WEB TENDER

Name of Work:

Tender No.: ANJ/CM-1/Tn-16/2015

TECHNICAL BID:
Tender No. : ANJ/CM-1/Tn- 16/2015


<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Name of Work</th>
<th>Estimated Cost Rs. (Excluding taxes)</th>
<th>Time Limit</th>
<th>E.M.D. Rs.</th>
<th>Tender Fee Rs.</th>
<th>Appropriate Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Erection of 66 KV LILO at 66KV Bhimasar (Tappar)S/S on D/C Panther _ Tower with Panther Conductor from existing 66 KV ‘H’ frame Anjar - Chirai Tap Sukhpar Dog conductor line (work under Const. Div. Anjar)</td>
<td>388410.84</td>
<td>01 Month</td>
<td>3885.00</td>
<td>390.00</td>
<td>E-2 and Above</td>
</tr>
</tbody>
</table>

Minimum experience of execution of work worth Rs. (in lacs) : As mentioned in Tenders
Minimum required Class of registration: As mentioned in Tenders
Last date of submission of the tender :
(Only by RPAD/Speed Post) 27/11/2015 14:00hrs
(Receipt of technical and price bids during working hrs. up to 14:00 hrs. of last date mentioned)
Date of opening of the tender(technical bid) : Within week after submission in time if possible
Validity of tender : 180 days from the Dt of Technical Bid Opening

A. Validity of tender: 180 Days from the date of opening of Technical Bid.
B. No tender shall be accepted / opened in case of receipt after due date and time of tender, irrespective of delay due to postal services or any other reasons and the GETCO shall not assume any responsibility for late receipt of tender. The tenders are to be submitted by the intending bidders in single envelop with two separate sealed and super scribed envelopes as listed below:


Envelope No.2: Price Bid.

C. Technical and pre qualification requirement bid details specification (envelope No.1) will be opened first and subject to evaluation based on the qualification criteria contained in the individual bid document.

D. Price bids (Envelope No.2) of bidders who are assessed and declared as substantially technically responsive on evaluation of the technical bid will be opened for further commercial evaluation. The Earnest Money Deposit and tender fee will be accepted by Demand Draft on any Nationalized Bank only situated at “ANJAR”, drawn in favor of “GUJARAT ENERGY TRANSMISSION CORPORATION LTD.” Tender without EMD and tender fee shall be rejected.

E. Two separate demand draft for Tender fee and EMD should be submitted with technical bid. Tender document can be down loaded from our web site www.gseb.com Interested party requested to visit our Web Site as mentioned.
F. The tenderers shall have to return the Tender duly filled without any additions/ alterations & duly signed page by page. The Tenderers are forbidden from furnishing their own printed/ typed commercial and other terms and conditions.

G. The Tenderers shall specifically note that the Tenders are invited on percentage basis only.

H. The Tenderers shall specifically note that the quantities mentioned in the Tender are likely to vary as per the actual requirement. As such, the successful tenderer shall have to execute the work at the same order rates for the changed quantities, if any, without any extra compensation whatsoever.

I. The price bid of those tenderers shall only be opened at the time and date to be informed by SE(TR) Anjar, Anjar which are found technically acceptable and satisfying the requisite qualification & parameter.

J. The Tenderer must have to submit with Tender on letter pad along with attested copies of the certificate of ....
   1. Registration class approved GETCO:
   2. Electrical contractor License
   3. Copy of Service Tax registration No.
   4. Copy of VAT registration No.
   5. Copy of Provident Fund No:
   6. Pan card No.
   7. Solvency Certificate latest issued by Scheduled Bank
   8. Partnership deed copy, if any
   9. Power of attorney if given
   10. Experience Certificate of similar work carried out as per below tender criteria. (with work completion certificate Form3A & Detailed work order copy with summary on L.head as per formats Annexures-I,II,III given below )
   11. List of tools and tackles
   12. Vehicle No:

   Note : Tender copy & All required tender documents must be signed with stamp by the bidder/contractor.

K. PRE-QUALIFICATION

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Length of transmission line on towers to be tenderized (66/132/66KV)</th>
<th>Pre-qualification</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Line length less than 5 Route KM</td>
<td>Minimum 10 Route KM line in last 3 financial year</td>
</tr>
<tr>
<td>B</td>
<td>Line length above 5 Route KM but up to 10 Route KM</td>
<td>Minimum 20 Route KM line in last 3 financial year</td>
</tr>
<tr>
<td>C</td>
<td>Line length above 10 but up to 20 Route KM</td>
<td>Minimum 40 Route KM line in last 3 financial year</td>
</tr>
<tr>
<td>D</td>
<td>Line length above 20 Route KM</td>
<td>Minimum 50 Route KM line in last 3 financial year</td>
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</tbody>
</table>

For raising /shifting of existing transmission line under ND or as a deposit work, the bidder should have executed minimum 5 (five) Nos. of similar works during last 3 financial year for same voltage class line.

