latch :**

**43.7.1.** Bathroom latch shall be similar to tower bolt.

### **43.8. Handle:**

The size of the handles shall be determined by the inside grip length of the handles. Handles shall have a base plate of length 50 mm. more than the size of the handle.

### **43.9. Door Catch :**

**43.9.1.** Door stoppers shall be either floor door stopper type or door catch type. Floor stopper shall be of overall size as specified and shall have a rubber cushion.

### **43.10. Door Stoppers :**

**43.10.1.** Door catch shall be fixed at a height of about 900 mm. from the floor level such that one part of the catch is fitted on the inside of the shutter and the other part is fixed in the wall with necessary wooden plug arrangements for appropriate fixity. The catch shall be fixed 20 mm. inside the face of the door for easy operation of catch.

### **43.11. Wooden Door Stop with hinges :**

**43.11.1.** Wooden door stop of size 100 mm. x 60 mm. x 40 mm. shall be fixed on the door frame with hinges of 75 mm. size and at a height of 900 mm. from the floor level. The wooden door stop shall be provided with 3 coats of approved oil paint.

### **43.12. Casement Window Fastener :**

**43.12.1.** Casement window fastener for single leaf window shutter shall be left or right handed as directed.

### **43.13. Casement stays ( Straight Fed Stay ) :**

**43.13.1.** The stays shall be made from a channel section having three holes at appropriate position so that the window can be opened either fully or partially as directed. Size of the stay shall be 250 mm. to 300 mm. as directed.

### **43.14. Ventilator Catch :**

**43.14.1.** The pattern and shape of the catch shall be as approved.

### **43.15. Pivot:**





## Gujarat Energy Transmission Corporation Ltd.

Transmission Circle Office, Near 66kV Sub-station, Keriya Road,  
Amreli – 365 601.

e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



**43.15.1.** The base and socket plate shall be made from minimum 3 mm. thick plate, and projected pivot shall not be less than 12 mm-, diameter and 12 mm. length and shall be firmly riveted to the base plate in case of iron pivot and in single piece plate in the case of brass pivot.

### **M-44. Paints :**

#### **44.1. (A) Oil paints :**

**44.1.1.** Oil paints shall be of the specified colour and as approved. The ready mixed paints shall only be used. However, if ready mixed paint of specified shade or tint is not available white ready mixed paint with approved strainer will be allowed. In such a case, the contractor shall ensure that the shade of the paint so allowed shall be uniform.

**44.1.2.** All the paints shall meet with the following general requirements

(i) Paint shall not show excessive setting in a freshly opened full can and shall easily be re dispersed with a paddle to a smooth homogeneous state. The paint shall show no curdling, livering, caking or colour separation and shall be free from lumps and skins.

(ii) The paint as received shall brush easily, possess good levelling properties and show no running or sagging tendencies.

(iii) The paint shall not skin within 48 hours in a three quarters filled closed container.

(iv) The paint shall dry to a smooth uniform finish free from roughness, grit unevenness and other imperfections.

**44.1.3.** Ready mixed paint shall be used exactly as received from the manufacturers and generally according to their instructions and without any admixtures whatsoever.

#### **44.2. (B) Enamel paints :**

**44.2.1.** The enamel paint shall satisfy in general requirements in specification of oil paints, Enamel paint shall conform to I.S.2933-1975

### **M-46. Marble chips for marble mosaic terrazzo**

**46.1.** The marble chips shall be of approved quality and shades. It shall be hard, sound, dense and homogeneous in texture with crystalline and coarse grains. It shall be uniform in colour and free from stains cracks, decay and weathering.

**46.2.** The size of various colours of marble chips ranging from the smallest up to 20 mm shall be used where the thickness of top wearing layer is 6 mm. size. The marble chips of approved quality and colours only as per grading as decided by the Engineer-in-charge shall be used for marble mosaic tiles or works.

**46.3.** The marble chips shall be machine crushed. They shall be free from foreign matter, dust etc. except as above, the chips shall conform to I S.2114-1962.

### **M-47. Flooring Tiles.**

#### **47.1. (A) Plain Cement tiles ;**

**47.1.1.** The plain cement tiles shall be of general purpose type. These are the tiles in the manufacture of which no pigments are used. Cement used in the manufacture of tiles shall be as per Indian Standards.

**47.1.2.** The tiles shall be manufactured from a mixture of cement and natural aggregates by pressure process. During manufacture the tiles shall be subjected to pressure of not less than 140Kg/Sq.Cm. The proportion of cement to aggregate in the backing of the tiles shall be not less than 1 : 3 by weight. The wearing face, through the tiles are of plain cement, shall be provided with stone chips of 1 to 2 mm. size. The proportions of cement to aggregate in the wearing layer of the tiles shall be three parts of cement to one parts chips by weight. The minimum thickness of wearing layer shall be 3 mm. The colour and texture of wearing layer shall be uniform throughout its face and thickness. On removal from mould, the tiles shall be kept in moist condition continuously at least for seven days and subsequently, if necessary, for such long period as would ensure their conformity to requirements of I.S. 1237-1980 regarding strength resistance to wear and water absorption.





## Gujarat Energy Transmission Corporation Ltd.

Transmission Circle Office, Near 66kV Sub-station, Keriya Road,  
Amreli – 365 601.

e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



**47.1.3** The wearing face of the tiles shall be plane, free from projections, depressions and cracks and shall be reasonably parallel to the back face of the tile. All angles shall be right angle and all edges shall be sharp and true.

**47.1.4.** The size of tiles generally be square shape 24.85 Cm x24.85 Cm. or 25 Cm x 25 Cm. The thickness of tiles shall be 20 mm.

**47.1.5.** Tolerance of length and breadth shall be plus of minus one millimeter. Tolerance on thickness shall be plus 5 m.m.

**47.1.6.** The tiles shall satisfy the tests as regards transverse strength; resistance to wear and water absorption as per I.S. 1237-1980.

### **47.2.(B) Plain Coloured Tiles:**

**47.2.1.** The tiles shall have the same specification as for plain cement tiles as per ( A ) above except that they shall have a plain wearing surface wherein pigments are used. They shall conform to I.S.1237-1980.

**47.2.2.** The pigments used for colouring cement shall not exceed 10 percent by weight of cement used in the mix. The pigments, synthetic or otherwise, used for colouring tiles shall have permanent colour and shall not contain materials detrimental to concrete.

**47.2.3.** The colour of the tiles shall be specified in the item or as directed.

### **47.3. (C) Marble mosaic tiles :**

**47.3.1.** These tiles have same specification as per plain cement tiles except the requirements as stated below:

**47.3.2.** The marble mosaic tiles shall conform to I.S. 1237-1980. The wearing face of the tiles shall be mechanically ground and filled. The wearing face of tiles shall be free from projections, depressions, and cracks and shall be reasonably parallel to the back face of the tiles. All angles shall be right angles and all edges shall be sharp and true.

**47.3.3.** Chips used in the tiles be from smallest unto 20 mm. size. The minimum thickness of wearing layer of tiles shall be 6 mm. For pattern of chips to be used on the wearing face, a few samples with or without their full size photographs as directed shall be approved by the Engineer-in-Charge, for approval.

**47.3.4.** Any particular samples if found suitable shall be approved by the Engineer - in - Charge, or he may ask for a few more samples to be presented. The sample shall have to be Made by the contractor till a suitable sample is finally approved for use in the work. The Contractor shall ensure that the tiles supplied for the work shall be in conformity with the approved sample only, in terms of its dimensions thickness of backing layer and wearing surface, materials, ingredients, colour, shade, chips, distribution etc. required.

**47.3.5.** The tiles shall be prepared from cement conforming to Indian Standards or Coloured Portland cement generally depending upon the colour of tiles to be used or as directed.

### **47.4. (D) Chequered Tiles :**

**47.4.1.** Chequered tiles shall be plain cement tiles or marble mosaic tiles. The former shall have the same specification as per (A) above and the latter as per marble mosaic tiles as per (C) except as mentioned below .

**47.4. 2.** The tiles shall be of nominal size of 250 mm. x 250 mm. or as specified. The centre to centre distance of chequer shall not be less then 25 mm. and not more than 50 mm. The overall thickness of the tile shall be 22 mm.

**47.4.3.** The grooves in the chequers shall be uniform and straight. The. depth of the grooves shall not be less than 3 mm. The chequered tiles shall be plain coloured or mosaic as specified. The thickness of the upper layer measured from the top of the chequers shall not be less than 6 mm. The tiles shall be given the first grinding with machine before delivery to site.

**47.4.4.** Tiles shall conform or relevant I.S. 1237-1980.



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### 47.5. (E) Chequered Tiles For Stair Cases :

47.5.1. The requirements of these tiles shall be the same as chequered tiles as per ( D ) above except in following respects :

- (1) The length of a tile including nosing shall be 300 mm.
- (2) The minimum thickness shall be 28 mm.
- (3) The nosing shall have also the same wearing layer as at the top.
- (4) The nosing edge shall be rounded.
- (5) The front portion of the tile for a minimum length of 75 mm. from and including the nosing shall have grooves running parallel to nosing and at centers not exceeding 25 mm. Beyond that the tiles shall have normal chequer pattern.

### M-49. Polished Kotah Stones

49.1. Polished Kotah stone shall have the same specification as per rough Kotah stone except as mentioned below :

49.2. The stones shall have machine polished surface. When brought on site, the stones shall be single polished or double polished depending upon its use. The stones for paving shall generally be single polished. The stones to be used for dado, skirting, sink, veneering, sills, steps, etc. where machine polishing after the stones are fixed in situ is not possible shall be double polished.

### M-55. White glazed tiles

55.1. The tiles shall be of best quality as approved by the Engineer-in-Charge. They shall be flat and true to shape. They shall be free from cracks, crazing spots, chipped edges and corners. The glazing shall be of uniform shade.

55.2. The tiles shall be nominal size of 150 mm. x 150 mm. unless otherwise, specified. The maximum variation in the stated sizes, other than the thickness of tile shall be plus or minus 1.5 mm. The thickness of tile shall be 6 mm. Except as above the tiles shall conform to I.S. 1977-1970.

### M-56. Galvanized iron pipes and fittings

56.1. Galvanized iron pipes shall be of the medium type and of required diameter and shall comply with I.S.1239-1979. The specified diameter of the pipes shall refer to the inside diameter of the bore. Clamps, screw and all galvanized iron fittings shall be of the standard ' R ' or equivalent make.

### M-57. Bib cock and stop cock

57.1. A bib cock is a draw off tap with a horizontal inlet and free outlet. A stop cock is a valve with a suitable means of connection for insertion in a pipe line for controlling or stopping the flow.

57.2. They shall be of screw down type and of brass chromium plated and of diameter as specified in the description of the item. They shall conform to I.S. 781-1977 and they shall be of best Indian make. They shall be polished bright.

57.3. The minimum finished weight of bib cock and stop cock shall be as given below :

Diameter	Bib cock	Stop cock	Diameter	Bib cock	Stop cock
8mm	0.25kg	0.25 kg	15mm	0.40kg	0.40 kg
10mm	0.30 kg	0.35 kg	20mm	0.75kg	0.75 kg

### M-58. Gun metal wheel valve

58.1. The gun metal wheel valve shall be of approved quality. These shall be of gun metal fitted with wheel and shall be of gate valve opening full way and of the size as specified. These shall conform to I.S.778-1971.

### M-59. White glazed porcelain wash basin

59.1. Wash basin shall be of white porcelain first quality best Indian make and it shall conform to I.S.2556.(Part-IV ) -1972 and I.S.771-1979. The size of the wash basin shall be as specified in the item. Wash basin shall be of one piece construction with continued overflow arrangements. All



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internal angles shall be designed so as to facilitate cleaning. Wash basin shall have single tap hole or two holes as specified. Each basin shall have a circular waste hole which is either rebated or beveled internally with 65mm. diameter at top and 10 mm. depth to suit the waste fitting. The necessary stud slot to receive the bracket on the underside of the basin shall be provided Basin shall have an internal soap holder recess which shall fully drain into the bowl.-

59.2. White glazed pedestal of inequality and color as that to the basin shall be provided where specified in the item. It shall be completely recessed at the back for reception of supply and wash pipe. It shall be capable of supporting the basin rigidly and adequately and shall be so designed as to make the height from the floor to top of the rim of basin 750 mm. to 800 mm. as directed.

### **M-60. European type water closet / with low level flushing.**

60.1 The European type water closet shall be white / coloured glazed porcelain first quality and shall be of wash down type conforming to IS 2556 – 1973 and IS 771 – 1979.

60.2 'S' trap shall be provided as required with water seal not less than 50mm. The solid plastic seat and cover shall be of the best Indian make conforming to IS 2548 – 1980. They shall be made of moulded synthetic materials which shall be tough and hard with high resistance to solvents and shall be free from blisters and other surface defects and shall have chromium plated brass hinges and rubber buffer of suitable size.

### **M-61. Orissa type water closet**

61.1 The specification of Orissa type white / coloured glazed water closet of first quality shall conform to IS 256 (Part III) 1981 and relevant specification of Indian type water closet except that pan will be with the integral squatting pan of size 580 mm x 440 mm with raised footrest.

### **M-62. Indian type water closet**

62.1. The Indian type white glazed water closet of first quality shall be of size as specified in the item and conforming to I.S. : 771-1979 and I.S. :2556- (Part -II) 1981. Each pan shall have integral flushing. It shall also have an inlet at black an or front for connecting flush pipes as directed, The inside of the bottom or the pan shall have sufficient slope from the front towards the outlet and surface shall be uniform and smooth. Pan shall be provided with 100 mm. diameter 'P' or 's' trap with approximately 50 mm. Water seal and 50 mm. diameter vent horn.

### **M-62. A. Foot Rests**

62.A. 1. A pair of whit glazed earthen ware rectangular foot to minimum size 250 mm. x 130 mm. x 20 mm. shall be provided with the water closet.

### **M-64. Glazed earthen-ware Lipped type flat back urinal/corner type urinal**

64.1. The lipped type urinal shall be flat back or corner type as specified in the item and shall conform to I.S.771-1979. It shall be of best Indian make and. size as specified and approved by the Engineer-in-Charge. The flat back of corner type urinal must be of 1st quality free from any defects, cracks etc.

### **M-67. Flush cock.**

67.1. Half turn flush cock (Heavy weight) shall be of gun metal chromium plated of diameter as specified in the description of the item. The flush cock shall conform to relevant Indian Standard.

### **M-68. Cast iron pipes and fittings.**

68.1. All soil, water, vent and anti-siphonage pipes and fitting shall conform to I.S.1729-1964.The-pipesshall have spigot and socket ends with head on spigot end. The pipes and fitting shall be true to shape, smooth, cylindrical, their inner and outer surfaces being as nearly as practicable concentric. They shall be sound and nicely cast and shall be free from cracks, laps, pinholes or the imperfection and shall be neatly dressed and carefully fettled.

68.2. The end of pipes and fittings shall be reasonable square to their axis.



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68.3. The sand of cast iron pipes shall be of the diameter as specified in the description and shall be in lengths of 1.5 M., 1.8 M. including socket ends of the pipe unless shorter lengths are either specified or required at junctions etc. The pipes and fittings shall be supplied without ears unless specified or directed otherwise.

### 68.4. Tolerances :

**68.4.1.** The Standard weights and thickness of pipes shall be as shown in the following table.

A tolerance up to minus 10 per cent may however be allowed against these standard weights.

Sr. No.	Nominal dia. of bore	Thickness	Overall 1,5 m. long	Weight of pipe 1.8 m. long	excluding ears 2.m. long
1	75mm	5mm	12.38kg	16.52kg	18.37kg
2	100mm	5mm	18.14kg	21.67 kg	24.15kg

**68.4.2.** A tolerance up to minus 15 percent in thickness and 20 mm. length will be allowed. For fittings tolerance in lengths shall be plus 25 mm. and minus 10 mm.

**68.4.3.** The thickness of fittings and their socket and spigot dimensions shall conform to the thickness and dimensions specified for the corresponding sizes of straight pipes. The tolerance in weights and thickness shall be the same as for straight pipes.

### M-69. Nahni Trap

**69.1.** Nahni trap shall be of cast iron and shall be sound and free from porosity or other defects which affect serviceability. The thickness of the base metal shall not be less than 6.5mm. The surfaces shall be smooth and free from craze, chips and other flaws or any other kind of defects which affect serviceability. The size of Nahni trap shall be specified and shall be of self cleaning design.

**69.2.** The Nahni trap shall be of quality approved by the Engineer-in-Charge and shall generally conform to the relevant Indian Standards.

**69.3.** The Nahni trap provide shall be with deep seal, minimum 50 mm. except at places where trap with deep seal cannot be accommodated. The cover shall be cast iron perforated cover shall be provided on the trap of appropriate size.

### M-70. Gully Trap

**70.1.** Gully trap shall conform to I.S.651 -1980. It shall be sound, free from defects such as fire cracks or hair. cracks. The glaze of the traps shall be free from crazing. They shall give a sharp clear note when struck with light hammer. There shall be no broken blisters.

**70.2.** The size of the gully trap shall be as specified in the item.

**70.3.** Each gully trap shall have one C.I. grating of square size corresponding to the dimensions, of inlet of gully trap. It will also have a water tight C.I. cover with frame inside dimensions 300mm.x300mm. the cover with frame inside dimensions 300 mm. x 300 mm. the cover and weighing not less than 4.53 Kg. and the frame not less than 2.72 Kg. The grating cover and frame shall be of sound and good casting and shall have truly square machined seating faces.

### M 71. Glazed Stone Ware pipe And Fittings

**71.1.** The pipes and fittings shall be of best quality as approved by the Engineer – in - Charge. The pipe shall be of best quality manufactured from stone-ware of fire clay, salt glazed thoroughly burnt through the whole thickness, of a close even texture, free from air blows, fire blisters, cracks and other imperfections, which affect the serviceability. The inner and outer surfaces shall be smooth and perfectly glazed. The pipe shall be capable to withstand pressures or 1.5 M. lead without showing sign of leakage. The thickness of the wall shall not be less than 1/12th of the internal dia. The



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depth of socket shall not be less than 38 mm. The socket shall be sufficiently large to allow a joint of 6 mm. around the pipe.

The pipes shall generally conform to relevant I.S.651-1980.

### M-78 Barbed Wire

78.1: The barbed wire shall be of galvanized steel and it shall generally conform to I.S.278-1978. The barbed wire shall be of type-I whose nominal diameter for line wire shall be 2.5 mm. and point wire 2.24 mm. The nominal distance between two barbs shall be 75 mm. unless otherwise specified in the item. The barbed wire shall be formed by twisting together two line wires. One containing the barbs. The size of the line and point wires and barb spacing shall be as specified above. The permissible deviation from the nominal diameter of the line wire and point wire shall not exceed + 0.08 mm.

78.2. The barbs shall carry four points and shall be formed by twisting two point wires, each two turns, lightly round one line wire, making altogether four complete turns. The barbs shall have a length of not less than 13 mm. and not more than 18 mm. The point shall be sharp and cut at an angle not greater than 35 degree of the axis of the wire forming the barbs.

78.3. The line and point wires shall be circular in section, free from scale and other defects and shall be uniformly galvanized. The line wire shall be in continuous length and shall not contain any welds other than those in the rod before it is drawn. The distance between two successive splices shall not be less than 15 metres.

78.4. The lengths per 100 Kg. of barbed wire I.S. type I shall be as under: Nominal 1000 metre Minimum 934 Metre Maximum 1066 Metre

### DETAIL SPECIFICATION FOR WORK ITEMS:-

#### REMOVING PLASTER/PAINT

Removing existing plasterwork including scaffolding & throwing the stuff to any lead and lift etc. complete as directed by E.I.C.

#### CUTTING OUT CRACKS

Cutting out cracks, of roof terrace to V. section, cleaning out, wetting, grouting with cement and sand slurry 1: 3 (1 cement : 3 sand)

#### DISMANTLING AND DEMOLISHING

**(i) Dismantling:** The term 'Dismantling' implies carefully separating the parts without damage and removing. This may consist of dismantling one or more parts of the building as specified or shown on the drawings.

**(ii) Demolition:** The term 'Demolition' implies breaking up. This shall consist of demolishing whole or part of work including all relevant items as specified or shown on the drawings.

Dismantling tiled of stone floors laid in mortar including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift.

#### Precautions





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1.1.1 All materials obtained from dismantling or demolition shall be the property of the Government unless otherwise specified and shall be kept in safe custody until they are handed over to the Engineering-Charge/ authorized representative.

1.1.2 The demolition shall always be well planned before hand and shall generally be done in reverse order of the one in which the structure was constructed. The operations shall be got approved from the Engineer-in-Charge before starting the work. Due care shall be taken to maintain the safety measures prescribed in IS 4130.

1.1.3 Necessary propping, shoring and or under pinning shall be provided to ensure the safety of the adjoining work or property before dismantling and demolishing is taken up and the work shall be carried out in such a way that no damage is caused to the adjoining work or property. Wherever specified, temporary enclosures or partitions and necessary scaffolding with suitable double scaffolding and proper cloth covering shall also be provided, as directed by the Engineer-in-Charge.

1.1.4 Necessary precautions shall be taken to keep noise and dust nuisance to the minimum. All work needs to be done under the direction of Engineer-in-Charge. Helmets, goggle, safety belts etc. should be used whenever required and as directed by the Engineer-in-Charge. The demolition work shall be proceeded with in such a way that it causes the least damage and nuisance to the adjoining building and the public.

1.1.5 Dismantling shall be done in a systematic manner. All materials which are likely to be damaged by dropping from a height or by demolishing roofs, masonry etc. shall be carefully removed first. Chisels and cutters may be used carefully as directed. The dismantled articles shall be removed manually or otherwise, lowered to the ground (and not thrown) and then properly stacked as directed by the Engineer-in-Charge.

1.1.6 Where existing fixing is done by nails, screws, bolts, rivets, etc., dismantling shall be done by taking out the fixing with proper tools and not by tearing or ripping off.

1.1.7 Any serviceable material, obtained during dismantling or demolition, shall be separated out and stacked properly as directed by the Engineer-in-Charge with all lead. All unserviceable materials, rubbish etc. shall be disposed off as directed by the Engineer-in-Charge.

1.1.8 The contractor shall maintain/disconnect existing services, whether temporary or permanent, where required by the Engineer-in-Charge.

1.1.9 No demolition work should be carried out at night especially when the building or structure to be demolished is in an inhabited area.

1.1.10 Screens shall be placed where necessary to prevent injuries due to falling pieces.

1.1.11 Wherever required, temporary enclosures or partitions shall also be provided. Necessary precautions shall be taken to keep the dust nuisance down as and where necessary.

1.1.12 On completion of work, the site shall be cleared of all debris rubbish and cleaned as directed.

1.1.13 Water may be used to reduce dust while tearing down plaster from brick work.





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1.1.14 Safety belts shall be used by labourers while working at higher level to prevent falling from the structure.

1.1.15 First-aid equipment shall be got available at all demolition works of any magnitude.

### 2.0. MODE OF MEASUREMENTS AND PAYMENT

2.1. The rate shall include cost of all labour involved and tools used in demolishing and dismantling including scaffolding. The rate shall also include the charges for separating out and stacking the serviceable materials properly and disposing the unserviceable materials with all lead and lift. The rate also includes for temporary shoring for the safety of the portion not required to be pulled down or of adjoining property and providing temporary enclosures or portions where considered necessary.

2.2. The rate shall be for a unit of CMT for demolition for RCC Work and SMT for Removing of plaster respectively.

### 1.0. Materials

(1) Water shall conform to M-1. (2) Cement shall conform to M-3. (3) Sand shall conform to M 6.

### 2.0. Workmanship

2.1. The cracks shall be cleaned out and trimmed to V shaped cuts at least 6 mm wide on top. The cracks shall be cleaned off and then cracks shall be thoroughly flooded with water, water allowed to a soak in cracks, and then grouted with cement and sand slurry in proportion 1:3. The required cracks shall be cured at least 7 days.

### 3.0. Mode of measurements and payment

3.1. The rate shall include cost of all materials and labour required for satisfactory completion of item as described above,

3.2. The rate shall be for a unit of One running metre.

**Providing 15 mm. thick cement plaster in single coat in C. M. (1:4) on fair side brick / concrete wall for interior plastering of floor two level including finishing the surfaces with smooth cement finishing, necessary drip moulding, scaffolding, curing with three coats of the white wash or colour wash as directed by E. I. C.**

### 1.0 Materials

1.1 Water M-1. The cement mortar of proportion 1:4 shall confirm to M-13.

### 2.0 Workmanship

2.1 Scaffolding : Wooden ballies, bamboos, planks, trestles and other scaffolding shall be sound. These shall be properly examined before erection and use. Stage scaffolding shall be provided for ceiling plaster which shall be independent of the walls.

2.2 Preparation of back ground :

2.2.1 The surface shall be cleaned of all dust, loose mortar droppings, traces, of algae, efflorescence and other foreign matter by water or by brushing. Smooth surface shall be roughened by wire brushing if it is not hard and by racking if it is hard. In case of concrete surface, if a chemical retardant has been applied to the hard and by racking if it is hard. In case of concrete surface, if a chemical retardant has been applied to the form work, the surface shall be roughened by wire brushing and all the resulting dust and loose particles cleaned off and care shall be taken that none of the



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retardant is left on the surface. Trimming of projections on brick / concrete surface where necessary shall be carried out to get an even surface.

2.2.2 Raking of joints in case of masonry where necessary shall be allowed to dry out for sufficient period before carrying out the plaster work.

2.2.3 The work shall not be soaked but only damped evenly before applying the plaster. If the surface becomes dry such area shall be moistened again.

2.2.4 For external plaster, the plastering operation shall be started from top floor and carried downwards. For internal plaster, the plastering operations may be started wherever the building frame and cladding work are ready and the temporary supporting ceiling resting on the wall of the floor have been removed. Ceiling plaster shall be completed before starting plaster to walls.

### 2.3 Applications of plaster :

2.3.1 The plaster about 15 x 15 cms. shall be first applied horizontally and vertically at not more than 2 metre intervals over the entire surface to serve as gauge. The surfaces of these gauges shall be truly in plane of the finished plastered surface. The mortar shall then be applied in uniform surface slightly more than the specified thickness, then brought to a true surface by working a wooden straight edge reaching across the gauges with small upward and sideways movement at a time. Finally, the surface shall be finished off true with a trowel or wooden float according as a smooth or a sandy granular texture is required. Excessive trowelling or overworking the float according as a smooth or a sandy granular texture is required. Excessive trowelling or overworking the float shall be avoided. All corners, arises, angles and junctions be truly vertical or horizontal as the case may be and shall be carefully finished. Rounding or chamfering corners, arises, junctions etc. shall be carried out with proper templates to the size required.

2.3.2 Cement plaster shall be used within half an hour after addition of water. Any mortar or plaster which is partially set shall be rejected and removed forthwith from the site.

2.3.3 In suspending the work at the end of the day, the plaster shall be left out clean to the line both horizontally and vertically. When recommencing the plaster, the edges of the old work shall be scraped clean and wetted with cement putty before plaster is applied to the adjacent areas to enable the two to properly join together. Plastering work shall be closed at the end of the day on the body of the wall and nearer than 15cms to any corners or arises. Horizontal joints in plaster work shall not also occur on parapet tops and copings as these invariably lead to leakage. No portion of the surface shall be left out initially to be packed up later on.

2.3.4 Each coat shall be kept damp continuously till the next coat is applied or for a minimum period of 7 days. Moistening shall commence as soon as plaster is hardened sufficiently. Soaking of walls shall be avoided and only as much water as can be readily absorbed shall be used, excessive evaporation on the sunny or windward side of building in hot air or dry weather shall be prevented by hanging matting or gunny bags on the outside of the plaster and keeping them wet.

### 3.0 Mode of measurement & payment:

3.1 The rate shall include the cost of all materials, labour and scaffolding etc. involved in the operations described under workmanship.

3.2 All plastering shall be measured in square metres unless, otherwise specified. Length, breadth or height shall be measured correct to a centimeter.

3.3 Thickness of the plaster shall be exclusive of the thickness of the key i.e. grooves or open joints in brick work, stone work etc. or space between laths. Thickness of plaster shall be average thickness with minimum 10mm at any point on this surface.

3.4 This item includes plastering up to floor two level.

3.5 The measurement of wall plastering shall be taken between the walls or partition (dimensions before plastering being taken) for length and from the top of floor or skirting to ceiling for height. Depth of cover of cornices if any shall be deducted.



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3.6 Soffits of stairs shall be measured as plastering on ceilings. Flowing soffits shall be measured separately.

3.7 For jambs, soffits, sills, etc. for openings not exceeding 0.5 Sq. Mt. each in area for ends of joists, beams, posts, girders, etc. not exceeding 0.5 Sq. Mt. each in area and for openings exceeding 0.5 Sq. Mt. and not exceeding 3.00 Sq. Mt. in each area deductions and additions shall be made in the following manner :

(a) No deduction shall be made for ends of joints, beams, posts, etc. and openings not exceeding 0.5 Sq. Mt. each and no addition shall be made for reveals jambs, soffits, sills etc. of these opening for finish to plaster around ends of joints, beams, posts etc.

(b) Deduction for openings exceeding 0.5 sq.mt. but not exceeding 3 sq.mt. each shall be made as follows and no addition shall be made for reveals, jambs, soffits, sills etc. of these openings.

(i) When both faces of all wall are plastered with same plaster, deduction shall be made for one face only.

(ii) When two faces of wall are plastered with different types of plasters or if one face is plastered and the other pointed, deductions shall be made from the plaster or pointing on the side of frame for door, window etc. on which width of reveals is less than that on the other side but no deductions shall be made on the other side. Where with of reveals on both faces of all equal, deductions of 50 % of area of opening on each face shall be made from area of plaster and / or pointing as the case may be.

3.8 For opening having door frames equal to projecting beyond the thickness of wall, full deduction for opening shall be made from each plastered face of the wall.

3.9 In case of openings of area above 3 sq.mt. each, deduction shall be made for opening but jambs, soffits & sills shall be measured.

The rate shall be for unit of one sq.mtr.

### **Providing and laying cement concrete 1:2:4 (1- Cement : 2- Coarse sand : 4- graded stone aggregates 20 mm nominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth**

1: 2:4 grade of concrete using machine cut black trap of size 12 to 20mm shall be laid using minimum cement content of 300 Kg / Cmt. and free water cement ratio of 0.55. Sample of ingredients to be used shall be got approved.

The general specification of concrete shall be applicable for this item. Rate quoted shall be of all materials, labour, tools, tackles, shuttering, scaffolding, curing, etc. as per item. Concreting work, involved in this item, is for the foundation work for various equipments and machinery.

Payment shall be made on actual cu. M. of concrete work done as per detailed drawing furnished by department.

The pockets to be grouted shall be properly cleaned. Dust and other foreign materials shall be removed. If required, it shall be cleaned by Air blower. If surface is not rough, roughening shall be done, if necessary and instructed by Engineer – in – Charge for bonding purpose. Existing surface shall be applied with thick paste of cement mortar. No separate payment will be admissible for this. Payment shall be made for actual quantity of concrete work done for grouting.

**Providing and laying polished Kota stone slab flooring over 20mm (Average) thick base of cement mortar 1:6 (1-cement : 6-coarse sand) or L.M. 1.1.5 (1-Lime putty :1.5 - coarse sand) laid over and jointed with grey cement slurry mixed with pigment to match the shade of slab including rubbing and polishing etc. complete. (A) 25mm thick**



## Gujarat Energy Transmission Corporation Ltd.

Transmission Circle Office, Near 66kV Sub-station, Keriya Road,  
Amreli – 365 601.

e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



### 1.0. Materials

1.1. Water shall conform to M-1. Lime mortar shall conform to M-10. Cement mortar shall conform to M-11. Polished kota stone shall conform to M-49.

### 2.0. Workmanship

2.1. Each slab shall be cut to the required size and shape and fine chisel dressed at all the edges. The sides trust dressed shall have a full contract if a straight edge is laid along. The sides shall be table rubbed with coarse sand before paving. All angles and edges of the slabs shall be true square and free from chippings and giving a plane surface. The thickness shall be 25 mm. (Average) as specified in the item but not less than 20 mm. at any place of the slab.

2.2. Bedding for the Kota stone slabs shall be of cement mortar 1:6 (1 cement : 6 coarse sand) or .M. 1:1.5. of average thickness 20 mm. given in the description of the item. Sub grade shall be cleaned, wetted and mopped. Mortar of the specified mix and thickness shall then be spread on an area sufficient to receive one kota stone slab. The slab shall be washed clean before laying. It shall be laid on top, pressed, tapped gently to bring it in level with the other slabs. If shall then be lifted and laid aside. Top surface of the mortar shall then be corrected by adding fresh mortar at hollows or depressions. The mortar shall then be allowed to harden bit. Over this surface, cement slurry of honey-like consistency shall be applied. The slab shall then be gently placed in position and tapped with wooden mallet till it is properly padded in level with and close to the adjoining slab. The joint shall be as fine as possible. The slabs fixed in the floor adjoining, the walls shall enter not less than 10 mm. under the plaster, skirting or dado. The junction between the wall and door shall be finished neatly. The finished surface shall be true to levels and slopes as directed.

2.3 The floor shall be kept wet for a minimum period of 7 days so that bedding and joints set properly.

2.4 Polishing shall be normally commenced after 14 days of laying the stone slab. First polishing shall be done with carborundum stones of 120 grade grit fitted in the heavy machine and then second polishing shall be done with carborundum stone of 220 to 350 grade grit fitted in heavy machine. Water shall be properly used during polishing. The stone shall then be washed clean with water. When directed by the Engineer-in-charge, wax polish of approved quality shall be applied on the surface with the help of soft cloth over a clean and dry surface. Then the polishing machine fitted with bobs shall be run over it.

2.5. The holes required for Nahni traps, pipes and any other fittings shall be made without any extra cost.

### 3.0. Mode of Measurement & payment

3.1. The rate shall include the cost of all materials and labour involved in all the operations described above. The kota stone flooring shall be measured in square metres correct to two places decimal, length and breadth shall be measured correct to a centimeter and between the finished face of skirting dado or wall plaster and no deduction shall be made nor extra paid for any opening in floor of areas up to 0.1 sq. mt.

3.2. The rate shall be for a unit of one sq. metre.

**Providing and laying Ceramic tiles 6mm thick in flooring treads of steps and landing laid on a bed of 12mm thick cement mortar 1:3 (1-cement : 3-coarse sand ) finishing with flush pointing in white cement.**

Mode of Measurement: Square Metre.



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e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



**Providing and fixing sandwich type platform including supplying and fixing black granite stone 18 mm thick mirror polished stones in top and side position and vertical strip at front over 25 mm thick polished kotah stone platform fixing in top and sides and intermediates supports sandwiched fixing with cement mortar and adhesive and finishing including To make hall for fixing Kitchen/Laboratory sink , (ceramic sink) 600 mm x 450 mm x 150 mm size(as directed by engineer in charge) at required position etc complete**

Specification in general for Granite stone shall be as per item no. M-52 and Kota stone shall be as per item no. M-49 page no 16 & 17 of Standard Specification booklet for building works.

Necessary groove shall be made in wall polish Kota stone fixing bottom will be first laid in lintel & level on vertical partition. Cement mortar 1:2 (1 cement : 2 sand) shall be laid on Polished Kota Stone and Polished 18 mm th Granite Stone facing top shall be laid on top in line and level. 100 mm high fascia of Granite stone shall be fixed with cement and solution Araldite etc.

Necessary cut for sink shall be left while laying polished Granite & Kotah stone.

Edges & corners of stone shall be made round by cutting as directed. Groove made in wall shall be made good and finished with white cement mixed with pigment to match with colour of stone.

Work includes cost of materials and labour with mirror polishing complete.

Measurement shall be taken for visible top plan area finished dimensions in length and width and shall be paid for a unit of 1 Sq.M.

Rate shall be paid for a unit of 1 Sq.M for visible top plan area.

Mode of Measurement: Sq.M

**Providing & fixing in position partly fixed and partly openable standard extruded Aluminium door with color anodized hollow section frame of approved shade & pivoted double shutter fabricated from aluminium standard section for outer frame size 101 mm x 44.5 mm X 2 mm Thick (of app. Wt. 2.60 kg / Rmt) and door styles and top rail of aluminium section size 47.5mm x 44.5 mm X 2.00 mm Thick (of app. Wt. 1.25 kg/ Rmt) Bottom rail & lockrail for door of size 114mm x 44.5mm X 2 mm Thick (of app. Wt 1.75 Kg/Rmt) and providing rubber gasket and glazing chips around the glass allover including providing heavy handle, heavy lock, bracket, stoppers.Floor Spring,Aldrop (Color anodised) 5 mm th. transparent float glass of copper tint (Structural Glass) fixed with rubber gasket and 19 x 17 mm size Glazing Clip same in Bottom Portion with providing 9 mm thick decorative water proof Both side prelamina-taed pressed wood based board with fixing Glazing clips 19 X 17 mm including all required materials labours and equipments as per detailed drwg. as directed.**

Mode of Measurement: on Sq.M basis.