L. The GETCO reserves the rights to reject any or all tenders or accept any tender without assigning any reason thereof.

EMD & Tender Fee should be paid only by DD in favour of GETCO payable at Anjahaving branch in Anjar.

Tender Fee Rs. 390.00 Paid Vide DD No. __________ Date: ______________

EMD paid Rs. 3885.00 vide DD No: ___________ Date: _________________

I have read the terms & conditions of contract and abide by the same in all respect.

SIGNATURE OF CONTRACTOR.
& SEAL OF COMPANY.

Seal & Signature of Contractor (Page by page)
### TENDER INDEX

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Particulars</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Tender Notice</td>
</tr>
<tr>
<td>2</td>
<td>TECHNICAL/ COMMERCIAL BID</td>
</tr>
<tr>
<td>3</td>
<td>DETAILS TO BE FURNISHED BY THE TENDERER.</td>
</tr>
<tr>
<td>4</td>
<td>General Conditions</td>
</tr>
<tr>
<td>5</td>
<td>Safety Bond and condition</td>
</tr>
<tr>
<td>6</td>
<td>Terms &amp; Conditions regarding Industrial Laws and Other Related Matters.</td>
</tr>
<tr>
<td>7</td>
<td>Specification for Erection of 66 kV “H” Frame/Tower Line</td>
</tr>
<tr>
<td>8</td>
<td>Price bid</td>
</tr>
</tbody>
</table>

Note: The detail drawings of tower / ‘H’ frame structure, Hardware, earthing patterns etc are available at the Construction Division office, Anjar for reference on any working day. It is binding upon to Contractor and Presumed that the same is read and gone through. (Even though if it is not attached with Tender Copy).
GUJARAT ENERGY TRANSMISSION CORPORATION LIMITED
CIRCLE OFFICE, GETCO, ANJAR.

DETAILS TO BE FURNISHED BY THE TENDERER.

Details required to be furnished by the Tenderers by writing Yes / No against each item.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Yes / No</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Whether the Tenders submitted is on percentage basis as called for</td>
<td>Yes / No</td>
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<tr>
<td>2</td>
<td>Whether rebate furnished is in percentage basis as called for</td>
<td>Yes / No</td>
</tr>
<tr>
<td>3</td>
<td>Whether the tender is submitted by Registered Post</td>
<td>Yes / No</td>
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<tr>
<td>4</td>
<td>Whether all pages of Tender Specifications are sealed and signed by the Contractor</td>
<td>Yes / No</td>
</tr>
<tr>
<td>5</td>
<td>Whether the Tenderer is registered with GETCO or Transmission Line Erection.</td>
<td>Yes / No</td>
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<td></td>
<td>b. In case of Yes in above, please furnish following details:-</td>
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<tr>
<td></td>
<td>i) Registration Letter No. &amp; Date:-</td>
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<td>ii) Class of Registration</td>
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<td>iii) Validity</td>
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<td>6</td>
<td>Whether EMD Paid</td>
<td>Yes / No</td>
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<td>In case of Yes, Please furnish details</td>
<td>Yes / No</td>
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<td>7</td>
<td>Whether following documents of Section-E-IV Part B are submitted.</td>
<td>Yes / No</td>
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<tr>
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<td>i) Human Resources Details</td>
<td>Yes / No</td>
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<td></td>
<td>ii) Availability of tools, equipments etc</td>
<td>Yes / No</td>
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<td></td>
<td>iii) Details of orders executed</td>
<td>Yes / No</td>
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<td></td>
<td>iv) Financial capability</td>
<td>Yes / No</td>
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<tr>
<td></td>
<td>v) Erection / stringing capability</td>
<td>Yes / No</td>
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<td></td>
<td>vi) Latest Income-Tax certificate</td>
<td>Yes / No</td>
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<td></td>
<td>vii) Bank Guarantee (For E.M.D., if applicable)</td>
<td>Yes / No</td>
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<td></td>
<td>viii) Company’s Article Of Association</td>
<td>Yes / No</td>
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<td></td>
<td>ix) Details Of Partners/Directors</td>
<td>Yes / No</td>
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<tr>
<td></td>
<td>x) B R / P A Authorized Person</td>
<td>Yes / No</td>
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<tr>
<td></td>
<td>xi) Power Of Attorney of Consortium Members</td>
<td>Yes / No</td>
</tr>
</tbody>
</table>

Signature of Authorized representative
Of Company/Agency

NAME :-------------------------

STATUS :------------------------

Name of tendering Company

SEAL/STAMP

Scope of Work

1. The Scope of the proposal shall be on the basis of a single Bidder’s responsibility, completely covering all the services specified under the accompanying Technical Specifications.
2. The Bidder shall complete all the schedules & annexure in the Bid Proposal Sheets, technical Data Sheets and specified elsewhere.
3. The scope of work is as per above subject & should be carried out as per standard specification and standard practice of GETCO and as per EIC.
4. The above work shall be done as per GETCO’s approved drawing/layout.
5. Necessary field quality plan of GETCO shall be implemented and necessary documentation shall also be maintained as per GETCO’s norms and instruction of EIC. If required field quality plan shall be available at field offices.
6. During the execution of subjected tender work all safety norms & safety check list must be followed. Necessary check list will be available at our field office.
7. Successful bidder has to appoint site Engineer to maintained site register & FQP as per ISO.
8. All work should be done accordingly to ISO & FQP and all require documents including Filled FQP, testing results etc. should be submitted while handing over the completed work.
9. The quantity mentioned in price bid is tentative and may vary in actual work / w. order.

Seal & Signature of Contractor (Page by page)
Note: Bidder should have to submit details as per formats given below with sign & stamp on Letter head.

<table>
<thead>
<tr>
<th>Annexure-I</th>
<th>Details of the Firm</th>
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<tbody>
<tr>
<td><strong>Name of the Firm</strong></td>
<td></td>
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<tr>
<td><strong>A</strong></td>
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<tr>
<td>1 Address of registered office</td>
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<tr>
<td>2 Contact personnel</td>
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<td>3 Designation</td>
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<tr>
<td>4 Residential Address</td>
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<td>5 Phone No.</td>
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<tr>
<td>Office</td>
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<td>Residential</td>
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<td>6 Fax No.</td>
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<td>7 Telegraphic code</td>
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<td>8 E-mail address</td>
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<td><strong>B</strong></td>
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<td>1 Address of WORK</td>
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<td>2 Contact personnel</td>
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<td>8 E-mail address</td>
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</table>
### Annexure-II

**Details of experience in last three years from the due date of tender**

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Name of s/s</th>
<th>Order reference no. &amp; Date</th>
<th>Order value</th>
<th>Nos. of line</th>
<th>Due date of completion</th>
<th>Date of completion</th>
<th>Order fully executed</th>
<th>Yes/No</th>
<th>Status if order under execution</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Gujarat Energy Transmission Corporation Ltd.</td>
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<td>Other state electricity board</td>
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### Annexure-III

**List of work completion certificate submitted with technical bid (3-A form)**

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Name of s/s</th>
<th>Name of the authority by whom the work completion certificate issued</th>
<th>Details of work</th>
<th>Reference No. &amp; Date</th>
<th>3-A form Attached Yes/No</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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</tbody>
</table>
A. GENERAL TERMS :-
1. The Gujarat Energy Transmission Corporation Limited does not bind itself to accept the lowest or any tender. The Superintendent, Engineer (TR), Anjar reserves the right to reject any or all tenders without giving any reasons whatsoever and decision of the Superintendent, Engineer (TR), Anjar will be final and unchallengeable.
2. In case of any dispute / doubt, the decision of the Superintendent, Engineer (TR), Anjar shall be unchallengeable, final and binding to the Contractor.
3. Tender offer without payment of E.M.D. required Certificate, Documents, bar chart list of Tools, Tackles, Equipments, blank tender etc. required for execution of job will be out rightly rejected. The tenderer should furnish details of past experience of such job of similar nature completed by him satisfactorily within the time limit in GETCO without this certificate offer shall be rejected out rightly.
4. The competent authority can delete any items in schedule of the tender, if he feels that the rate quoted by contractor act. That item is abnormally high completed to the estimated rates. Specification in any items mentioned in tender are subject to change without any prior notice and binding to the Contractor.