**providing and fixing aluminium colour anodized single shutters having standard extruded aluminium colour anodized hollow sections frame of size 101 mm x 44.5 mm (approximate**





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e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



wt 1.2 kg per Rmt) and door styles and top rail of aluminium section size 47.5 mm x 44.5 mm (approximate wt 1.05 kg per rmt) and bottom rail and lock rail per door of size 114 mm x 44.5 mm (approximate wt 1.3 kg per rmt) and providing rubber gasket and glazing clips around the glass all over including providing 12 mm thick decorative water proof Both side prelaminaed Partical board with fixing Glasing clips 19 X 17 mm including providing heavy locks handels stoppers pivots door closers and Ground Glass 5 mm thick (Frosted or obscured on one side) on top with fixing Glasing clips 19 X 17 mm including all labour and equipments etc complete

Mode of Measurement: Sq.M

Providing & fixing in position standard extrude Aluminium Three track with Three sliding shutters in which Two Shutters with Glass and one shutter with Stainless Steel Mosquito net In Opening Position always one of Mosquito net shouter should be in Close Position all window section with colour anodized in which Periphery Pipe Frame Section 92.00 x 29.5 X 1.20 mm (having wt per Rmt 1.005 Kg) Pipe Frame section should be Used for Supporting three track top, sides and Bottom section is to e used of size 92.00 x 29.50 x 1.20 mm size (having wt per Rmt 0.907 Kg) Rail Sections all around For Sliding should be Used of 92.00 X 31.50 X 1.20 mm (having Standard wt per Rmt ) and top section for all Three Sliding shutters Top and Bottom rail 20.00 x 50.00 x 1.50 mm ( having weight per Rmt = 0.642 Kg) handle section of size 20.00 x 50.00 x 1.50 ( having weight per Rmt = 0.571 Kg ) and interlock rail 20.00 x 50.00 x 1.50 mm ( having weight per Rmt = 0.697 Kg ) of approved shade & sliding shutters and providing rubber gasket and Glazing Clips if necessary around the glass allover including providing heavy handle, heavy lock, bracket, stoppers.

Mode of Measurement: Sq.M

Providing & fixing in position standard extruded Aluminium Partition with Color anodized hollow section frame of approved shade of without shutter fabricated from aluminium standard section for all around frame size 127 mm x 38.10 mm X 1.35mm (of app. Wt. 1.384 kg / Rmt.) providing rubber gasket and glazing chips around the glass allover including providing heavy handle, heavy lock, bracket, stoppers. 5 mm th. transparent float glass of copper/gray tint (Structural Glass) fixed with transparent silicon gasket including all required materials labours and equipments as per detailed drwg. as directed.

Mode of Measurement: Sq.M

Painting two coats antibacterial paint, brushing, interior to give an even shade including cleaning the surface an even shade including cleaning the surface of all dirt, dust and other foreign matter.

Ability to kill 99% of infection-causing-bacteria on painted surfaces within 2 hours of exposure reduces possibility of respiratory infections and skin sensitization.

neutralises indoor air pollutant like formaldehyde and makes the indoor air healthier to breathe.

### Technical detail





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e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



- a. Drying time: Surface dry time 30 minutes
- b. Recoat ability: 4 – 6 hours @ ambient condition (25°C/65% RH)
- c. Sheen at 60°GH: 8 – 10 units
- d. VOC (ASTM D 3960): < 50 gm/lit
- e. Meets Green assure requirements
- f. Flash point: Not applicable
- g. Stability of Thinned Paint: Use within 24 hours

### Consumption

- 1 Coat - 25 - 29 sq. m./ltr
- 2 Coat - 13 - 15 sq. m./ltr

### Application

**PLASTER** New masonry surfaces must be allowed to cure completely. It is recommended to allow 28 days as the curing time for new masonry surfaces.

**CLEANING** Surface should be free from any loose paint, dust or grease. Growths of fungus, algae or moss should be removed by wire brushing and water. In case of areas having excessive dampness use Asian Paints, Burger paint or equivalent paint.

**DAMP BLOCK** to limit further dampness. When the underlying surface exhibits chalkiness, in spite of thorough surface cleaning, use Asian Paints, Burger paint or equivalent paint smart Care Exterior Sealer.

**FILLING FOR CRACKS** for filling masonry cracks and gaps on all interior absorbent surfaces, up to 3mm width use Asian Paints, Burger paint or equivalent paint Smart Care Crack Seal as per recommended procedure.  
Then applied 2 Coat of paint by means of roller.

Mode of Measurement: Sq. mt.

**Applying two coats of Birla (white cement based) or Asian (acrylic lapy- putty) or equivalent & two coats of primer of approved brand and manufacture on new wall surface to give an even shade including thoroughly brushing the surface free from mortar dropping and other foreign matter and sand papered smooth.**

Mode of Measurement: Sq. mt.

**Removing and refixing anytype of existing door, window OR CUPBORD with frame and shutters including making good the damaged wood work and anytype of aluminium work etc complete.**

Mode of Measurement: Sq. mt.



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e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



**Providing and fixing homogenous Vinyl flooring 2.00mm thick and polyurthane reinforced with weight loss than 2.80 kg/sqmt with good chemical resistant and that which do not fauren fungi and bacterial growth with thickness loss of less than 0.15mm and volume loss than 400mm cube and i roll from jointed by heat seam welding and with 25mm pvc covering at junction and making color coping at the end of seal the joint of tarkett optima spica or equivalent make etc completed as per the design and shade approved by eng.in charge**

Mode of Measurement: Sq. mt.

**Providing, laying and jointing in true line and level UPVC pipe (SCH-40) for cold water including fittings make PRINCE / SUPREME / ASTRAL / FINOLEX or equivalent as approved by Engineer in charge. Pipe shall be fixed on the wall with the help of clamp at every two-meter c/c or shall be concealed as directed including necessary fittings, fastening, fixtures, excavation and back filling. The rates includes testing of pipe and jointing and fixing the same with adhesive solvent, including cost of all materials.**

**b) 25 mm dia pipe**

**c) 40 mm dia pipe**

1.1 The pipe material and specials like bend shoe cowl coupler etc shall confirm to grade and quality specified in relevant IS code. The spout pipe shall be fixed at level, suitable to drain complete rain-water. The vertical pipes shall be truly in plumb, shall be fixed to walls by means of G.I. clamps of approved quality with G.I. studs, saddles etc. complete leak proof test shall be given before payment is realized.

1.2 P. V. C. pipes shall be fixed on wall with wooden plugs and suitable clamps.

1.3 The pipes and sockets shall be accurately cut. The ends of the pipes and fittings should be absolutely free from dirt and dust. The outside surface of the pipes and the inside of the fittings shall then be roughened with emery paper, and then solvent cement joint. Since solvent cement is aggressive to P.V.C., care must be taken to avoid applying excessive cement to the inside of pipe sockets as any surplus cement cannot be wiped off after jointing. Empty solvent cement tins, brushes, rags, or paper impregnated with cement should not be buried in the trenches. They should be gathered, not left scattered about, as they can prove to be a hazard to animals, which may chew them.

1.4 If manufacturer recommends its own methods of jointing, the same shall be adopted after necessary approval from the Engineer - in - Charge.

1.5 Payment shall be given in running length of the pipe irrespective of specials used.

General specifications of water supply piping shall be followed. Rate shall be quoted for the diameter specified with all specials required for completing pipe work as per drawing or as directed.

### **Testing of joints :**

After laying and jointing, the pipes and fittings shall be inspected under working conditions of pressure and flow. Any joints found leaking shall be redone, and all leaking pipes removed and replaced without extra cost.

The pipes and fittings after they are laid shall be tested to hydraulic pressure of 6 Kg/sq. cm. The pipe shall be slowly and carefully charged with water allowing all air to escape and avoiding all



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e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



shock and water hammer. The draw off takes and stop cock shall then be closed and specified hydraulic pressure shall be applied gradually. The pressure gauge must be accurate. The pipes and fittings shall be tested in sections as the work laying proceeds, keeping the joints exposed for inspection during the testing.

**Providing, laying and jointing in true line and level 110 diameter U.P.V.C (Type B) conforming to IS 13592-1992 with one end plain and other end socketed with rubber ring, & fittings conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 110 mm diameter x 149 mm length x 145 mm height at every 2000 mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all materials.**

Mode of Measurement: Rmt.

**Providing, laying and jointing in true line and level 160 diameter U.P.V.C (Type B) conforming to IS 13592-1992 with one end plain and other end socketed with rubber ring, & fittings conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 160 mm diameter x 210 mm length x 196 mm height at every 2000 mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all materials.**

Mode of Measurement: Rmt.

**Providing & fixing C. I. Nahani trap of approved size & make with additional aluminium perforated Jali Cover & C. I. Pipe outside the wall with plug, bend, etc., complete as directed by E. I. C. 100 mm. dia.**

C.I. nahni trap of specified diameter shall be fixed at locations shown, Nahni trap shall be with arm, length as per thickness of wall so as to have joint outside wall and any leakage may not harm the wall. Nahni trap shall be fixed in concrete. Aluminum perforated jali of approved make and shape shall be provided on the nahni trap. Necessary C.I. pipe of the diameter of main line shall be connected from nahni trap to Gully Trap/main line outside the wall necessary plug bend etc. as required. Payment shall be made per number of nahni trap fixed with necessary jali, plug bend, pipe pieces etc. complete.

Mode of Measurement: Each

**Providing and fixing washbasin with single hole for pillar tap with C.I. or M.S. brackets painted white including cutting holes and making good the same but excluding fittings.(A) Vitreous China:(ii) Flat Back washbasin 550 mm x v 400mm size. (i) In white colour.**

### 1.0. Materials



## Gujarat Energy Transmission Corporation Ltd.

Transmission Circle Office, Near 66kV Sub-station, Keriya Road,  
Amreli – 365 601.

e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



**1.1.** The white glazed earthenware wash basin shall be 550 mm. x 400 mm. of 1st quality and make as approved by the Engineer-in-charge. The wash basin shall conform to M-59.

### 2.0. Workmanship

2.1. The washbasin shall be fixed on the wall as and where directed. The wash basin shall be supported on a pair of M.S. or C.I. brackets fixed in C.M. 1:3 (1 cement : 3 sand). The bracket shall conform to I.S. : 775-1962. The wall plaster on the rear shall be cut to rest the top edge of the washbasin. After fixing the basin, plaster shall be made good and surface finished to match the existing one.

2.2. The brackets shall be painted white with ready-mixed paint.

2.3. The C.I. brass trap and union shall be connected to 32 mm. dia. waste pipe which shall be suitably bent towards the wall and which shall discharge into an open drain leading to a gully trap or direct in to gully-trap on the ground floor and shall be connected to a waste pipe through a floor trap on the upper floors. C.P. brass trap and union may not be provided where the surface drain or a floor trap is placed directly under the basin and the waste is discharged in to vertically.

2.4. The height of the front edge to the wash basin from the floor level shall be 80 cms.

2.5. The necessary inlet, outlet connections and fittings such as pillar cocks (Prince type), CP brass waste trap, waste pipe, stop cock, chain with rubber plug etc. shall be fixed.

### 3.0. Mode of measurements & payment

The rate includes cost of all labour, materials, tools and plant etc. required for satisfactory completion of this item as specified in workmanship.

The rate shall be for a unit of One number.

**Providing and fixing wsh down water closet (European type, W.C. Pan) with integral P or S trap including jointing the trap with soil pipe in Cement Mortar 1:1 (1-Cement : 1-fine sand) (Seal and cover to be measured and paid for separately)(A) vitreous China Pattern :(i) in white colour**

Mode of Measurement: Each

**Providing & Fixing 15 mm. dia. brass C. P. Screw down bib cock of approved quality having 250 to 300 grams weight etc., complete as directed by E. I. C.**

### 1.0. Materials :

15 mm. dia. brass screw down with bright polished finished shall conform to I.S, 781-1977. The bib cock shall be best Indian make and quality.

### 2.0. Workmanship.

2.1. The screw down bib cock 15 mm. as specified above shall be fixed as directed. The threaded portion shall be smeared with white or red lead and around with a few turns of fine spun yarn round the screwed end of the pipe. The bib cock shall be then screwed and fixed to water tight position.

### 3.0. Mode of measurements and payment

3.1. The rate includes cost of all labour, materials, tools and plant etc. required for satisfactory completion of this item.

3.2. The rate shall be for a unit of One Number.

**Providing & Fixing approved best quality I. S. S. approved full way G.M. Wheel valve.**

a) 15 mm. dia. Valve

b) 25 mm. dia. Valve

c) 40 mm. dia. Valve



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**1.0. Materials :** The gun metal check or not return full way wheel valve or specified dial, shall conform to I.S. : 778-1964. The non-return valve shall be of tested quality.

### **2.0. Workmanship**

2.1. The gun metal check or non return valve shall be fully cleared of all foreign matter before fixing. The fixing of shall be done by means of bolts nuts and 3 mm. rubber insertions with flags of spigot and socketed tail pieces, drilled to the same specifications as in case of socket and spigot flanges in case of flanged pipes. The joining shall be done leak proof.

### **3.0. Mode of measurements and payment**

3.1. The rate includes all labours, materials, tools and plant etc. required for satisfactory completion of this item.

32. The rate shall be for a unit of One number.

**Providing & Fixing 25 mm. dia. half turn brass C. P. Flush cock with one union of approved quality prince or its equivalent I. S. I. approved quality including fixing the same in pipe line as directed by E. I. C.**

**1.0. Materials :** Chromium plated brass half turn flush cock shall conform to M-67.

### **2.0. Workmanship**

The hall turn flush cock of specified diameter shall be fixed as directed. The flush cock shall be fixed in G.I. pipe line With necessary fittings. The joints shall be made leak proof by using spun yarn and white zinc. The fixing work shall be carried out as per relevant specifications of item No. 35.

### **3.0. Mode of measurements and payment**

3.1. The rate includes cost of all materials and labour required for satisfactory completion of this item including fittings.

3.2. The rate shall be for a unit of One number.

**Providing & Fixing 150 X 100 mm. stone ware gully trap with 300 X 300 mm. B. B. Masonry in C. M. (1:6) clear chamber including B. B. C. C. (1:4:8) 150 mm. thick bed concrete, plastering the chamber with 300 X 300 mm. C. I. Cover with frame curing etc., complete as directed by E. I. C.**

Stoneware gully trap 150 x 100mm shall be as per I.S. specifications and free from crack, other defects and shall be uniformly glazed. Trap shall rest on B.B.C.C. (1:4:8) 150mm thick. Brick masonry chamber of 225 x 150mm clear size and of required height shall be built in c.m. (1:6). Height of chamber shall be constructed on site as per site conditions. Masonry wall shall be carried out on base concrete of B.B.C.C. (1:4:8). Direction of trap opening shall be as per line layout on site for drainage work. Gully trap shall be provided with C.I. Cover of 225 x 150mm with frame on top of camber. Inner side of chamber of 200mm below final ground level of other area shall be plastered 12mm thick in c.m. (1:3) C.I. cover shall be given three coats of black anticorrosive paint as per item No. 17 of Section F.

Payment shall be made on number basis for all described above.

**Constructing brick masonry chamber for underground C.I. Inspection chamber and bends with briocks having crushing strength not less than 35Kg. Cm<sup>2</sup> in C.M. 1:5 C.I. cover with frame (Light duty) 455mm x 610mm intenal dimensions total weight of cover with frame to be not less than 38Kg. (Wt. of cover 23 Kg.) and Wt. of frame 15Kg. ) (R.C.C. top slabe with 1:2:4 mix (1- cement :2- coarse sand :4-graded stone aggregate 20mm size) foundation concrete 1:5:10 inside plaster 15mm thick with cement mortar 1:3 finished smooth with**





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**a floating coat of neat cement on walls and bed concrete etc. complete.(i) Inside dimensions 455mmx 610mm and 450mm deep for single pipe line.**

Mode of Measurement: Each

**Providing and rerectionm double coated syntax PVC (ISI) water tank or required capacity confirming to I. S. : 10146 - 1982 each with all necessary fitting and connection etc complete**

P.V.C. Polythene readymade water tank (equivalent to Sintex make 'Sintex' brand and not the 'Reno' brand) internally white coated shall be approved make and as per I.S. 10146. Quality of tank proposed to be provided shall be got approved Technical literature of tank shall be submitted for approval. Tank of capacity specified shall be installed at places shown with 20mm dia float valve with polythene ball and brass handle and fixing arrangements, 20mm dia G.I. "C" class waste pipe with G.I. plug, 25mm G.I. "C" class overflow pipe with all necessary fittings of heavy type for inlet/outlet connection.

Tank shall be installed on terrace or other places shown. Rate shall be inclusive of providing tank at place of use, installing at terrace or place shown with all fittings specified above, and giving test with filling of water. Payment shall be made for tank provided and installed of capacity specified in the tender, with all necessary fitting specified above. On number basis.

**Providing galvanizing sheet 0.18-1.20mm (BMT) thick. & AZM 150 to AZM 210 Coating (the alloy-coated product contains 55% aluminium, 43.5% zinc and 1.5% silicone by weight) roofing fixed with galvanized iron ) or L hooks, bolts and nuts 8mm dia with hexagonal nut, rubber and GI steel cup (limpet) washer only. (with installation sheet) filled with white lead complete excluding the cost of purlin, rafter and truss**

Mode of Measurement: Square Metre

**Structural steel work (Confirming to IS 4923-1997) riveted, bolted or welded in builtup for all type of section, in framed work, including cutting, hoisting, fixing in position and applying a primer cost of approved steel primer all competed as per the structure design and direction of EIC**

Mode of Measurement: Kg





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Amreli – 365 601.

e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



### **Special Technical Condition Electrification Work**

1. Laying and termination of 415 V, PVC armored power cable from lighting panel to the junction box at the bottom of the gantry to lighting fixtures receptacles & looping from one gantry to other shall be buried underground. Contractor shall quote the unit price of cable erection separately. Cables glands and lugs are included in contractor's scope.
2. Laying & termination by 415 V, PVC armored power cable from street lighting panels to street lighting poles and power cables for looping from one gantry to gantry shall be in the scope of lighting contractor. These cables shall be buried underground. Cable glands and lugs are included in contractor's scope.
3. Materials & components not specifically stated in this specification & which are necessary for satisfactory installation & operation of the lighting system shall be deemed to be included in the scope of the specification.
4. The design manufacture & performance of equipment shall comply with all currently applicable statues, regulations and safety codes in the locality where the equipment will be installed. Nothing in this specification shall be construed to relieve the bidder of these responsibilities.
5. Unless otherwise specified, equipment offered shall confirm to latest applicable Indian and IEE standards. Equipments complying with one another authoritative standards such as British, U.S.A., V.D.E., etc., will also be consider if it insures performance equivalent of supplier to Indian Standards. In such cases the bidder shall clearly indicate the standard adopted and furnish a copy of the latest English version of the standards along with the tender should there be any dispute of design, work shall be followed.
6. Indian Standards as per latest amendment should be followed :-

(i)	IS : 1913	-General & Safety requirement for Electric Lighting Fittings.
(ii)	IS : 3523	-Water Proof Electric Lighting Fittings.
(iii)	IS : 4012	-Dust Proof Electric Lighting Fittings.
(iv)	IS : 4013	-Dust Tight Electric Lighting Fittings.
(v)	IS : 1777	-Industrial Lighting Fittings with Metal Reflectors.
(vi)	IS : 3287	-Industrial Lighting Fittings with Plastic Reflectors.
(vii)	IS : 2493	-Well glass Lighting Fittings for use underground in mines. (Non flamp proof type).
(viii)	IS : 1947	-Specification of Flood Light.
(ix)	IS : 2149	-Luminaries for Street Lighting.
(x)	IS : 2183	-High Pressure Mercury Vapor Lamps.
(xi)	IS : 1534	-Ballasts for use in Fluorescent Lighting Fittings (PART-I).
(xii)	IS : 1569	-Capacitors for use in Fluorescent Lamps.
(xiii)	IS : 2215	-Starters for Fluorescent Lamps.
(xiv)	IS : 2713	-Tubular Steel Poles.
(xv)	IS : 5133	-Steel & Cast Iron Boxes.
(xvi)	IS : 2629	-Hot Dip Galvanizing of Iron & Steel.
(xvii)	IS : 694	-PVC Insulated Cables for Working Voltage up to & including 1100 V
(xviii)	IS : 732	-Code of practice for Electrical Wring Installation (System Voltage not exceeding 650 Volts.)
(xix)	IS : 3043	-Code of Practice for Earthing.