B. GENERAL TERMS FOR CONTRACTOR :-
1. The erection work should be carried out according to the specification and as per Instructions & programmed laid out by the DE / Executive Engineer-in-charge of the work. Contractor has to co-ordinate E.I.C. of planning of outage & work schedule thereof, so as to complete all the planned work in outage. Contractor has to deploy adequate manpower accordingly.
2. The contractor should appoint supervisor with sufficient qualification and experience who could supervise the execution of work throughout. He should always be present on the site as far as possible. Qualification & experience certificate of deputed supervisor to be submitted to GETCO.
3. The erection work should be commenced immediately from the date of receipt of instructions from office and should be completed within thereafter. Prior intimation in writing for starting the job will be given by GETCO for the work.
4. The contractor shall see the line route before quoting the rates.
5. The Contractor has to follow all IE rules, Insurance rules, GETCO rules labours laws, safety rules and regulations at his risk & cost. The GETCO does not take any responsibility in case of accident or injury to the workers. The safety / security of men, materials & equipments shall be sole responsibility of the contractor. Contractor will abide by and fulfill all the terms and conditions and general terms and condition of the contract for works available in the office. All other general terms and conditions as prevailing in the GETCO shall be applicable to this contract. The contractor will be governed by the GETCO’s general conditions of works contract. The Booklet will be available in the concerned office in any working days. In the event of placing order, the contractor will have to sign the booklet along with other documents and agreement. All the usual terms and conditions of the GETCO, though the same might have not been mentioned in this specification or contract booklet will applicable to this contract, and the decision of the Executive Engineer (Const), Anjar shall be binding on the contractor.
6. The tenderer shall have the experience of erection line should be as mentioned in Technical/Commercial Bid..
7. The tenderer should quote for complete erection work, testing and commissioning of line as indicated in the Schedule “B” and as per terms and conditions.
8. It will be bidder sole responsibility for erection of complete line in all respect, accordance with latest rules under Electricity Act and approved by Electrical Inspector.
9. Above terms and conditions are part and partial of tender and will be observed
10. The Contractors has to engage required strength of skilled persons for Transportation, Loading & unloading work and proper Supervisor to avoid complication & unnecessary delay to complete work timely. The Contractor will be totally responsible for labour claims arising out of the labour employed for this job.
11. The detailed drawings of equipments can be seen from this office during any working day and the equipments which are to be erected can also be seen physically at Anjar store during any working day and time.
12. Contractor has to ensure safe shifting and erection of all accessories / equipments as per standard norms.
13. The Contractor has to arrange for minor fabrication (if required) at free cost. The tender includes all minor accessories and items of work which may not have been specifically mentioned in the specification schedule etc. but are essential for completion of work. The contractor will not be eligible for any extra payment in respect of such minor accessories and items of work.
14. The contractor has to co-ordinate & co-operate fully with Engineer-in-Charge and commissioning Engineer of the supplier for erection of all equipments / structure / accessories, etc., and any other items which are not conveniently included in the specification but requires for completing the job.
15. The Contractor has to remain in contact in close days with Engineer in charge of work who in turn shall issue detailed instruction for the commencement of the work.
16. The Contractor will be solely and responsible for any accident / damage either to equipments or any human being during the time of execution of work.
17. Either you or your authorized person should contact our concern S/Dn as well Const. Div. office, Anjar daily, for the availability of equipments required for this work, failing to which this work order shall be terminated without giving any notice.
18. The Contractor will have to give indemnity bond to GETCO against any possible claim of compensation for damage to contractor’s equipments or staff or any of third party during the execution of work.
19. The Contractor will have to complete entire job as per directive and instruction of Engineer in charge. If he fails to do so entire work will be carried out at Contractor’s risk and cost.
20. The contractor has the experience of survey work and produces the list of survey instrument and bio-data of Supervisor / Surveyor / Engineer / Technician to be engaged for the job.
21. If the work is required to be carried out during specified outage then the contractor has to deploy adequate man power, material, tools etc. well advanced and has to complete the entire work during this specific outage period only, failing to which GETCO shall be at liberally to deduct the amount of revenue loss due to prolong outage. Contractor has to co-ordinate E.I.C. of planning of outage & work schedule thereof, so as to complete all the planned work in outage.
22. If required by GETCO you shall have to provide free to & for traveling facility to our field Engineer or Surveyor for the work.
23. The Contractor shall not refuse to execute the work order at any time and it will be his sole responsibility to execute and complete this work as per the instruction of Engineer - in - charge.