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Amreli – 365 601.

e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



- (xx) Indian Electricity Act.
- (xxi) Indian Electricity Rules.

7. The Standards mentioned above are available from Indian Standards Institution. Manek Bhavan, 9, Bahdoor Shah Zafar Marg, New Delhi – 110 001.
8. All Sodium Lamps fixtures shall be complete with accessories like balasts, Ignitors, Power Factor Improvement Capacitors etc. This shall be mounted as possible in the fittings assembly only. If these can not be accommodated inside, then a separate metal enclosed box shall be included to accommodate the accessories and in addition with fuse & terminal block suitable for Loop – In – Loop – Out connections. Outdoor type Weather proof box. They shall indicate starting time of this lamps to get full light out put. Curves for starting characteristics and variation of lamp characteristics with varying supply voltage etc to be furnished by the bidders.
9. Each lighting fixture shall be provided with and earthing terminal suitable to connection to 8 SWG G.I. Earthing Conductor.

### 10. Cable Termination Box:-

1. Cable Termination Box for gantry structures, shall be completely weather proof Confirming to IPW 55 and provided with lockable door & HRC fuse mounted on fuse Carrier and fuse base assembly. The terminal shall be stud type and suitable for two nos. 4 mm<sup>2</sup> cable necessary arrangement for glanding cable along with supply of gland are included in tender scope.
2. The bolts, nuts & screw required for erection is to be supplied by the contractor at His own cost.
3. Outside and inside the cable terminal boxes shall be supplied by the contractor at his colours.
4. Finished painted appearance on equipment shall aesthetically pleasing appearance, free from dots and uneven surface.
5. Touch up paint at site shall have to be done, if necessary.

### 11. STREET LIGHT POLES: -

1. The structure/pole & wall mounted G.I. pipe post shall be supplied with one "SINTEX" make SMC junction box described in Schedule 'B' heavy duty bakelite connector, brass Neutral link, rewirable fuse, rubber gaskets etc.
2. The junction box should be provided with proper bracing arrangement on structure/ wall by means of G.I. strips. The junction box should have two holes at the bottom to accommodate two siemens type tinned brass cable glands of suitable size for cable to be used. The cable glands of approved make should be supplied by the contractor.
3. The wall mounted G.I. Pipe post shall be painted with one coats of Anti -Corrosive oxide primer & two coats of Aluminum paint. as per instruction of Engineer – In – Charge.

### 12. INSTALLATION OF POLES AND WALL MOUNTED G.I. PIPE POST: -

The G.I. Pipe post shall be fixed on the face of wall at suitable height, by means of 3 pairs of wall clamps, nuts and bolts.

### 13. CABLE WORK: -



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PVC Insulated PVC cuter and inner sheath, armoured copper conductor cables suitable for 1100 Volts A.C. as per IS : 1554 (Part – I – 1964) of size as specified in schedule of quantities. The cables should be approved make, any of following, Unicable C.C. / Unistrar / Gloster / I.C.C. or equipment, subject to approval of Competent Authority.

### 14. GENERAL PRECAUTIONS FOR HANDLING OF CABLES: -

Before laying cables there shall be tested for physical damage, continuity, absence of cross phasing, insulation resistance to earth and between conductor, insulation resistance tests shall be carried out with 500 / 1000 volt megger.

1. The cable shall be supplied for site wound on wooden drum as far as possible. For smaller length and sizes cables in properly coiled form can be accepted. The cables shall be laid by mounting the drum of cable on drum shall be mounted on a properly supported axle and the cable laid out from the drum in no case the cable will be rolled on as it produces kinks which may damage the conductor.
2. Sharp bending and kinking of cables shall be avoided. The bending radius for PVC insulated & sheet armoured cables shall not be less than 10 'D', where 'D' is overall dia. Of the cable armoured cable shall never be concealed in roads with G.I. Pipe conductor R.C.C. pipes, required pipes will be supplied by the contractor. After drawing cable, the end of the pipe shall be sealed with cotton/bituminous compound

### 15. LAYING OF CABLES (UNDERGROUND SYSTEM): -

1. Cables shall be so laid in ground that, these will not interfere with other underground structures. All water pipe sewage lines or other structure which become exposed by excavation shall be properly supported and protected from injury until the filling has been rammed solidly in places under and around them. Any Telephone or other cables coming in the way are to be properly shielded / diverted as directed by the Engineer – In – Charge. Cables shall be laid at a minimum depth of 750 mm from ground level. Excavation will generally be in ordinary alluvial soil. The width of the trench shall be sufficient for laying of required number of cables. The surface of the ground after back filling the earth, shall be made so as to confirm in all respects to the surrounded ground and to the entire satisfaction of site Engineer.
2. For wall mounted fixture the cable shall be laid in wall, by using grooved wooden base block G.I. saddles, screw etc.
3. Joints in the cable throughout its length of laying shall be avoided as far as Possible and if unavoidable, prior approval of site Engineer shall be taken. If allowed proper straight through epoxy joint shall be made without any additional cost. A loop of one meter of each length of cable shall be left near each street light pole. Also a loop of one meter shall be provided on both ends of the cable. This additional length shall be used for fresh termination in future. Cable for this loop shall be paid for supply & laying

### 16. TERMINATION AND JOINTING OF CABLES: -

On both ends of cables suitable size brass heavy duty cable glands shall be used before it enters junction box/ main LT panel/ joint box etc. armour of cable shall be connected to earth point.



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e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



### 17. EARTHING TO G.I. PIPE/ STRUCTURE/POLES & FIXTURE: -

- Each fixture structure/wall and G.I. Pipe post shall be earthed by coil type earthing. 10 SWG G.I. wire coil (10 cms. Dia x 45 Cms. Length) shall be buried in specially prepared Earth pit of depth 1.5 Mtr. Necessary G.I. wire including coil, salt (10 KGs. per pit) & Charcoal/ coke (10 Kgs. per pit) required for earthing, shall be supplied by the Contractor. The upper end of G.I. earthing wire shall be fixed on each pole and G.I. pipe post by means of 2 Nos. of 8 mm.dia. Brass bolts and nuts with washer as shown in drawing shall be made available with pole. There should not be any joint of G.I. earth wire, in between earthing terminal of pole and bottom end of coil.
- The common earthing shall be done for two post – top luminaries installed on main gate of the switch yard for measurement recording. The quantity will be considered as ONE only and no extra payment will be made, for common earthing.

### 18. INSTALLATION STREET LIGHTING LUMINAIRES: -

This include fixing of street light fitting complete with accessories and lamp on The pole/ bracket, connecting it with 2 x 2.5 sq. mm (710.67 mm) Dia. PVC insulated and PVC sheathed copper flexible conductor and commissioning the same.

### 19. INSTALLATION POST TOP LUMINAIRE: -

This includes providing & installation of post top lantern complete with all accessories & lamp connection it with 2 x 2.5 sq. mm. (710.67 mm Dia) PVC insulated & PVC sheathed copper flexible conductor testing & commissioning the same.

- All the fitting required for fixing the luminaries, such as reducer, coupler, gasket & all types of hardware shall be provided by the contractor himself. All tools and Tackles required for the entire work shall also be arranged by the contractor. In any case Board will not provide any such facility, whatever.

- All materials shall be got approved from E.E./D.E. Construction, Amreli before commencement of work. If there is any dispute regarding interpretation of specifications. The decision of E.E. Construction, Amreli shall be final and binding to the contractor.

### 22. SPECIFICATIONS: -

The fitting will have to be supplied and the work will have to be carried as per specification attached herewith and the same should be got approved by the Executive Engineer, Amreli. The successful bidder has to follow strictly standard design of illumination for 66 KV Sub-Station as per circular No: CE(Project)/SE(Proj)/V/4858 Dtd: 24-06-2008 issued by C.E.(Pro) details are as under.

- GETCO Technical Specification Illumination
- Annexure –I (Fitting detail of Control Room).
- Annexure-II (Luminance details for switch yard area).



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4. Standard drawing for switchyard Illumination No: GETCO/E/06S-STD/S-013 (Sheet 1 To 3).
5. Standard drawing for Control Room No: GETCO/E/06S-STD/S-015 (Sheet 1 & 2).

1. **Point wiring for Light / Bell with 2-1.5 sq.mm & earthwire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires, in following type of pipe to be erected concealed in/ on surface on wall/ceiling complete with 6A Modular type switch / bell push & accessories and earth continuity of following type, erected on PVC / Metallic box, single mounting base frame covered with textured/metallic front plate modules erected on / in wall / ceiling as per pipe erected, with necessary Lamp holder/ceiling rose / H.D.Connector as directed. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat. III**

The mode of measurement: Point

2. **Point wiring for FAN with 2-1.5 sq.mm & earthwire of 1.5 sq.mm (Green) both are of .ISI marked 1.1 KV Grade FRLS PVC insulated multistrand copper wires, in following type of pipe to be erected concealed in / flushed on wall/ceiling complete with 6A Modular type switch and hum free EME four or more step type electronic fan regulator with separately mounted and accessories with earth continuity of following type erected on PVC / Metallic box, single mounting base frame covered with textured/metallic front plate modules erected on / in wall / ceiling as per pipe erected. with necessary ceiling rose / H.D.Connector as directed. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat. III**

The mode of measurement: Point

3. **Point wiring for Individual Plug with & earthwire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires, in following type of to be erected concealed in / on surface of wall / ceiling complete with Modular type switch & 5 pin Plug erected on PVC / Metallic box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories.[I] For 6A Plug and 6 a switch with 2-1.5 sq.mm Cu. Wire from nearby switchboard/mcb db board (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat. III**

The mode of measurement: Each

4. **Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug**





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e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories.[III] For 16A Plug and 16 amp switch with 2-4 sq.mm Cu. Wire with 2.5 sq.mm (green) earthing wire from mcb d b board. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat. III

The mode of measurement: Each

5. Point wiring for on board Looped Plug with 6A Modular type switch & 5 pin socket erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate modules erected on / in wall / ceiling with following type accessories. Cat. III

The mode of measurement: Point

6. Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge. (7) Blank Plate Single Cat.III

The mode of measurement: Each

7. Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge. (9) 16 Amp. SP one way switch Cat.III

The mode of measurement: Each

8. Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge. (10) 6/16Amp. Universal socket

The mode of measurement: Each

9. Providing and erecting ISI mark Medium class RIGID PVC PIPES of following size complete to be erected on/in wall or ceiling erected with necessary PVC fittings & Junction boxes fixed with adhesive solution & Clamps with following dia of pipes, in approved manner as directed .(a) 20 mm





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Amreli – 365 601.

e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



The mode of measurement: Metre

- 10. Providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size (a) with medium class Rigid PVC pipe and accessories.(a) 2 wire 1.5 sq. mm**

The mode of measurement: Metre

- 11. Providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size (a) with medium class Rigid PVC pipe and accessories(b) 2 wire 2.5 sq. Mm**

The mode of measurement: Metre

- 12. Providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in / on wall / ceiling with 2.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size(A) with medium class Rigid PVC pipe and accessories(a) 2 wire 4 sq. mm**

The mode of measurement: Metre

- 13. Providing and erecting Mains with ISI marked, 1.5KV grade electrolyte multi stranded, annealed copper conductor with heat resistant PVC insulated conforms to IS 694, IEC - 227 erected in existing pipe of following size (Specifically for control panel, relays, power switchgears, motor starters & control wiring) with required size of copper lugs, nuts and bolts if required.(g) One wire 16.00 sq. mm**

The mode of measurement: Metre

- 14. Supplying & erecting approved make LAN cable of following size in existing pipe as per direction [D] CAT - 6 e**

The mode of measurement: Metre

- 15. Providing & erecting Switch board for Computer or electric apparatus consisting of**



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e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



following modular type accessories mounted with PVC / Metallic concealed/open box with single mounting base frame covered with textured/metallic /white front plate,modules erected with necessary connections as directed 1 no. 6A/16A universal plug-switch combined. 3 nos. 6A Switch 3 nos. 6A 5 pin Plug [B] For Modular Type Accessories Cat. III

The mode of measurement: Each

16. Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/ aluminium die cast powder coated and high U.V. & corrosion resistance with diffuser with company mark/name 160V to 270V, Power Factor more than 0.9, THD < 15%, CCT 3000 K to 6500K, Luminaire efficacy> 85 lumens/watt, LED LED driver efficiency > 85 % (fitting required LM-79 & LM-80 Certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.)(A) Tube Light with integral driver (v) 36-40 Watts, Surge-2 KV, IP-20, conventional 4 feet Cat-III

The mode of measurement: Each

17. Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/aluminium pressure die cast powder coated and high U.V. & corrosion resistance with diffuser housed in aluminium casted body with company mark/name 160V to 270V,Power Factor more than 0.9, THD < 15 %,CCT 3000 K to 6500K, Luminaire efficacy> 85 lumens/watt , LED driver efficiency > 85 % (fitting required LM-79 & LM-80 Certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.)(B) LED Panel Light with provision for Plane front frame with translucent cover fixed to housing complete.IP20 (iii) 12-15 watts, 6" x 6", Surge-2 KV Cat-III

The mode of measurement: Each

18. Providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 35 KA. at 415 V. having normal current rating 125A. with Fixed thermal & magnetic release suitable to work on A.C.supply 50 c/s. with all internal connections, spreader tinned copper & complete erected in existing 16 G.M.S. housing. ICS=100% of ICU only Cat III



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The mode of measurement: Each

### 19. Supply of Approved make Iron Clad or metal clad four pole change over switch 415V. confirming to IS of following capacity (B) 100 A / 125 A Cat III

The mode of measurement: Each

### 20. Providing and erecting busbar chamber confirming to IS-375 fabricated from 16 G.M.S. sheet, dust & vermin proof having hinged door with rubber gasket and necessary busbar supports with COPPER busbar having current density not more than 1.6 Amp. / sq.mm (Rated current / cross section area) duly wrapped with colour insulation tape for phase sequence, three phase & neutral each suitable for following current capacity with necessary painting mounted on wall or pedestal frame of required size with necessary connections.(B) Suitable for 200 Amp. Capacity

The mode of measurement: Each

### 21. providing and erecting Miniature circuit breaker single pole 6A to 25A suitable to operate on 240 V A.C. system and having breaking capacity 10 KA to be erected in existing box. confirming to IS 8828/1996 with ISI Mark Cat.III

The mode of measurement: Each

### 22. Providing & erecting 240 V MCB double pole switch for motor & inductive load (C Curve) having 10 KA breaking capacity & confirms to IS : 8828 in existing box having following capacity (A) 6 to 32 Amp. Cat.III

The mode of measurement: Each

### 23. Providing & erecting 415 V MCB Four Pole for Motor & Inductive Load (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity (c)63 Amp. Cat.III

The mode of measurement: Each

### 24. Supplying & erecting approved make Electronics Starter and relay for air conditioners in ABS plastic moulded housing. Company fabricated with bakelite terminal for



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e-mail : [setramreli.getco@gebm.com](mailto:setramreli.getco@gebm.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



connection with silver coating bimetallic contact in switching device for o/p with following features.

- (1) Low Voltage Protection below 130 V
- (2) High Voltage protection above 270 V
- (3) Overload protection for 2-5, 4-10, 8-14, 10-16, 14-22 Amp. (inverse time chara)
- (4) Indicating LEDs for AC on LV, HV, O/L, T/D
- (5) With unique feature of 3 minute of time delay

The mode of measurement: Each

### 25. Plastic enclosure fitted with DIN rail suitable for incorporating Three /Four nos. MCB

The mode of measurement: Each

### 26. Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs. (The DBs should be used of same company of MCB to be used) suitable for (B) three phase incoming and single phase horizontal type outgoing Per phase isolation type (PPI) (b) sheet steel double door (iii) 8 way

The mode of measurement: Each

### 27. Providing and erecting Approved make RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 10 KA and suitable for operation on single phase 240 V, 50Hz. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component. for following Max. rating erected as directed (i) 25 Amps. DP Cat. III

The mode of measurement: Each

### 28. Providing and erecting Approved make RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 10 KA and suitable for operation on 3 phase and neutral 415V, 50Hz. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component for following Max. rating erected as directed. (iii) 63 Amps. FP Cat. III

The mode of measurement: Each



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### 29. Providing & Erecting Annealed bare copper wire 8 to 16 SWG

The mode of measurement: Kg.

- 30. Supplying & erecting earth pit of minimum bore dia.150mm size approved make Earthing Electrode consisting Pipe-in-Pipe Technology as per IS 3043-1987 made of corrosion free hot dipped G.I.Pipes having Outer pipe dia of 50mm having 80-200 Micron galvanising, Inner pipe dia of 25 mm having 200-250 Micron galvanising, connection terminal dia of 12mm with constant ohmic value surrounded by highly conductive compound with high charge dissipation suitable for following type of applications with chamber and heavy duty cover.(approved make OEM has to submit test certificate) & having back filling compound of (B) Inner chemical (CCM Compound)- Resistivity:- 0.2  $\Omega$ / meter testing as per IEC 62561-2017, Voltage drop:- < 1 volt at no load & dry form, Sulphur content:- <2%(C) Back fill Compound :- Earthing compound should be capable to retain moisture for long time Necessary test report must be submitted.(a) For Electrical Installation up to 440V in normal soilLength of pipe - 1 Mtr Back filling compound - 1 Nos Bag of 15 Kg.**

The mode of measurement: Each

- 31. Providing & erecting weather proof, dust & vermin proof, floor mounted front operated indoor type cubical panel board necessary IP-42 and above protection as per approval from engineer incharge made from 14 SWG thick CRC M.S. sheet for outer body & doors, 16 SWG thick CRC M.S.sheet for internal partitions with necessary accessories, supporting angles/ flats channel including cutting, bending, drilling, welding, riveting with internal partitions & cable alley as per requirements & instruction of engineer-in-charge with erection of supplied switch gears, BUSBARS, suitable size of inter connecting PVC copper wire / copper-aluminium strips, rubber grommets, rib, bakelite control fuses/MCB for measuring instruments, earth bus & earth bolts, foundation flange - bolts-base Plates, sufficient nos. of hinged doors, handles with locking arrangement and rubber gasket,heavy duty end terminal connection,danger notice board,necessary ventilation,earthing strip complete. The Panel shall be painted with epoxy powder coating. (The rates excludes the cost of switchgears, bus bars, inter connecting mains & Copper Aluminium strips, meters, Fuses etc. The dimension shall be measured excluding base beams) The panel shall be supplied with following approved manufacturers with following size. (B) The standard companies switch gear shall be used and only manufacturers at CPRI approved factory (i) with 350mm depth**

The mode of measurement: Square Metre





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e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



- 32. Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (D) 3 1/2 core 70 Sq. mm ( 35 Sq. mm 1/2 core)**

The mode of measurement: Metre

- 33. Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Copper conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe at road crossing or floor of following size of cables.(B) 4 core 16 Sq. mm**

The mode of measurement: Metre

- 34. Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables.(D) 2 to 4 core 16 Sq. mm**

The mode of measurement: Nos.

- 35. Providing and, fixing heavy duty flange type brass double compression type cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. (C) 3 & 1/2 core 70 Sq. mm**

The mode of measurement: Nos.

- 36. Providing & erecting Approved make Power Saving 50 Watt Ceiling Fan with double ball bearing ISI mark with Condenser 230 volt A.C. 50 Hz 1200 mm sweep complete having 3blades with aluminium blades with , canopy & 30 cm. down rod erected with earthing. (Make shall be approved by Engineer in charge)**

The mode of measurement: Each

- 37. Supplying & erecting Fan Hook of 10 mm M.S. Round bar grouted in RCC slab with Making the site as original.**

The mode of measurement: Each



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- 38. Supplying and erecting 19 / 20 mm. nominal bore Medium Class M.S. Pipe down rod erected duly painted for fan complete with proper insulation without leakage and earthing.**

The mode of measurement: Metre

- 39. SITC of Micro processor based Net-workable Analogue Addressable Fire Alarm Control Panel. The Panel shall be compliant with EN54-2, EN54-4 and approved by LPCB. The Fire Alarm Control Panel shall have in built one loop and expandable capacity upto 2 loops. The Panel must have large graphic display. The Panel must also have the capability to take Addressable Intelligent Wired and Wireless Devices on same loop. Each loop shall have a capacity of 127 analogue Addressable devices and 127 Base sounders/Base Sounder Beacons. The Panels shall have 240V AC power supply along with automatic Battery Charger. Approved by LPCB(Including Five year free maintenance with guarantee)**

The mode of measurement: Nos

- 40. SITC of Local LCD Control Repeater Panel to be integrated with Fire Alarm Control Panel. Panel should have 8 lines of 40 characters graphic LCD and shall be compliant with EN54-2, EN54-4 and Approved by LPCB (Including Five year free maintenance with guarantee)**

The mode of measurement: Nos

- 41. SITC of Analogue Addressable Smoke Sensor which is fully compatible with Analogue Addressable Protocol, having removable high performance chamber with Twin fire LED' shall allow 360 degree viewing, User selectable sensitivity modes 1% to 4.5% obs/m, Incorporate Optical elements, lock mechanism (sensor to base), Electronically addressed, Pulsing/non-pulsing controlled from panel Approved by LPCB & VdS.**

The mode of measurement: Nos

- 42. SITC of Response Indicator - Dual LED (Metal square plate type)**

The mode of measurement: Nos



## Gujarat Energy Transmission Corporation Ltd.

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- 43. SITC of Analogue addressable loop powered Base Sounder, variable sound output 50~98dB(A)(±2dB(A)) output at 1 metre, 51 user selectable tones (all tones EN54-3 compatible), Auto shut down feature prevents noise-pollution, Approved by LPCB&VdS**

The mode of measurement: Nos

- 44. SITC of Analogue Addressable Dual Zone Monitor with integral Short Circuit Isolator which allow Supports two independent zones of 30 conventional detector each (total 60 conventional detectors). Both zones fully monitored for short/open circuit, Addressing via DIL switches, Approved by LPCB.**

The mode of measurement: Nos

- 45. SITC of Analogue Addressable Manual Call Point with Integral Short Circuit Isolator, Analogue Addressable Protocol having, Bi-coloured status LED (red for alarm, amber for (short-circuit), Non-frangible element fitted as standard (conform to EN54), pulsing/non pulsing can be selectable via panel, Electronically addressed, Approved by LPCB.**

The mode of measurement: Nos

- 46. Supplying & laying of 2x1.5 sqmm fire alarm armoured cable, 600/1000V rated with annealed copper conductor having XLPE insulation, steel wire armouring & FRLS outer sheath complete as required.**

The mode of measurement: Metre

- 47. Providing and erecting approved make split air-conditioning unit consisting of copper condensing unit with fan motor, hermetically sealed rotary compressor with accessories etc. duly connected separately erected evaporating unit and blower motor with its accessories by means of extra supplied proper insulated copper tubing, drain PVC pipes suitable for ( cost includes powder coated Stand, Eco Friendly green gas charging, 15A plug top & Remote Control) with necessary core cutting. For 4/5 star Rating of current year (c) for 2 ton capacity**

The mode of measurement: Nos



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- 48. Supplying and erecting insulated pair of soft copper tubing open or concealed including power and control cable, necessary PVC drain pipes for Split AC machine up to 4 TR capacity**

The mode of measurement: Metre

- 49. Supplying and erecting approved make panel mounting type Digital Voltmeter having 3 digits LED display, 0 to 750 AC Volts range erected on existing panel board with all connection, wiring etc. with manufacturers calibration certificate.**

The mode of measurement: Nos.

- 50. Supplying and erecting approved make panel mounting type Digital Ammeter having 3 digits LED display, external CT operated, calibrated for 0 to 1000 Amps suitable to operate on 500 Volt AC, erected on existing panel board with all connection, wiring etc. with manufacturers calibration certificate.**

The mode of measurement: Nos.

- 51. Supplying and erecting approved make suitable panel indicator lamps of LED type lamp, lens cover, Bakelite holder complete erected with necessary connections.**

The mode of measurement: Nos.

- 52. Supplying and erecting, commissioning and testing of Diesel Generating set conforming to IS: 4722:1968 & BS:5514 having continuous rating, 3 phase, 415 volts, 50 cycles A.C. supply comprising of a totally enclosed air/water cooled diesel engine with multi-cylinders developing suitable BHP not less than following capacity at 1500 RPM with 10% overload for one hour in 24 hours with standard accessories like fly wheel, lubricating oil cooler, "A" class governor, heavy duty fuel wheel and lubricating oil filter, oil bath air filter, lubricating oil pressure gauge, end exhaust manifold, standard set of tools with adjustable spanners, screw drivers, cylinder head to cover, joint cylinder head to exhaust, element lube oil filter, 12 / 24 volts electric starting equipment complete with standard heavy duty battery, dynamo, cut-outs, ammeter, necessary wiring, pressure gauge, starter etc and heavy duty Residential type exhaust silencer and vertical hot air duct both lagged with asbestos rope, save oil trays, exhaust piping of required length, standard wall/floor mounted fuel with level indi-**



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cator and piping and drip proof alternator, self excited, self regulated, screen protected, with excitation system, capable of delivering the rated system output at 415 volts, 3 phase, 0.8 PF, 50 Hz, 4 wire, running at 1500 RPM, conforming to IS-4722-1968 with voltage regulation  $\pm 5\%$  of rated voltage from no load to full load. Both the engine and alternator fitted on a common fabricated steel base plate with anti-vibration mounting engine and alternator both connected to each other by flexible flange coupling and with floor/wall mounted control panel box comprising of voltmeter ammeter, selector switches, ACB / MCCB / MCB of adequate capacity, indicator lamps duly wired with HRC fuses. The alternator & control panel shall be connected with provided suitable capacity armoured cable and complete with Acoustic enclosure (canopy) made out of 16 SWG CRCA Sheet, sound absorbing material Rockwool of 64 density & 100 mm thick conforming to IS:8183 / PU Foam of 40 Density - at least 40 mm. The resin bonded rockwool covered from inside the canopy by perforated sheet with 3/4 mm holes, sound level not more than 75 dB at a distance of 1 mtr, as per PVCT norms. Erection, commissioning and satisfactory testing as per requirement with first filling of fuel, oil, etc. with guarantee / Warrantee of complete system for Two years. & with obtaining all necessary certificate from Electrical Inspector. The Capacity and Ratings of DG sets are as below. (F) Continuous Rating of 40 KVA, BHP not less than 52 BHP.

The mode of measurement: Nos.

53. Providing & erecting approved make AMF control panel suitable for following size of 3 phase, 415 V., 50 cycles, A.C. diesel generating set complete of scope as detailed below:

- 1) Power module: A pair of electromechanically interlocked contactors (for mains & generator) Overload relay for generator contactor Neutral contactor for mains and generator Power socket for connections.
- 2) Control and metering module: Line voltage monitor. Generator voltage monitor Ammeter 3) items attempt start facility. Air circuit breakers/MCB/MCCB of suitable rating for auto/manual operation. Auto/manual switch. Emergency stop push buttons. Manual start push button. frequency meter. Engine hour meter. Two earthing studs.
- 3) Protection module: The engine shutdown in the unlikely event of Low lube oil pressure High cylinder head temperature. V belt failure.
- 4) Indicators with alarm Load on generator.
- 5) Indicators Load on mains Engine fails to start . Emergency stop battery charger. The AMF Panel of following capacity (A) AMF Control Panel for 50/62.5 KVA 3 phase DG Set

The mode of measurement: Nos.



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**54. Supplying and erecting Servo Controlled Voltage Stabilizer (SCVS) as per following requirement: (1) Input Voltage Range - Three Phase 340 To 480 Volt AC. (2) Out put Volatge - Three Phase 415 Volt AC (Line - Line) with Voltage Regulation of +/- 1%. (3) Frequency range - 47 Hz To 63 Hz. (4) Efficiency - More or equal to 98%. (5) Type of Stabilizer - Suitable for Balance & Unbalance Load and Voltage (6) Controlled Type - Digital Micro Controller Based Disply. (7) Rate Of Correction - Upto 100 Volt / Sec (Line - Line) (8) Servo Motor Drive - AC Synchronous Stepper Motor - As per KVA Capacity, Out put volatge and Voltage regulation requirement. (9) Nil Wave form Distortion and Effect of Load Power. (10) Responce Time - 10 milli second. (11) Protection requirements - Input low Cut off protection / Input High Cut Off Protection / Output Low Cut Off protection / IOutput High (12) Fault Annuciation Panel LED shows Input present, Input high Input low, Output Normal, Output High, Outpur low, Overload. (13) Output On time delay - 10 seconds (14) Ambient Tempeature capacity - 0 - 45 RH upto 90 %. (15) Enclosure Type - IP55 (16) Type of Cooling - Air / Oil, (17) Output: Bypass switch with changeover switch & 4 yearS free replacement guarantee on Stamp paper. [G]30 KVA (Air Cooled)**

The mode of measurement: Nos.

**55. SITC of 43 Inch 500 NTS Brightness professional Display with Direct-Type LED, Viewing Angle : 178 Degree Verti, 178 Degree Hor. Operation 27x7, Native Resolution 3840 x 2160 (16:9) - UHD, 4 x USB (2 x 2.0, 1 x 2.0 internal, 1 x Type C), 0-40°C, ≤0.5 W, HTML 5 Browser Opera(4.9), Yes(internal) IEEE 802.11 a/b/g/n Dual WiFi certified, BIS, YES CLASS A 3dB margin.**

The mode of measurement: Nos.

**56. Supply, Installation, Testing and Comissioning of Intel SDMModule (Core i7 11th Gen Processor, 8Gx2RAM, 256 GB Storage) with Dimension 175mmx110mm (Intel SDML arge compliant)**

The mode of measurement: Nos.

**57. Supply,Installation,TestingandComissioningof4MPVarifocalLens Dome Type Camera, H.2654 MPIR Turret Dome N/W Camera, Manual Varifocal 2.8-12mm, 50M, Micro SD, DC12V/PoE, IP67/IK10, Basic IVA, 4M Presolution (2560×1440), True-day/night, Digital WDR, 3DDNR, HLC & BLC, Triple streams, Smart codec by ROI,**





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**Built-in MIC, Cyber Security, Basic intelligent video analytics, Audio In, NDAA Compliance, UL, CE, FCC Certified.**

The mode of measurement: Nos.

**58. SITC of 8 x 10/100/1000BASE-T PoE ports 2 x Gigabit SFP ports Advanced L2 switching and security features L2+ Static Routing Optional “standard mode” or “surveillance mode” management user interface 65W PoE budget**

The mode of measurement: Nos.

**59. Supply, Installation, Testing and Commissioning of 8 Channel Network Video Recorder (NVR), 1 RJ 45 10/100/1000 Mbps self-adaptive Ethernet interface, Supports H.265+/H.265/H.264/H.264+ Decoding formats, 1-ch@8MP/4-ch@1080p, Embedded NVR, 2 HDD Bays, Up to 6TB capacity for each disk, HDMI, VGA output, Incoming band width 80 Mbps, Outgoing band width 80 Mbps, CE FCC, BIS, Operating Temp -10 deg to 55 deg C, 2xUSB 2.0 and serial Interface**

The mode of measurement: Nos.

**60. Supply Installation Testing & Commissioning of 4TB Surveillance Harddisk**

The mode of measurement: Nos.

**61. Supply Installation Testing & Commissioning of 9U Indoor Wallmount Rack with required accessories like 6 socket PDU, 1 Fan, 2 Hardware Mounting Packet, 1 Equipment Tray**

The mode of measurement: Nos.

**62. Supplying & erecting D.C.P. type fire extinguisher for following capacity cartridge type with gun metal cap 150 gram CO2 gas cartridge, powder and brackets confirming to IS 2171 1985 and complete erected with necessary clamps made from 50 x 6 mm M S Flat with nuts and bolts grouted in wall complete. [A] For 5 Kg Capacity**

The mode of measurement: Nos.



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**63. Supplying & erecting carbon dioxide (CO<sub>2</sub>) fire extinguisher user of following capacity with necessary clamps made from 50 x 6 mm M.S. Flat with nut & bolts grouted in wall complete. [B] For 5.5 / 6.5 KG Capacity**

The mode of measurement: Nos.

If any change in quantity as well as specification will be intimated well in advance before commencement of work & accordingly the successful bidder has to carry out the work & procure the required items.

**Detail specification and approved make list for electrical items attached separately.**



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### **SAFETY BOND**

(On Non Judicial Stamp paper of value not less than Rs. 300/-)

KNOW ALL MEN BY THESE PRESENTS that we, \_\_\_\_\_ by this SAFETY CUM INDEMNITY BOND Executed on this \_\_\_ Day of \_\_\_\_\_, \_\_\_\_\_, I/We Having Registered Office \_\_\_\_\_ (herein after called "THE CONTRACTOR" which expression shall mean and includes my /our heirs, executors, administrators and legal representatives, successors and permitted assigns) do hereby binds myself/ourselves and also our company/firms after having the power to bind by this promise and undertaking in favour of the Gujarat Energy Transmission Corporation Limited (GETCO), Vadodara a State Transmission Utility under The Electricity Act, 2003 having its registered office at Sardar Patel Vidyut Bhavan, Race course, Vadodara.( hereinafter called as GETCO, which expression shall mean and include its legal representative, administrators assigns) has agreed under the terms and conditions of the contract no. LOI. No. \_\_\_\_\_ made between **GETCO** and \_\_\_\_\_ for the contract of the

\_\_\_\_\_ value of **Rs.** \_\_\_\_\_ interalia on production of Safety Cum Indemnity Bond.

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

Whereas the CONTRACTOR has/have been awarded to execute the job/works under LOI. No. \_\_\_\_\_ for \_\_\_\_\_

issued by the GETCO after having observing necessary formalities, the details of which is described in the LOI. 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.



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

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

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

- a. That the CONTRACTOR undertakes /undertake to indemnify and keep harmless the GETCO from all claims, actions, proceedings and risk, damage danger to any person whether belonging or not belonging to the CONTRACTOR.
- b. That the CONTRACTOR shall keep harmless the GETCO from all claims, compensation, damages any proceedings in respect of any of its employee / workmen under the Workmen Compensation Act or any other laws for the time being in force.
- c. That, if during the course of execution of work as stated in the contract order mentioned hereinabove issued by the OBLIGEE, it is found that the CONTRACTOR has not complied with guidelines as per Annexure-A or terms and conditions / formalities within the meaning of Employees' State Insurance Act,1948 (ESI) or Workmen Compensation Act 1923 or any other laws relating to the Labour Welfare for the time being in force, and also has not observed the safety norms in accordance with the law prevailing at the place of work/job to the satisfaction of the GETCO, the GETCO shall have the right to stop the execution of work/job and the period of such stoppage shall not be taken into account for the calculation of the total period of completion of work for which the CONTRACTOR is responsible to complete the work/job and it will be deemed that discontinuance was due to default of the CONTRACTOR.
- d. That, if any time, due to exigency, GETCO as the Principle Employer, becomes liable to pay any such compensation mentioned hereinabove, whether on failure of the CONTRACTOR or for any other reason, the GETCO shall have the right to recover the said amount from any amount receivable by GETCO or any bank guarantee deposited or anything payable whether in connection with this contract or other contract by the CONTRACTOR to the OBLIGEE.
- e. That the CONTRACTOR is/are aware and accept that for the persistent or repeated violation of any guidelines as per Annexure-A and terms and conditions mentioned in this Safety cum Indemnity Bond, GETCO shall have right to terminate the contract of work issued to the CONTRACTOR.
- f. In case if any safety related fatal Electrical / Mechanical accident occurred to any employee of agency or outsider due to negligence or non-compliance of GETCO safety norms then in addition to the compensation and liability as per statutory requirement, contractor / agency is hereby agreed to pay the penalty amount as given below:

Sr. No	Amount of Contract in Rs.	Penalty amount
1	Up to →1 Lac	Rs.5000/-



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2	Above 1 Lac to → 10 Lacs	Rs.40000/-
3	10 to --→ 100 Lacs	Rs.100,000/-
4	> 100 Lacs	1.0 % of contract value

g. I/We the CONTRACTOR hereby confirm that in case of any dispute/difference for settlement of claims under this Safety Cum Indemnity bond the courts in Gujarat State wherever job/work is performed or as per GETCO norms shall have the jurisdiction to decide the rights & liabilities of the parties while adjudicating the matter of claims under this Safety Cum Indemnity Bond.

h. This Safety cum Indemnity Bond shall continue and hold good until it is released by the GETCO in Writing on the CONTRACTOR's application after the Contractor has discharged all his obligations under the order mentioned hereinabove and submitted a "NO DEMAND CERTIFICATE" from the GETCO under the said order. The Safety cum Indemnity Bond shall be valid for a CONTRACT PERIOD and renewable thereof (Claim Period).

i. This Safety cum Indemnity Bond and the guidelines as per Annexure-A herein contained are in addition to And not by way of limitation or substitution for any other guarantee, indemnities Hereto before given to the GETCO by the CONTRACTOR and this indemnity does not Revoke or limit such indemnities or guarantees. IN WITNESS WHEREOF the Parties hereto have executed this Indenture the day the year First hereinabove written.