Seal & Signature of Contractor (Page by page)
24. The tender shall invariably furnish a monthly average erection capacity (in km. and rating) along with list of available machinery, tools and tackles etc. for erection of line.
25. The tenderer shall not submit offer for erection or foundation work.
26. No subcontractor, Power of Attorney shall be allowed.
27. Any excess work done beyond specification and drawing shall be at Contractor’s risk and cost.
28. The Contractor has to deploy minimum 8 to 10 skill labours / fitters at site daily failing to which GETCO shall have a right to deduct Rs. 1,000/- per day from the bill.
29. During the stringing work of line if any EHT / 11KV / L.T. line comes on the way the Contractor has to dismantle, restringing, kept on original position etc. work to be carried out. No any charges will be paid extra for this work. Further work to be carried out in co-ordination with concern DISCOM personnel for proper identification of feeder / LT line as well as you have to strictly observed all the safety rules of GETCO.
30. The bidder shall specifically note that GETCO will not pay any extra amount to wards any type of claim except for the description indicated in Schedule “B”. The party has to carry out all other / additional required activities / work as directed by Engineer in charge which is not mentioned in Schedule but required to be completed as per the site condition and for this work no extra Payment shall be made by GETCO.
31. In addition to the general of the construction particular attention shall be paid to the final finish and every effort shall be made to have the entire work contented wish standard of workmanship by the Contractor.
32. No any idling / gang mobilization charge will be paid by GETCO in any circumstances.
33. No part rate or reduces rate shall be allowed in final bill.
34. **The interpretation of specification doubts etc:** - In case of any doubts about what is mentioned in specification or schedule or elsewhere, the tenderer should get all doubts cleared from the Department in writing and in advance of filling in the tender. In case of difference of opinion about interpretation of specification etc. the decision of **SE (Const)/SE TR Anjar Anjar** will be final and shall be binding to the contractor to the tenderer.
35. Power supply should be arranged by contractor at his own cost. For that temporary connection to be obtain by contractor from PGVCL for the said work.

C. **SAFETY:**
1. The Compliances of all Central / State Govt., rules, safety and insurance rules etc. and that of local body, is a must condition for the agency.
2. Contractor shall have to execute the work as per GETCO safety policy. Safety Booklet & safety policy shall be collected from concern EIC before work commencement. (Refer ISO document).
3. You shall ensure that at the end of each sub-activity, the surplus material is immediately removed from the work site to avoid loss and injury to the public.
4. **Safety Clause:**
   a. In case any safety related fatal Elect. / Mech. accident occurred to any employee of agency or
   b. outsider due to negligence or non-compliance of GETCO safety norms then in addition to the compensation and liability as per statutory requirement, contractor / agency shall be penalized as under:

<table>
<thead>
<tr>
<th>Amount of Contract in Rs.</th>
<th>Penalty amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 1 Lac</td>
<td>Rs.5000/-</td>
</tr>
<tr>
<td>Above 1 Lac to 10 Lacs</td>
<td>Rs.25000/-</td>
</tr>
<tr>
<td>10 to 100 Lacs</td>
<td>Rs.100,000/-</td>
</tr>
<tr>
<td>&gt; 100 Lacs</td>
<td>1.0 %</td>
</tr>
</tbody>
</table>
   
   c. **Reporting:**
      1. The contractor shall inform concerned Ex. Engineer Const/TR in writing within 24 hours of fatal/Non-fatal accident occurred to human being.
      2. The GETCO investigating officer findings in to accident shall be final and binding to the contractor /Agency.
   
   d. **Safety Requirement:**
      1. **Kick off Meeting exclusively for safety shall be done in each contract in presence of contractor’s site in charge and supervisor. Safety document shall be handed over and vital safety norms and key points of safety related to project shall be explained and recorded for commitment by erection contractor.**
      2. Such records are mandatory for clearing first erection bill.
      3. **During site visit by GETCO official of Executive Engineer and above rank, the following checks during execution of work shall be covered.**
      
      3.1 Safety equipments available and utilize.
         (a) Helmet
         (b) Safety belt.
         (c) Safety shoes.
         (d) Live line Voltage detector
      
      3.2 Safety procedure adopted.
         (a) Permit to work
         (b) Earthing at the place of work.
         (c) Adequate supervision.
      
      3.3 **T & P physical Check. (Healthiness and Quality)**
         (a) P.P. rope.
         (b) Wire rope and sling.
         (c) Earthing rod
      
      e. If above-mentioned safety requirements found violated in any of the above three conditions shall attract penalty of Rs.1000/-per occasion. (Max.Rs.3000/-for violation of three conditions)
      
      f. During subsequent visit, if violation is found, then double penalty shall be deducted from the bill of the Contractor/Agency.