**[Signature with seal of The CONTRACTOR].**

In the presence of : Name and Add with sign.

1. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
2. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



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### **INDEMNITY BOND**

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

KNOW ALL MEN BY THESE PRESENTS THAT WE \_\_\_\_\_.

\_\_\_\_\_. ( Hereinafter called “ THE CONTRACTOR “ Which expression shall where the context so admits, include their heirs, executors, administrators and legal representatives, successors and permitted assings ) are hereby held and firmly bind into the Gujarat Energy Transmission Corporation Ltd.( Hereinafter called “ GETCO ” which expression shall where the context so admits, include its successors and assings ) to refund the full amount of Steel, cement and other materials supplied by the GETCO under the terms and conditions of LOI. No. \_\_\_\_\_, against any loss, damage or deterioration of whatsoever nature occurs to the said materials supplied by the GETCO and which are in the custody of the contractor at his works site on behalf of the GETCO at Amreli or if any of the said materials when inspected by any officer authorized by the GETCO in this behalf is found to be damaged, lost deteriorated in quality or quantity, the contractor hereby agree to pay the full amount forthwith the GETCO and hereby bind himself to indemnity and at all times keep indemnified the GETCO against all loss, damage and deterioration to the cement, steel and any material supplied by the GETCO within 30 days, the market value of such loss, damage and deterioration in full to the GETCO and shall also authorize the GETCO to deduct the said sum from any sum due to the contractor or any sum which at any time may become due to the contractor under the above referred contract or any other contract entered in to by the contractor with the GETCO.

AND WHEREAS THE CONTRACTOR do hereby agree to be responsible for the safe custody, protection and preservation of the said materials against all risks excluding work risks and against loss, damage and deterioration of whatsoever nature in respect of the said materials while it remains in the custody and possession of the contractor.

AND WHEREAS the said materials shall at all times be open for inspection by any officer authorized by the GETCO.





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NOW, the conditions of the above written bond are such the contractors shall pay the full amount forthwith to the GETCO in the event of loss, damage or deterioration or whatsoever except due to circumstances arising out of war or natural calamities in respect of the materials supplied by the GETCO and shall fully and effectually indemnity and keep indemnified the GETCO against such loss, damage and deterioration in time.

The contractor shall keep the said materials open at all times for inspection by the officers authorized by the GETCO and produce at any time when demanded.

IN WITNESS WHERE OF: WE THE

**SIGNATURE OF CONTRACTOR**  
**(With Name, Designation & Official Seal)**

\_\_\_\_\_  
Here to sign at Amreli.

This \_\_\_\_\_ day of \_\_\_\_\_

In the presence of

**With Name, Address & Signatures :**

**1) Deputy Engineer (Civil-CMC)**  
**GETCO, C.O. Amreli**

**2) Superintending Engineer (TR.)**  
**GETCO, C.O. Amreli**



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**NON JUDICIAL STAMP PAPER OF RS. 300/- (Stamp Paper Validity Six months)**

### FORM OF BANKER'S UNDERTAKING

**[For Execution of Contract and Performance Guarantee (PG) for Warranty period  
as per Commercial Terms and Conditions of Tender]**

To,

The Superintending Engineer (TR)  
Gujarat Energy Transmission Corporation Ltd,  
Circle office,  
Amreli.

BG. No.  
Issue Date  
Expiry Date  
Amount

In consideration of the ..... [Insert name of the Supplier / Contractor / Agency, Address]  
who have entered into a contract for the supply/works specified below:

LOA / A.T. No. \_\_\_\_\_ dated \_\_\_\_\_ with Gujarat Energy Transmission Corporation Limited (herein after referred to as GETCO), We ..... [Insert name and address of the bank issuing the guarantee and address of the Registered office] (hereinafter referred to as "Guarantor Bank") hereby agrees unequivocally, irrevocably and unconditionally to pay to the GETCO at Circle office, Amreli forthwith on demand in writing from the GETCO or any Officer authorized by it in this behalf, any amount up to and not exceeding Rupees ..... only [Insert the amount of the bank guarantee].

This Bank Guarantee shall be valid and binding on the Guarantor Bank up to \_\_\_\_\_ with a right to seek encashment for a period up to 30 days from the said Date (Date of Expiry of BG) and shall in no event be terminable by notice or any change in the constitution of the Bank or the term of the Agreement or by any other reasons whatsoever and our liability hereunder shall not be impaired or discharged by any extension of time or variations or alternations made, given, or agreed with or without our knowledge or consent, by or between parties to the respective agreement.

Our liability under this Guarantee is restricted to Rupees... (Rs. .... only). Our Guarantee shall remain in force until ..... [Insert Date of Expiry of BG]. The GETCO shall be entitled to invoke this Guarantee any time up to thirty (30) days of the last date of the validity of this Guarantee i.e. \_\_\_\_\_ [Date of Expiry of BG + 30 days] by issuance of a written demand to invoke this guarantee.

The BANK GUARANTEE can also be presented at the \_\_\_\_\_ [hereinafter referred to as Local Branch at Amreli] of the \_\_\_\_\_ (Issuing Bank of BG) for its Invocation.

The Guarantor Bank hereby expressly agrees that it shall not require any proof in addition to the written demand from the GETCO, made in any format, raised at the above mentioned address or local branch at Amreli of the Guarantor Bank, in order to make the said payment to the GETCO at Amreli.

The Guarantor Bank shall make payment hereunder on first demand without demur and without raising any restriction or conditions and notwithstanding any objection by, ..... [Insert name of Contractor/Supplier/Agency] and/or any other person.



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The Guarantor Bank shall not require the GETCO to justify the invocation of this BANK GUARANTEE, nor shall the Guarantor Bank have any recourse against the GETCO in respect of any payment made hereunder.

This BANK GUARANTEE shall be a primary obligation of the Guarantor Bank and accordingly the GETCO shall not be obliged before enforcing this BANK GUARANTEE to take any action in any court or arbitral proceedings against the \_\_\_\_\_( Name of party) to make any claim against or any demand on the \_\_\_\_\_( Name of party) or to give any notice to the \_\_\_\_\_( Name of party) or to enforce any security held by GETCO or to exercise, levy or enforce any distress, diligence or other process against \_\_\_\_\_( Name of party)

This BANK GUARANTEE shall be interpreted in accordance with the laws of India and the courts at Amreli shall have exclusive jurisdiction.

The Guarantor Bank represents that this BANK GUARANTEE has been established in such form and with such content that it is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein.

This BANK GUARANTEE shall not be affected in any manner by reason of merger, amalgamation, restructuring, liquidation, winding up, dissolution or any other change in the constitution of the Guarantor Bank.

The Guarantor Bank hereby agrees and acknowledges that the GETCO shall have a right to invoke this Bank Guarantee either in part or in full, as it may deem fit.

Any Demand made by GETCO on the Guarantor Bank or its Local Branch at Amreli shall be conclusive and binding not withstanding any difference between GETCO and \_\_\_\_\_[Name of Supplier/Contractor/Agency] or any dispute pending before any Court, Tribunal, Arbitrator or any other Authority. Notwithstanding anything contained hereinabove, our liability under this Guarantee is restricted to Rs..... (Rupees.....only) and it shall remain in force until .....[Insert date of validity of BG], with an additional claim period of thirty (30) days of the last date of the validity of this Guarantee i.e.\_\_\_\_\_ [Date of Expiry of BG + 30 days]. We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only if the GETCO serves upon us a written claim or demand.

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

Witness:

1. ....

Name and Address.

2. ....

Name and Address

Signature(s) of

\_\_\_\_\_  
Constituted Attorney with POA No. and  
round seal of Bank

OR

Signature of Two Bank Officials with their  
sign, sign code nos. & round seal of Bank



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### CONTRACT AGREEMENT

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

This Agreement is made at Amreli the \_\_\_\_\_ day of \_\_\_\_\_ in the Christian Year Two thousand Twenty Three 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/LOI 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 transmission 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/LOI No. \_\_\_\_\_



## Gujarat Energy Transmission Corporation Ltd.

Transmission Circle Office, Near 66kV Sub-station, Keriya Road,  
Amreli – 365 601.

e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



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 \_\_\_\_/\_\_\_\_/2023
2. GETCO order/LOI No. \_\_\_\_\_ Dtd. \_\_\_\_ / \_\_\_\_/ 2023
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.

### Signature of Contractor

In the presence of name, Full Address & Signatures :

1)..... (2) (Signature with Name, Designation & Official Seal)  
.....  
.....  
.....  
.....  
On behalf of GETCO.

2) ..... Deputy Engineer (Civil-CMC)  
..... GETCO, C.O. Amreli  
.....  
.....

Superintending Engineer (TR.)  
GETCO, C.O. Amreli



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### (UNDERTAKING IN REGARD TO STOP DEAL/BANNED FOR BUSINESS DEALING/BLACK LIST THEREOF IN FIRM'S LETTER PAD)

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





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### A/T ACCEPTANCE LETTER: -

(TO BE SUBMITTED ON FIRM'S LETTER HEAD)

Ref. No.

Date:

To,  
The Superintending Engineer (TR)  
Gujarat Energy Transmission Corporation Ltd,  
Power House Compound,  
Station Plot  
Amreli – 360 311

Sub: \_\_\_\_\_

Reference

1 Tender No :-

2 W.O No. :- \_\_\_\_\_

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

(Signature)

Designation \_\_\_\_\_

Firm stamp



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(TO BE SUBMITTED ON FIRM'S LETTER HEAD)

Date:

### **Declaration of Conflict On Interest**

To,  
The Superintending Engineer (TR)  
Gujarat Energy Transmission Corporation Ltd,  
Circle Office, Amreli – 365 601

Ref: Tender Notice No.....

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,

(Signature of the Tenderer)



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(TO BE SUBMITTED ON FIRM'S LETTER HEAD)

Date:

### **Declaration of Relationship with employee**

To,

The Superintending Engineer (TR)

Gujarat Energy Transmission Corporation Ltd,

Circle Office, Amreli – 365 601

Ref: Tender Notice No.....

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,

(Signature of the Tenderer)



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### Format for Application for refund of EMD (TO BE SUBMITTED ON FIRM'S LETTER HEAD)

To,  
Superintending Engineer (TR),  
Transmission Circle,  
GETCO, Amreli.

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 L:1 for the same. The details are as under....

Tender No.	
Tender ID	
Name of work / Subject	
EMD Amount	
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 and Seal/Stamp of bidder )



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## ***SECTION :E*** ***APPENDICES***



## Gujarat Energy Transmission Corporation Ltd.

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### 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 a 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.

<u>Indoor safety precaution</u>	<u>Outdoor safety precaution</u>
The method of work required T&P and manpower should be discussed between GETCO supervisor, contractor's supervisor and gang leaders.	The method of work required T&P and manpower should be discussed between GETCO supervisor, contractor's supervisor and gang leaders.
Prior to execution of work a joint survey must be conducted by GETCO supervisor and contractor's supervisor for risk assessment. <ul style="list-style-type: none"> <li>Clearly identify the work location, to distinguish between the equipment that is dead and other equipment / part that may be live.</li> <li>Disconnect equipment from supply.</li> <li>Protect against other live parts.</li> <li>Take special precautions when close to bare conductors / Bus bar.</li> </ul>	Prior to execution of work a joint survey must be conducted by GETCO supervisor, contractor's supervisor and DISCOM line man in order to identify the following : <ol style="list-style-type: none"> <li>HT/LT line or tap line crossing under each span of line of the work.</li> <li>Isolation point of each line crossing.</li> <li>Each line crossing &amp; isolation point under each span must be discussed and noted in maintenance register with sketch.</li> </ol>
Following safety guidelines are mandatory for all contractors operating in GETCO premises for Electrical, non-electrical & civil works. <ol style="list-style-type: none"> <li>The contractors must provide advance planning of work to concerned in-charge of substation in writing.</li> <li>Before starting any work whether switch yard, "permit to allow to work" must be taken from control room in-charge.</li> <li>Utilizing Electrical / non-electrical equipments, safety rules must be implemented.</li> <li>If the work is to be carried out on Sunday or public holiday, the necessary permission must be taken in advance, requesting in writing.</li> <li>Unwanted person including children of labours will not be allowed at working site/ in the switchyard and in the prohibited area.</li> <li>Any electrical work or electrical connections to equipment for any other work must be carried out by certified</li> </ol>	Contractor's supervisor and GETCO Supervisor must ensure all isolations physically with adequate earthing technically prior to give clearance to gang leader for taking up job. <p>While execution of stringing work, the identified line crossing must be isolated / de-energized and written clearance should be obtained from concerned DISCOM supervisor.</p> <p>The isolation of Tap line must be physically seen and verified by Contractor and GETCO supervisor.</p> <p>At D.O. fuse junction contractors person should be posted to ensure that no person restore D.O. supply while work is under execution</p> <p>Contractor's supervisor must ensure that concern officer take LCP for EHV line and power line crossing.</p>





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<p>electrician/wiremen with adequate size of wire through MCB as per I.E. Rule.</p> <ul style="list-style-type: none"> <li>- Live penal area / bus bar must be isolated and sealed / bifurcated with red colour tape for visible warning.</li> <li>- Display Board must hang on LCP panel.</li> <li>- Transformer must be switched off whenever and wherever contractor and line workers are not satisfied with isolation, earthing or any equipment performance of GETCO, it will be pointed out and work shall begin only after resolution. Contractor shall not take up job in absence of GETCO authorized person. All wire temporary connection &amp; material whenever erection activity has any connection and disconnection work of bus bar, string bus.</li> </ul>	
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.
11 kV breaker in panel 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.
	<p>Transmission line activities.</p> <ol style="list-style-type: none"> <li>1) Used of Voltage detector to ensure outage.</li> <li>2) Earthing at three point, local, left &amp; right side of bus bar / string bus.</li> <li>3) Match line colour code with colour of wrist band.</li> </ol>
	<p>Local earthing of electrical equipments like filter M/c, welding machine, testing kits etc. is must.</p> <p>Crane shall only be used for material handling and erection. Working platform shall only be used for work in switchyard.</p>



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### (E) APPENDICES

## Gujarat Energy Transmission Corporation Ltd.

### 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: \_\_\_\_\_



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## Gujarat Energy Transmission Corporation Ltd.

### 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. No	Name of work with loca- tion and address	Work in hand			Work Tender for			Re- marks
		Tender Cost	Cost of Remain- ing work	Antici- pated Date of Comple- tion	Estimated Cost	Date when deci- sion Is Ex- pected	Stipulated Date or period Of Comple- tion	
1	2	3	4	5	6	7	8	9

**Contractor's Representative legible signature:**

Name of the person: \_\_\_\_\_

Seal of the company

Date & place: \_\_\_\_\_



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## Gujarat Energy Transmission Corporation Ltd.

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

**Contractor's Representative legible signature:**

Name of the person: \_\_\_\_\_

Seal of the company

Date & place: \_\_\_\_\_



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## Gujarat Energy Transmission Corporation Ltd.

### APPENDIX-IV

#### TENDERER'S DETAILS OF MACHINERY

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

Sr. No.	Description & De-tails 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: \_\_\_\_\_



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## Gujarat Energy Transmission Corporation Ltd.

### 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: \_\_\_\_\_





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## Gujarat Energy Transmission Corporation Ltd.

### 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	Bl. Sheet / P&L A/C, Statement of last three years.	
6	Latest Solvency certificate.	Rs. Lacs issued by Bank, branch dtd.
7	<b>GST Registration No.</b>	
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 Tenderer

Company's Round Seal

Date :

Place



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## Gujarat Energy Transmission Corporation Ltd.

### 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., Email & FAX NO:	
8.	Authorized person of the firm :	
9.	Name of the proprietor, partners, directors [as the case may be], along with address, telephone, Email, fax no. etc.	

**Contractor must fill up above details**

Signature of Tenderer

Company's Round Seal

Date :

Place



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### COMPLETION PERIOD.