F. **FIELD QUALITY PLAN:** - Contractor shall have to execute the work as per GETCO FIELD QUALITY PLAN & APPROVED DRAWING being the mandatory requirement of ISO 9001-2000.
G. SECURITY DEPOSIT:-
1. The successful tenderer will have to pay the Security Deposit of 5% of the order value. On placing the order 2.5% will have to pay in cash or demand draft in favour of GETCO LTD. within seven days from the date of receipt of intimation given by the office and the remaining 2.5% will be recovered from the first two R.A. Bills. An higher percentage of security deposit may be fixed at the discretion of the Executive Engineer / Supdt. Engineer.
2. The tenderer will abide by and fulfill all the terms & provisions of the “Tender and Contract” for works as applicable and in case of any default there to the GETCO shall forfeit the S.D. or any other action as may be decided by Ex. Engineer (Const), Anjar.
3. Security Deposit will be refunded after / completion of one year or guaranteed period over whichever is later.

H. TIME LIMIT:-
1. Time limit allowed for completion the work is 01 Month Calender Month from the date of the commencement of the work issued by concern GETCO office.
2. Time limit extension will be given if line material is not supplied in time and farmer's objection not cleared in time subject to merits / demerits & approval of competent authority as per DOP but if material given in time and farmer's objection cleared in time, then no time limit extension will be grant and penalty will be imposed as per rules. Time limit application with justification & supporting documents shall be produced.
3. The Time Limit for the work may be reduced and contractor should make all this efforts to complete the work within stipulated time limit as may be given by the Engineer in charge depending upon emergency of work GETCO reserves the right to reduce the time limit without giving any notice.
4. The tender shall remain open for acceptance at least for a period of six months from date of tenders.

I. SIGNING AGREEMENT:- The Contractor will have to sign an agreement as per GETCO’s rules in the prescribed form of the GETCO. The cost Rs. 100/- of the Stamp Paper will have to be borne by the Contractor.

J. PENALTY FOR DELAY:
1. If it is found that the work is unsatisfactory or not progressing as per the program / BARCHART / Target period, any action taken by the GETCO, as may be deemed fit, to see that work is completed as required by the GETCO, would be at the risk and cost of the contractor. If the work is not completed within time limit penalty of 1/2 % of the delayed work per week will be levied, Maximum 10% of order value unless time quotation as granted for valid reasons by the competent authority.
2. Any delay causing extension of outages shall be contractor’s responsibility and appropriate amount (in term of Rupees) as decided by Ex. Engineer (Const), Anjar shall be recovered from Contractor’s bill as a penalty.

K. GUARANTEE: - It is the responsibility of the contractor to handover the complete work free of all defects. If within a period of one year from the date of handing over the work it is noticed that any defects occurs due to bad workmanship. It is the duty of the contractor to rectify / replace the same at his own cost. If within seven days from the date of receipt of such notice, the contractor does not take up the work, same will be carried out at his risk and cost.

L. WORKING DAYS: In case, it is not possible for the contractor to continue, the work either due to heavy rain or other reasonable causes, such facts should be immediate reasons to the notice of the Executive Engineer in writing. If the reasons for stopping the work are genuine, the Engineer may ask the contractor in writing to stop work as for (for such stoppage) are overcome and the Engineer will ask the Contractor to start the work again in written, the period of such stoppage will not be considered as a part of working month moreover the contractor cannot claim compensation for such work. Contractor will not allow to work after working hours except in special case, if any.

M. TERMS OF PAYMENT:
1. Normally, one R.A. Bills will be paid every month, however, looking to the progress of the work it will be reviewed mutually and 90% of the cost of work done will be paid to the Contractor on his presentation of R.A. Bill giving the material account thereof. Remaining 10% Payment will be made after the entire work is completed satisfactorily in all respect. The payment will be made through Account Payee Cheque. The Bill should be submitted to our Concern Deputy Engineer (Const.), S/De-II, Anjar within about fortnight from the date of completion of the work by the Contractor.
2. The GETCO will be entitled to deduct directly from the bills to be paid to the contractor any sum or sums payable to you and which sum/sums the GETCO is required to pay as principle employers on account of your default in respect of all liabilities referred to in above clauses.
3. In case of any farmer's objection / ROW, contractor has to mobilize his all efforts to clear the objection in consultation with GETCO authority. No extra Charge will be paid for such effort.
4. The contractor shall co-operative with the GETCO in recording measurement etc. as expeditiously as possible and he shall fulfill all the requirement which are necessary to finalize the accounts on the basis of its records and pay him such amounts as if found due to him, together with the amount of security deposit if any remaining payable to him after deduction there from the amount due by him to the GETCO. The GETCO shall not entertain further claim from thereafter.
5. THE GETCO shall deduct the Income - Tax & Taxes as per prevailing rules from each and every bill.
6. Service Tax & Welfare Cess will be reimbursed to contractor after producing proof of such payment made to appropriate authority.