**Name of Work:** Addition & Altration Work For SNCU Ward At Sub District Hospital, Rajula Ta. Rajula Dist. Amreli under GETCO'S Corporate Social Responsibility (CSR)

Sr. No.	Description of work	Completion Period in Days from date of commencement.
1	Addition & Altration Work For SNCU Ward At Sub District Hospital, Rajula Ta. Rajula Dist. Amreli under GETCO'S Corporate Social Responsibility (CSR)	06 Months



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# **PRICE BID**



## Gujarat Energy Transmission Corporation Ltd.

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GUJARAT ENERGY TRANSMISSION CORP. LTD.					
<b>Name of work: Addition &amp; Altration Work For SNCU Ward At Sub District Hospital, Rajula Ta. Rajula Dist. Amreli under GETCO'S Corporate Social Responsibility (CSR)</b>					
<b>SCHEDULE - B</b>					
<b>(A) Civil Works</b>					
Sr. No.	Qty.	Description	Unit	Rate	Total
1	24.00	Removing and scraping of old deteriorated plaster of any thickness from wall / R.C.C member including stacking of serviceable material and disposal of unserviceable from site of work with all lead and lift	Sq.Mt.	12.50	300.00
2	46.00	Dismantling tiled of stone floors laid in mortar including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift.	Sq.Mt.	30.87	1420.02
3	24.00	Providing 15mm thick cement plaster in single coat on Rough (Similar)side of single or half brick walls for interior plastering up to floor two level and finished even and smooth in (ii) Cement mortar 1:4 (1-cement :4-sand)	Sq.Mt.	140.02	3360.48
4	13.00	Providing and laying cement concrete 1:2:4 (1- Cement : 2- Coarse sand : 4-graded stone aggregates 20 mm nominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth (up to 10 ton)	Cum.	3033.80	39439.40
5	46.00	Providing and laying polished Kota stone slab flooring over 20mm (Average) thick base of cement mortar 1:6 (1-cement: 6-coarse sand) or L.M. 1:1.5 (1-Lime putty :1.5 - coarse sand) laid over and jointed with grey cement slurry mixed with pigment to match the shade of slab including rubbing and polishing etc. complete. (A) 25mm thick (up to 10 ton)	Sq.Mt.	798.00	36708.00
6	246.00	Providing and laying Ceramic tiles 6mm thick in skirting risers of steps and dedo on 10mm thick cement plaster 1:3 (1-cement : 3-coarse sand) and jointed with white cement slurry (up to 10 ton)	Sq.Mt.	643.65	158337.90
7	5.00	Providing and laying Ceramic tiles 6mm thick in flooring treads of steps and landing laid on a bed of 12mm thick cement	Sq.Mt.	623.70	3118.50



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		mortar 1:3 (1-cement: 3-coarse sand ) finishing with flush pointing in white cement. (up to 10 ton)			
8	5.00	Providing and fixing sand which type platform including supplying and fixing black granite stone 18 mm thick mirror polished stones in top and side position and vertical strip at front over 25 mm thick polished kotah stone platform fixing in top and sides and intermediates supports sandwiched fixing with cement mortar and adhesive and finishing including To make hall for fixing Kitchen/Laboratory sink , (ceramic sink) 600 mm x 450 mm x 150 mm size(as directed by engineer in charge) at required position etc complete	Sq.Mt.	4169.00	20845.00
9	13.00	Providing & fixing in position partly fixed and partly openable standard extruded Aluminium door with color anodized hollow section frame of approved shade & pivoted double shutter fabricated from aluminium standard section for outer frame size 101 mm x 44.5 mm X 2 mm Thick (of app. Wt. 2.60 kg / Rmt) and door styles and toprial of aluminium section size 47.5mm x 44.5 mm X 2.00 mm Thick (of app. Wt. 1.25 kg/ Rmt) Bottom rail & lockrail for door of size 114mm x 44.5mm X 2 mm Thick (of app. Wt 1.75 Kg/Rmt) and providing rubber gasket and glazing chips around the glass allover including providing heavy handle, heavy lock, bracket, stoppers.Floor Spring,Aldrop (Color anodised) 5 mm th. transparent float glass of copper tint (Structural Glass) fixed with rubber gasket and 19 x 17 mm size Glasing Clip same in Bottom Portion with providing 9 mm thick decorative water proof Both side prelamina-taed pressed wood based board with fixing Glasing clips 19 X 17 mm including all required materials labours and equipments as per detailed drwg. as directed.	Sq.Mt.	5643.00	73359.00
10	4.00	providing and fixing aluminium colour anodized single shutters having standared extruded aluminium colour anodized hollow sections frame of size 101	Sq.Mt.	2933.00	11732.00





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		mm x 44.5 mm (approximate wt 1.2 kg per Rmt) and door styles and top rail of aluminium section size 47.5 mm x 44.5 mm (approximate wt 1.05 kg per rmt) and bottom rail and lock rail per door of size 114 mm x 44.5 mm (approximate wt 1.3 kg per rmt) and providing rubber gasket and glazing clips around the glass all over including providing 12 mm thick decorative water proof Both side prelaminatead Partical board with fixing Glasing clips 19 X 17 mm including providing heavy locks handels stoppers pivots door closers and Ground Glass 5 mm thick (Frosted or obscured on one side) on top with fixing Glasing clips 19 X 17 mm including all labour and equipments etc complete			
11	16.00	Providing & fixing in position standard extrude Aluminium Three track with Three sliding shutters in which Two Shutters with Glass and one shutter with Stainless Steel Mosquito net In Opening Position always one of Mosquito net shouter should be in Close Position all window section with colour anodized in which Periphery Pipe Frame Section 92.00 x 29.5 X 1.20 mm (having wt per Rmt 1.005 Kg) Pipe Frame section should be Used for Supporting three track top, sides and Bottom section is to e used of size 92.00 x 29.50 x 1.20 mm size (having wt per Rmt 0.907 Kg) Rail Sections all around For Sliding should be Used of 92.00 X 31.50 X 1.20 mm (having Standard wt per Rmt ) and top section for all Three Sliding shutters Top and Bottom rail 20.00 x 50.00 x 1.50 mm ( having weight per Rmt = 0.642 Kg) handle section of size 20.00 x 50.00 x 1.50 ( having weight per Rmt = 0.571 Kg) and interlock rail 20.00 x 50.00 x 1.50 mm ( having weight per Rmt = 0.697 Kg ) of approved shade & sliding shutters and providing rubber gasket and Glazing Clips if necessary around the glass allover including providing heavy handle, heavy lock, bracket, stoppers.	Sq.Mt.	2896.00	46336.00



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12	59.00	Providing & fixing in position standard extruded Aluminium Partition with Color anodized hollow section frame of approved shade of without shutter fabricated from aluminium standard section for all around frame size 127 mm x 38.10 mm X 1.35mm (of app. Wt. 1.384 kg / Rmt.) providing rubber gasket and glazing chips around the glass allover including providing heavy handle, heavy lock, bracket, stoppers. 5 mm th. transparent float glass of copper/ gray tint (Structural Glass) fixed with transparent silicon gasket including all required materials labours and equipments as per detailed drwg. as directed.	Sq.Mt.	2029.00	119711.00
13	1417.00	Painting two coats antibacterial paint, brushing, interior to give an even shade including cleaning the surface an even shade including cleaning the surface of all dirt, dust and other foreign matter.	Sq.Mt.	202.00	286234.00
14	1417.00	Applying two coats of Birla (white cement based) or Asian (acrylic lapy- putty) or equivalent & two coats of primer of approved brand and manufacture on new wall surface to give an even shade including thoroughly brushing the surface free from mortar dropping and other foreign matter and sand papered smooth.	Sq.Mt.	47.41	67179.97
15	94.00	Removing and refixing anytype of existing door, window OR CUPBORD with frame and shutters including making good the damaged wood work and anytype of aluminium work etc complete.	Sq.Mt.	701.00	65894.00
16	53.00	Providing and fixing homogenous Vinyl flooring 2.00mm thick and polyurthane reinforced with weight loss than 2.80 kg/sqmt with good chemical resistant and that which do not fauren fungi and bacterial growth with thickness loss of less than 0.15mm and volume loss than 400mm cube and i roll from jointed by heat seam welding and with 25mm pvc covering at junction and making color coping at the end of seal the joint of tarkett optima spica or equivalent make etc completed as per the design and shade approved by eng.in charge	Sq.Mt.	1621.00	85913.00



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17	10.00	Providing laying and jointing in true line and level 15mm dia. U.P.V.C. Pipe (SCH-40) for cold water including fittings make PRINCE / SUPREME / ASTRAL / FINOLEX or equivalent as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	Rmt.	84.87	848.70
18	15.00	25mm dia	Rmt.	107.29	1609.35
19	67.00	40mm dia.	Rmt.	173.03	11593.01
20	98.00	Providing, laying and jointing in true line and level 110 diameter U.P.V.C (Type B) conforming to IS 13592-1992 with one end plain and other end socketed with rubber ring, & fittings conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 110 mm diameter x 149 mm length x 145 mm height at every 2000 mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all materials.	Rmt.	551.25	54022.50
21	125.00	Providing, laying and jointing in true line and level 160 diameter U.P.V.C (Type B) conforming to IS 13592-1992 with one end plain and other end socketed with rubber ring, & fittings conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 160 mm diameter x 210 mm length x 196 mm height at every 2000 mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pipes and joints and jointed	Rmt.	927.25	115906.25



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		with adhesive solvent cement including cost of all materials.			
22	3.00	Providing and fixing PVC SWR Nahni trap IS 14735 for drain - 100 mm diameter with jali of the following nominal diameter of self-cleansing design with C.I scread down or hinged grating including the cost of cutting and making good the walls.	each	368.55	1105.65
23	3.00	Providing and fixing washbasin with single hole for pillar tap with C.I. or M.S. brackets painted white including sutting holes and making good the same but excluding fittings. (A) Vitreous China:(ii) Flat Back washbasin 550 mm x v 400mm size. (i) In white colour.	Each	933.45	2800.35
24	2.00	Providing and fixing wsh down water closet (European type, W.C. Pan) with integral P or S trap including jointing the trap with soil pipe in Cement Mortar 1:1 (1-Cement : 1-fine sand) (Seal and cover to be measured and paid for separately)(A) vitreous China Pattern :(i) in white colour	Each	919.80	1839.60
25	6.00	Providing and fixing screw down bib taps of following size.(B) Brass chromium plated screws down Bib Tap. (i) 15mm dia.	Each	218.29	1309.74
26	2.00	Providing and fixing Gun metal check or non-return fullway wheel valve.(C) 25mm dia.	Each	491.44	982.88
27	2.00	Providing and fixing chromium plated brass half turn flush cock of approved quality including fixing in pipe line etc. complete.(ii) 25 mm. Dia	Each	308.17	616.34
28	2.00	Providing and fixing S.W. gully trap with C.I. grating brick masonry chamber and water tight C.I. cover with frame of 300mm x 300mm size (inside) with standard weight. (i) Square mouth traps. (B) 150mm x 100mm size P or R type	Each	1231.65	2463.30
29	5.00	Constructing brick masonry chamber for underground C.I. Inspection chamber and bends with briocks having croshing strength not less than 35Kg. Cm2 in C.M. 1:5 C.I. cover with frame	Each	2649.15	13245.75



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		(Light duty) 455mm x 610mm intenal di- mensions total weight of cover with frame to be not less than 38Kg. (Wt. of cover 23 Kg.) and Wt. of frame 15Kg.) (R.C.C. top slabe with 1:2:4 mix (1- ce- ment: 2- coarse sand :4-graded stone ag- gregate 20mm size) foundation concrete 1:5:10 inside plaster 15mm thick with ce- ment mortar 1:3 finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete.(i) Inside di- mensions 455mmx 610mm and 450mm deep for single pipe line. (up to 10 ton)			
30	6000.00	Providing and rerection double coated syntax or equivalent PVC(ISI) water tank or required capacity each with all neces- sary fitting and connection etc complete	Ltr	15.00	90000.00
31	57.00	Providing galvanizing sheet 0.18-1.20mm (BMT) thick. & AZM 150 to AZM 210 Coat- ing (the alloy-coated product contains 55% aluminium, 43.5% zink and 1.5% sil- icone by weight) roofing fixed with galva- nized iron) or L hooks, bolts and nuts 8mm dia with hexagonal nut, rubber and GI steel cup (limpet) washer only. (with installation sheet) filled with white lead complete excluding the cost of purlin, rafter and truss	Sq.Mt.	1434.20	81749.40
32	1850.00	Structural steel work (Compfirming to IS 4923-1997) riveted, bolted or welded in buitup for all type of section, in framed work, including cutting, hoisting, fixing in position and applying a primer cost of ap- proved steel primer all competed as per the structure design and direction of EIC	kg	115.73	214100.50
<b>Civil Works Total (A) =</b>					<b>16,14,081.59</b>
<b>(B) Electrical Works</b>					
Sr. No.	Qty.	Description	Unit	Rate	Total
33	48	Point wiring for Light / Bell with 2-1.5 sq.mm & earthwire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires, in following type of pipe to be erected concealed in/ on surface on wall/ceiling complete with 6A Modular type switch /	pt	495.00	23760.00



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		bell push & accessories and earth continuity of following type, erected on PVC / Metallic box, single mounting base frame covered with textured/metallic front plate modules erected on / in wall / ceiling as per pipe erected, with necessary Lamp holder/ceiling rose / H.D.Connector as directed. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat. III			
34	16	Point wiring for FAN with 2-1.5 sq.mm & earthwire of 1.5 sq.mm (Green) both are of .ISI marked 1.1 KV Grade FRLS PVC insulated multistrand copper wires, in following type of pipe to be erected concealed in / flushed on wall/ceiling complete with 6A Modular type switch and hum free EME four or more step type electronic fan regulator with separately mounted and accessories with earth continuity of following type erected on PVC / Metallic box, single mounting base frame covered with textured/metallic front plate modules erected on / in wall / ceiling as per pipe erected. with necessary ceiling rose / H.D.Connector as directed. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat. III	pt	695.00	11120.00
35	12	Point wiring for Individual Plug with & earthwire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires, in following type of to be erected concealed in / on surface of wall / ceiling complete with Modular type switch & 5 pin Plug erected on PVC / Metallic box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories.[I] For 6A Plug and 6 a switch with 2-1.5 sq.mm Cu. Wire from nearby switch-board/mcb db board (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat. III	Ea	523.00	6276.00
36	12	Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are	Ea	906.00	10872.00





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		of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories.[III] For 16A Plug and 16 amp switch with 2-4 sq.mm Cu. Wire with 2.5 sq.mm ( green) earthing wire from mcb d b board. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat. III			
37	10	Point wiring for on board Looped Plug with 6A Modular type switch & 5 pin socket erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate modules erected on / in wall / ceiling with following type accessories. Cat. III	pt	266.00	2660.00
38	20	Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate, modules erected with necessary connections as per site situation directed by Engineer In-charge. (7) Blank Plate Single Cat.III	Ea	28.00	560.00
39	24	Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate, modules erected with necessary connections as per site situation directed by Engineer In-charge. (9) 16 Amp. SP one way switch Cat.III	Ea	200.00	4800.00
40	24	Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate, modules erected with necessary connections as per site situation directed by Engineer In-charge. (10) 6/16Amp. Universal socket	Ea	222.00	5328.00
41	140	Providing and erecting ISI mark Medium class RIGID PVC PIPES of following size	mtr	26.00	3640.00



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		complete to be erected on/in wall or ceiling erected with necessary PVC fittings & Junction boxes fixed with adhesive solution & Clamps with following dia of pipes, in approved manner as directed .(a) 20 mm			
42	90	Providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size (a) with medium class Rigid PVC pipe and accessories.(a) 2 wire 1.5 sq. mm	mtr	68.00	6120.00
43	360	Providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size (a) with medium class Rigid PVC pipe and accessories(b) 2 wire 2.5 sq. Mm	mtr	90	32400.00
44	180	providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in / on wall / ceiling with 2.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size(A) with medium class Rigid PVC pipe and accessories(a) 2 wire 4 sq. mm	mtr	123.00	22140.00
45	20	providing and erecting Mains with ISI marked, 1.5KV grade electrolyte multi stranded, annealed copper conductor with heat resistant PVC insulated conforms to IS 694, IEC - 227 erected in existing pipe of following size (Specifically for control panel, relays, power switchgears, motor starters & control wiring) with required size of copper lugs, nuts and bolts if required.(g) One wire 16.00 sq. mm	Mtr	157.00	3140.00



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46	180	Supplying & erecting approved make LAN cable of following size in existing pipe as per direction [D] CAT - 6 e	Mtr	84.00	15120.00
47	25	Providing & erecting Switch board for Computer or electric apparatus consisting of following modular type accessories mounted with PVC / Metallic concealed/open box with single mounting base frame covered with textured/metallic /white front plate,modules erected with necessary connections as directed 1 no. 6A/16A universal plug-switch combined. 3 nos. 6A Switch 3 nos. 6A 5 pin Plug [B] For Modular Type Accessories Cat. III	Ea	1262.00	31550.00
48	20	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/ aluminium die cast powder coated and high U.V. & corrosion resistance with diffuser with company mark/name 160V to 270V, Power Factor more than 0.9, THD < 15%, CCT 3000 K to 6500K, Luminaire efficacy > 85 lumens/watt, LED LED driver efficiency > 85 % (fitting required LM-79 & LM-80 Certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.)(A) Tube Light with integral driver (v) 36-40 Watts, Surge-2 KV, IP-20, conventional 4 feet Cat-III	Ea	690.00	13800.00
49	25	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/aluminium pressure die cast powder coated and high U.V. & corrosion resistance with diffuser housed in aluminium casted body with company mark/name 160V to 270V,Power Factor more than	Ea	600.00	15000.00



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		0.9, THD < 15 %, CCT 3000 K to 6500K, Luminaire efficacy > 85 lumens/watt , LED driver efficiency > 85 % (fitting required LM-79 & LM-80 Certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.)(B) LED Panel Light with provision for Plane front frame with translucent cover fixed to housing complete.IP20 (iii) 12-15 watts, 6" x 6", Surge-2 KV Cat-III			
50	2	Providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 35 KA. at 415 V. having normal current rating 125A. with Fixed thermal & magnetic release suitable to work on A.C.supply 50 c/s. with all internal connections, spreader tinned copper & complete erected in existing 16 G.M.S. housing. ICS=100% of ICU only Cat III	Ea	9410.00	18820.00
51	1	Supply of Approved make Iron Clad or metal clad four pole change over switch 415V. confirming to IS of following capacity (B) 100 A / 125 A Cat III	Ea	14300.00	14300.00
52	1	Providing and erecting busbar chamber confirming to IS-375 fabricated from 16 G.M.S. sheet, dust & vermin proof having hinged door with rubber gasket and necessary busbar supports with COPPER busbar having current density not more than 1.6 Amp. / sq.mm (Rated current / cross section area) duly wrapped with colour insulation tape for phase sequence, three phase & neutral each suitable for following current capacity with necessary painting mounted on wall or pedestal frame of required size with necessary connections. (B) Suitable for 200 Amp. capacity	Ea	5380.00	5380.00
53	36	providing and erecting Miniature circuit breaker single pole 6A to 25A suitable to operate on 240 V A.C. system and having breaking capacity 10 KA to be erected in	Ea	130.00	4680.00



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		existing box. confirming to IS 8828/1996 with ISI Mark Cat.III			
54	6	Providing & erecting 240 V MCB double pole switch for motor & inductive load (C Curve) having 10 KA breaking capacity & confirms to IS: 8828 in existing box having following capacity (A) 6 to 32 Amp. Cat.III	Ea	350.00	2100.00
55	2	Providing & erecting 415 V MCB Four Pole for Motor & Inductive Load (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity (c)63 Amp. Cat. III	Ea	860.00	1720.00
56	5	Supplying & erecting approved make Electronics Starter and relay for air conditioners in ABS plastic moulded housing. Company fabricated with bake lite terminal for connection with silver coating bi-metallic contact in switching device for o/p with following features. (1) Low Voltage Protection below 130 V (2) High Voltage protection above 270 V (3) Overload protection for 2-5, 4-10, 8-14, 10-16, 14-22 Amp. (inverse time chara-) (4) Indicating LEDs for AC on LV, HV, O/L, T/D (5) With unique feature of 3 minute of time delay	Ea	1035.00	5175.00
57	4	Plastic enclosure fitted with DIN rail suitable for incorporating Three /Four nos. MCB	Ea	125.00	500.00
58	2	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for(B) three phase incoming and single phase horizontal type outgoing Per phase isolation type (PPI)(b) sheet steel double door(iii)8 way	Ea	3986.00	7972.00
59	6	providing and erecting Approved make RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 10 KA and suitable for operation on single phase 240 V,50Hz. having characteristic of quick action &	Ea	2300.00	13800.00



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		tripping with all advance feature & do not incorporate any electronic component. for following Max. rating erected as directed (i) 25 Amps. DP Cat. III			
60	2	Providing and erecting Approved make RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 10 KA and suitable for operation on 3 phase and neutral 415V,50Hz. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component for following Max. rating erected as directed. (iii) 63 Amps. FP Cat. III	Ea	3550.00	7100.00
61	12	Providing & Erecting Annealed bare copper wire 8 to 16 SWG	kg	928.00	11136.00
62	5	Supplying & erecting earth pit of minimum bore dia.150mm size approved make Earthing Electrode consisting Pipe-in-Pipe Technology as per IS 3043-1987 made of corrosion free hot dipped G.I.Pipes having Outer pipe dia of 50mm having 80-200 Micron galvanising, Inner pipe dia of 25 mm having 200-250 Micron galvanising, connection terminal dia of 12mm with constant ohmic value surrounded by highly conductive compound with high charge dissipation suitable for following type of applications with chamber and heavy duty cover.(approved make OEM has to submit test certificate) & having back filling compound of (B) Inner chemical (CCM Compound)- Resistivity:- 0.2 W/ meter testing as per IEC 62561-2017, Voltage drop:- < 1 volt at no load & dry form, Sulphur content:- <2%(C) Back fill Compound :- Earthing compound should be capable to retain moisture for long time Necessary test report must be submitted.(a) For Electrical Installation up to 440V in normal soil Length of pipe - 1 Mtr Back filling compound - 1 Nos Bag of 15 Kg.	Ea	5363.00	26815.00
63	1	Providing & erecting weather proof, dust & vermin proof, floor mounted front operated indoor type cubical panel board necessary IP-42 and above protection as	Smt	17410.00	17410.00





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		per approval from engineer incharge made from 14 SWG thick CRC M.S. sheet for outer body & doors, 16 SWG thick CRC M.S.sheet for internal partitions with necessary accesories , supporting angles/ flats channel including cutting, bending, drilling, welding, riveting with internal partitions & cable alley as per requirements & instruction of engineer-incharge with erection of supplied switch gears, BUSBARS, suitable size of inter connecting PVC copper wire / copper-aluminium strips, rubber grommets, rib, bakelite control fuses/MCB for measuring instruments, earth bus & earth bolts, foundation flange - bolts-base Plates, sufficient nos. of hinged doors, handles with locking arrangement and rubber gasket,heavy duty end terminal connection,danger notice board,necessary ventilation,earthing strip complete. The Panel shall be painted with epoxy powder coating. (The rates excludes the cost of switchgears, bus bars, inter connecting mains & Copper Aluminium strips, meters, Fuses etc. The dimension shall be measured excluding base beams) The panel shall be supplied with following approved manufacturers with following size. (B) The standard companies switch gear shall be used and only manufacturers at CPRI approved factory (i) with 350mm depth			
64	65	Providing and erecting XLPE(IS:7098) (I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (D) 3 1/2 core 70 Sq. mm ( 35 Sq. mm 1/2 core)	mtr.	434.00	28210.00
65	50	Providing and erecting XLPE(IS:7098) (I)-88 ISI armoured cable multistrand Copper conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe at road crossing or floor of following size of cables.(B) 4 core 16 Sq. mm	mtr	1149.00	57450.00



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66	5	Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete without going tails, insulating tape etc for following size of cables.(D) 2 to 4 core 16 Sq. mm	Nos.	54.00	270.00
67	2	Providing and, fixing heavy duty flange type brass double compression type cable gland with rubber ring for PVC insulated armoured cable complete without going tails, insulating tape etc for following size of cables. (C) 3 & 1/2 core 70 Sq. mm	Nos.	120.00	240.00
68	16	Providing & erecting Approved make Power Saving 50 Watt Ceiling Fan with double ball bearing ISI mark with Condenser 230 volt A.C. 50 Hz 1200 mm sweep complete having 3 blades with aluminium blades with, canopy & 30 cm. down rod erected with earthing.(Make shall be approved by Engineer in charge))	Ea	2070.00	33120.00
69	16	Supplying & erecting Fan Hook of 10 mm M.S. Round bar grouted in RCC slab with Making the site as original.	Ea	50.00	800.00
70	16	Supplying and erecting 19 / 20 mm. nominal bore Medium Class M.S. Pipe down rod erected duly painted for fan complete with proper insulation without leakage and earthing.	mtr	125.00	2000.00
71	1	SITC of Micro-processor based Net worakable Analogue Addressable Fire-Alarm Control Panel. The Panel shall be compliant with EN 54-2, EN 54-4 and approved by LPCB.The Fire Alarm Control Panel shall have in-built one loop and expandable capacity upto 2 loops. The Panel must have large graphic display. The Panel must also have the capability to take Addressable Intelligent Wiredand Wireless Devices on same loop. Each loop shall have a capacity of 127 analogue Addressable device sand 127 Base sounders/Base Sounder Beacons. The Panel shall have 240V AC power supply along with automatic Battery Charger. Approved by LPCB (Including Five year free maintenance with guarantee.)	Nos.	148680.00	148680.00



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e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



72	1	SITCof Local LCD Control Repeater Panel to be integrated with Fire Alarm Control Panel. Panel should have 8 lines of 40 characters graphic LCD and shall be compliant with EN54-2,EN54-4 and Approved by LPCB (Including Five year free maintenance with guarantee)	Nos.	88500.00	88500.00
73	30	SITC of Analogue Addressable Smoke Sensor which is fully compatible with Analogue Addressable Protocol, having removable high performance chamber with Twin fire LED' sallow 360 degree viewing, User selectable sensitivity modes 1%to4.5% obs/m, Incorporate Opticalelements, lock mechanism (sensortobase), Electronically addressed, Pulsing/non-pulsing controlled from panel.Approved by LPCB&VdS.	Nos.	4248.00	127440.00
74	2	SITC of Response Indicator - Dual LED (Metal square plate type)	Nos.	177.00	354.00
75	4	SITC of Analogue addressable loop powered Base Sounder, variable sound output 50~98dB(A)(±2dB(A)) output at 1metre, 51user selectable tones (alltones EN54-3 compatible), Auto shut down feature prevents noise-pollution, Approved by LPCB&VdS	Nos.	5664.00	22656.00
76	4	SITC of Analogue Addressable Dual Zone Monitor with integral Short Circuit Isolator which allow Supports two independent zones of 30 conventional detector seach (total60conventionaldetectors). Both zones fully monitored for short/opencircuit, Addressing via DILswitches, Approved by LPCB.	Nos.	27612.00	110448.00
77	4	SITC of Analogue Addressable Manual Call Point with Integral Short Circuit Isolator, Analogue Addressable Protocol having, Bi-coloured status LED (red for alarm, amber for (short-circuit), Non-frangible element fittedas standard (conforms to EN54), pulsing/non pulsing can selectable via panel, Electronically addressed, Approved by LPCB.	Nos.	7080.00	28320.00
78	450	Supplying & laying of 2x1.5 sq mm fire alarm armoured cable, 600/1000V rated with annealed copper conductor having XLPE insulation, steel wire armouring	mtr	145.00	65250.00



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		& FRLS outer sheath complete as required.			
79	3	Providing and erecting approved make split air-conditioning unit consisting of copper condensing unit with fan motor, hermetically sealed rotary compressor with accessories etc. duly connected separately erected evaporating unit and blower motor with its accessories by means of extra supplied proper insulated copper tubing, drain PVC pipes suitable for (cost includes powder coated Stand, Eco Friendly green gas charging, 15A plug top & Remote Control) with necessary core cutting. For 4/5 star Rating of current year (c) for 2 ton capacity	Nos.	62840.00	188520.00
80	15	Supplying and erecting insulated pair of soft copper tubing open or concealed including power and control cable, necessary PVC drain pipes for Split AC machine up to 4 TR capacity	mtr	960.00	14400.00
81	1	Supplying and erecting approved make panel mounting type Digital Voltmeter having 3 digits LED display, 0 to 750 AC Volts range erected on existing panel board with all connection, wiring etc. with manufacturers calibration certificate.	Nos.	1490.00	1490.00
82	1	Supplying and erecting approved make panel mounting type Digital Ammeter having 3 digits LED display, external CT operated, calibrated for 0 to 1000 Amps suitable to operate on 500 Volt AC , erected on existing panel board with all connection, wiring etc. with manufacturers calibration certificate.	Nos.	1820.00	1820.00
83	2	Supplying and erecting approved make suitable panel indicator lamps of LED type lamp, lens cover, Bakelite holder complete erected with necessary connections.	Nos.	50.00	100.00



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84	1	<p>Supplying and erecting, commissioning and testing of Diesel Generating set confirming to IS: 4722:1968 &amp; BS:5514 having continuous rating, 3 phase, 415 volts, 50 cycles A.C. supply comprising of a totally enclosed air/water cooled diesel engine with multi-cylinders developing suitable BHP not less than following capacity at 1500 RPM with 10% overload for one hour in 24 hours with standard accessories like fly wheel, lubricating oil cooler, "A" class governor, heavy duty fuel wheel and lubricating oil filter, oil bath air filler, lubricating oil pressure gauge, end exhaust manifold, standard set of tools with adjustable spanners, screw drivers, cylinder head to cover, joint cylinder head to exhaust, element lube oil filter, 12 / 24 volts electric starting equipment complete with standard heavy duty battery, dynamo, cut-outs, ammeter, necessary wiring, pressure gauge, starter etc and heavy duty Residential type exhaust silencer and vertical hot air duct both logged with asbestos rope, save oil trays, exhaust piping of required length, standard wall/floor mounted fuel with level indicator and piping and drip proof alternator, self-excited, self-regulated, screen protected, with excitation system, capable of delivering the rated system output at 415 volts, 3 phase, 0.8 PF, 50 Hz, 4 wire, running at 1500 RPM, conforming to IS-4722- 1968 with voltage regulation +/- 5% of rated voltage from no load to full load. Both the engine and alternator fitted on a common fabricated steel base plate with anti-vibration mounting engine and alternator both connected to each other by flexible flange coupling and with floor/wall mounted control panel box comprising of voltmeter ammeter, selector switches, ACB / MCCB / MCB of adequate capacity, indicator lamps duly wired with HRC fuses. The alternator &amp; control panel shall be connected with provided suitable capacity armoured cable and complete with Acoustic enclosure</p>	Nos.	479800.00	479800.00
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e-mail : [setramreli.getco@gebmail.com](mailto:setramreli.getco@gebmail.com), [setramreli@rediffmail.com](mailto:setramreli@rediffmail.com)



		(canopy) made out of 16 SWG CRCA Sheet, sound absorbing material Rock-wool of 64 density & 100 mm thick conforming to IS:8183 / PU Foam of 40 Density - at least 40 mm. The resin bonded rockwool covered from inside the canopy by perforated sheet with 3/4 mm holes, sound level not more than 75 dB at a distance of 1 mtr, as per PVCT norms. Erection, commissioning and satisfactory testing as per requirement with first filling of fuel, oil, etc. with guarantee / Warrantee of complete system for Two years. & with obtaining all necessary certificate from Electrical Inspector. The Capacity and Ratings of DG sets are as below.(F) Continuous Rating of 40 KVA ,BHP not less than 52 BHP.			
85	1	<p>Providing &amp; erecting approved make AMF control panel suitable for following size of 3 phase, 415 V., 50 cycles, A.C. diesel generating set complete of scope as detailed below:</p> <p>1) Power module: A pair of electromechanically interlocked contactors (for mains &amp; generator) Overload relay for generator contactor Neutral contactor for mains and generator Power socket for connections.</p> <p>2) Control and metering module: Line voltage monitor. Generator voltage monitor Ammeter 3 items attempt start facility. Air circuit breakers/MCB/MCCB of suitable rating for auto/manual operation. Auto/manual switch. Emergency stop push buttons. Manual start push button. frequency meter. Engine hour meter. Two earthing studs.3) Protection module: The engine shutdown in the unlikely event of Low lube oil pressure High cylinder head temperature. V belt failure.</p> <p>4) Indicators with alarm Load on generator.</p> <p>5) Indicators Load on mains Engine fails to start . Emergency stop battery charger. The AMF Panel of following capacity (A) AMF Control Panel for 50/62.5 KVA 3 phase DG Set</p>	Nos.	113700.00	113700.00





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86	1	Supplying and erecting Servo Controlled Voltage Stabilizer (SCVS) as per following requirement: (1) Input Voltage Range - Three Phase 340 To 480 Volt AC. (2) Output Voltage - Three Phase 415 Volt AC (Line - Line) with Voltage Regulation of +/- 1%. (3) Frequency range - 47 Hz To 63 Hz. (4) Efficiency - More or equal to 98%. (5) Type of Stabilizer - Suitable for Balance & Unbalance Load and Voltage (6) Controlled Type - Digital Micro Controller Based Display. (7) Rate Of Correction - Upto 100 Volt / Sec (Line - Line) (8) Servo Motor Drive - AC Synchronous Stepper Motor - As per KVA Capacity, Output voltage and Voltage regulation requirement. (9) Nil Wave form Distortion and Effect of Load Power. (10) Response Time - 10 milli second. (11) Protection requirements - Input low Cut off protection / Input High Cut Off Protection / Output Low Cut Off protection / Output High (12) Fault Annuciation Panel LED shows Input present, Input high Input low, Output Normal, Output High, Output low, Overload. (13) Output On time delay - 10 seconds (14) Ambient Temperature capacity - 0 - 45 RH upto 90 %. (15) Enclosure Type - IP55 (16) Type of Cooling - Air / Oil, (17) Output: Bypass switch with changeover switch & 4 yearS free replacement guarantee on Stamp paper. [G]30 KVA (Air Cooled).	Nos.	67973.00	67973.00
87	1	SITC of 43 Inch 500 NTS Brightness professional Display with Direct-Type LED, Viewing Angle : 178 Degree Verti, 178 Degree Hor. Operation 27x7, Native Resolution 3840 x 2160 (16:9) - UHD, 4 x USB (2 x 2.0, 1 x 2.0 internal, 1 x Type C), 0-40°C, ≤0.5 W, HTML 5 Browser Opera(4.9), Yes(internal) IEEE 802.11 a/b/g/n Dual WiFi certificated, BIS, YES CLASS A 3dB margin.	Nos.	125000.00	125000.00
88	1	Supply, Installation, Testing and Commissioning of Intel SDM Module (Core i7 11th Gen Processor, 8Gx2RAM, 256 GB Storage) with Dimension 175mmx110mm (Intel SDML arge compliant).	Nos.	217570.00	217570.00



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89	6	Supply, Installation, Testing and Commissioning of 4MP Varifocal Lens Dome Type Camera, H.2654 MPIR Turret Dome N/W Camera, Manual Varifocal 2.8-12mm, 50M, Micro SD, DC12V/PoE, IP67/IK10, Basic IVA, 4M Presolution (2560×1440), Trueday/night, Digital WDR, 3DDNR, HLC & BLC, Triple streams, Smart codec by ROI, Builtin MIC, Cyber Security, Basic intelligent video analytics, Audio In, NDAA Compliance, UL, CE, FCC Certified.	Nos.	13387.00	80322.00
90	1	SITC of 8 x 10/100/1000BASE-T PoE ports 2 x Gigabit SFP ports Advanced L2 switching and security features L2+ Static Routing Optional "standard mode" or "surveillance mode" management user interface 65W PoE budget.	Nos.	32568.00	32568.00
91	1	Supply, Installation, Testing and Commissioning of 8 Channel Network Video Recorder (NVR), 1, RJ 4510/100/1000 Mbps self-adaptive Ethernet interface, Supports H.265+/H.265/H.264/H.264+Decoding-formats, 1-ch@8MP/4-ch@1080p, Embedded NVR, 2HDD Bays, Upto 6TB capacity for each disk, HDMI, VGA output, Incoming band width 80 Mbps, Outgoing band width 80Mbps, CE FCC, BIS, Operating Temp -10 deg to 55 deg C, 2xUSB 2.0 and serial Interface.	Nos.	20688.00	20688.00
92	1	Supply Installation Testing & Commissioning of 4TB Surveillance Hard-disk.	Nos.	10820.00	10820.00
93	1	Supply Installation Testing & Commissioning of 9U Indoor Wall mount Rack with required accessories like 6 socket PDU, 1 Fan, 2 Hardware Mounting Packet, 1 Equipment Tray.	Nos.	9170.00	9170.00
94	2	Supplying & erecting D.C.P. type fire extinguisher for following capacity cartridge type with gun metal cap 150 gram CO2 gas cartridge, powder and brackets confirming to IS 2171 1985 and complete erected with necessary clamps made from 50 x 6 mm M S Flat with nuts and bolts grouted in wall complete. [A] For 5 Kg Capacity.	Nos.	2000.00	4000.00



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95	2	Supplying & erecting carbon dioxide (CO2) fire extinguisher user of following capacity with necessary clamps made from 50 x 6 mm M.S. Flat with nut & bolts grouted in wall complete. [B] For 5.5 / 6.5 KG Capacity.	Nos.	10130.00	20260.00
<b>Electrical Works Total (B) :-</b>					<b>24,47,133.00</b>
<b>Civil + Electrical Work Total (A+B):-</b>					<b>40,61,214.59</b>
<b>Add 18% GST</b>					<b>7,31,018.63</b>
<b>Total</b>					<b>47,92,233.22</b>
<b>Add 1% Labour Cess</b>					<b>47,922.33</b>
<b>Grand Total</b>					<b>48,40,155.55</b>

NOTE: (1) Please note that change in commercial terms & conditions in (a) clause –A3” Instruction to Bidders” and (b) Caluse-3 and clause 6 of (section-c) General conditions of contract i.e. (Compensation for the delay) and (Action on default by contractor) (C) Clause-37 of section-D general condition of contract i.e. (Rights of Owner)

Account Officer  
GETCO, Circle Office  
Amreli

Executive Engineer (Civil)  
GETCO, Circle Office  
Amreli

Superintending Engineer (TR.)  
GETCO, Circle Office,  
Amreli

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)