N. PRESENTATION OF BILLS:
1. All the bills for erection, separately for each line should be presented with the following information on each bill.
   (i) 90% bills for erection should be serially numbered giving the work done under each item up to period of billing, work done for which the claim is made in the bill and up to date work so for done. Items in erection bill should correspond to items mentioned in schedule of A/T.
   (ii) Balance payment bills should be prepared at the end of the job for each line section under the jurisdiction of the concerned Deputy Engineer which should give the complete information of work carried out, total payment due, actual payment received up to date and the balance amount claimed. It should also accompany a statement of reconciled material account tower wise and line wise.
2. 10% retention money will be deducted from each R.A. bill.
3. No higher rate or revised rate will be applicable for the work, if work is held-up / closed due to whatever so reasons.
4. R.A. Bill shall be paid if GETCO satisfy with the output of works otherwise only final bill shall be paid.
5. The cost of damages, if any will be recovered from the Contractor’s bill. The assessment of which will be done by field Engineer at his sole discretion and his decision shall be binding to the contractor and shall be considered as final and unchallengeable.
6. The contractor shall co-operate with the GETCO in recording measurement etc. as expeditiously as possible and he shall fulfill all the requirements which are necessary to finalize the accounts on the basis of its records and pay him such amount as if
The contractor shall have to maintain accurate day to day and item wise account of use of materials issued by GETCO, even if such a less distribution of deterioration has occurred under any circumstances whatsoever beyond his control as if the materials, stores or articles so supplied were his property.

N. AVAILABILITY OF MATERIALS AND IDLE LABOUR CHARGE: Materials are readily available and arrangement made to procure the rest. However, the Contractor should be carrying out the work as and when the materials are received. No idle labour charges will be bourned by the GETCO in case such occasion of idle labour arises, due to want of any materials. However, this idle period will be counted for the period of assessing the time limit for completion of work as mentioned in the work order. Contractor has to collect the material as and when available and should be keeping in his safe custody.

O. PROGRESS OF WORK & REPORTING:

1. Contractor has to submit their working schedule along with tender to complete the line in view of time limit given in tender Bar chart is also to be submitted.

2. PROGRESS REPORT: Fortnightly progress reports in DUPLICATE shall be regularly submitted to the Executive Engineer (Const.) Anjar and the concern Engineer-in-charge with a copy to SE,(TR)Anjar. Bar chart duly signed by contractor shall be submitted at the time of commencement of work.

P. MATERIAL, DELIARY & HANDLING:

1. All material / equipment required for this work as per schedule shall be delivered at any store center of Const. Dn. Anjar jurisdiction & contractor has to take delivery from these stores at his own cost only.

2. The contractor shall be responsible for breakages, losses & thefts of material during transit or erection after the materials are issued from stores will, the completed work is taken over by the GETCO.

3. The contractor will be responsible for loss, distribution or deterioration of the materials, stores or articles supplied to him by the GETCO, even if such a less distribution of deterioration has occurred under any circumstances whatsoever beyond his control as if the materials, stores or articles so supplied were his property.

4. STORAGE-CUM-INSURANCE(MCE):
The contractor shall take suitable storage-cum-erection insurance cover at his cost to the extent of 100% cost of s/s or line materials, which are required to complete the s/s or line. Contractor shall have to take comprehensive Marine cum Erection (MCE) insurance policy against any loss, damage, theft, pilferage, fire etc. for the complete period of storage, erection and commissioning up to the time of taking over of the transmission line or S/S by the GETCO. The contractor shall deal directly and pursue the claim with the insurance company and shall be responsible in regard to maintenance of all insurance coverage as well as for settlement of claim. The proof of insurance policy taken by the successful contractor shall be furnished/submitted to Engineer-In-Charge of GETCO.

No material shall be issued to bidder/erection agency in absence of such insurance policy. The contractor will be covered for lifting of material from store to final handling over to GETCO. Further in absence of the above insurance policy, the contractor will not be eligible for any extra payment in respect of minor accessories and items of work.

R. A. Bill payment will be with held until contractor shall have to take suitable storage-cum-erection insurance cover (comprehensive Marine cum Erection (MCE) insurance policy i.e. of Rs. 1328320.32 at his cost to the extent of 100% cost of s/s or line materials, which are required to complete the s/s or line as per tender conditions above.

5. RETURN OF EMPTY CONDUCTOR DRUMS: The empty wooden drum of earth wire and conductor as well as insulator crates will not be required to be returned back by the contractor to the GETCO stores.

6. ACCOUNTING OF GETCO MATERIALS: - The contractor will be fully answerable and responsible for all the material issued to him for the work by the GETCO for any theft, loss of pilferage and shall have to furnish account for the same after completion of the work and before preparation of final bill, If the loss referred to above is not made good before final bill as per rules of the GETCO. Contractor has to maintain Site Register Material Account Register regularly.

7. The structure & equipment required for line erection work shall be delivered at central store by GETCO at free of cost and it must be shifted to site without damaging the equipment must be kept in position as per instruction of In charge Engineer and Manufacturer's manual. The M.S. Girder required for line erection work will be provided at one end of the line by GETCO. The trip of Girder should be of minimum 20 Girders.

8. The Contract has to shift the material at site with packing case and it should open carefully without damaging the equipment.

9. The packing case must be returned to the store in good condition and stacked as directed by Engineer-in-charge.

10. THE GUJARAT ENERGY TRANSMISSION CORPORATION LTD. shall supply Steel Section required, for earth mesh / structure / G.I. / M.S. strip for earthing the equipments structures with nut and bolts, power cable, control cable, L.T. cable, Clamps connectors and C.I. Plate for small pit etc. at free of cost subject to condition mentioned in schedule-B.

11. Wooden charcoal, salt, black cotton soil, G.I. pipe, G.I. strip, G.I. wire, nut & bolts lugs etc. required for earthing the equipments structures with nut and bolts, power cable, control cable, L.T. cable, Clamps connectors and C.I. Plate for small pit etc. at free of cost subject to condition mentioned in schedule-B.

12. Contractor will fully and solely responsible for any shortage, damage, leakages to the equipments or any it’s accessories that may occur during transportation dragging, draining of oil, erection work etc.

In case of non-availability of some items / materials you will have to collect the same from other nearby store center for which you shall be paid as per GETCO’s rules and S.O.R. rate.

14. After completion of the work, all the surplus materials issued by the GETCO shall be returned by you to the respective center of the GETCO as per instruction of Engineer in charge at your cost.

15. For shortages of any materials issued by the GETCO for the work, recovery shall be made from you on the basis or prices of the materials (prevailing the date of settlement of materials Account) plus 15% supervision charges.

16. All the materials issued by GETCO shall be transported to the work site on same day and to be preserved in safe custody failing to which GETCO shall initiate Police action, similarly as per instruction of Engineer-in-charge, you have to credit the material at GETCO store without any loss of time failing to which GETCO shall initiate Police action.

17. Accounts of Materials issued: - The contractor shall have to maintain accurate day to day and item wise account of use of issued materials which shall be got checked from time to time by the representative of the GETCO. The contractor will be responsible for custody and preserving the issued materials till the work is handover by the Contractor after completion.

18. The contractor has to maintain site Register, covering all the daily details of Material receipt & utilization, progress of work etc. This register shall be checked and signed by Engineer in charge, Executive Engineer (Const) & SE (TR), Anjar during the site visit. Any bill without site register shall not be passed. The GETCO shall not entertain further claim from thereafter.

Q. TOOLS:

1. No tools, tackles, manpower, crane facilities etc. will be provided by the GETCO.

Seal & Signature of Contractor (Page by page)
2. No special tools and tackles such as compression joint machine, jointing dies, come along clamps, dynamic meter etc. shall be given by GETCO.

3. Erection tools required during construction of lines shall be arranged by the contractor at his own cost. Adjustable stub templates will however be supplied by the GETCO which shall be returned by the contractor in good condition on completion of the works.

4. Contractor will have to make his own arrangement for all tools, tackles, wire ropes etc. for the work.

5. The contractor has to submit the list of tools, tackles, equipment with him along with his tender offer. The tender without this list and other required documents (as mentioned above herein the tender) should be rejected out rightly.

R. ELECTRICITY RULES: All works shall be carried out in accordance with the revised and latest providing under Indian Electricity Act and Rules made the rounder.

S. WASTAGE: You shall make every effort to minimize the breakage/Looses and wastage of line materials, etc. supplied “Free of cost” by the GETCO for erection of line.

The ceiling for wastages permitted is as under:-

i) Conductor and Earth wire: For jumpering/sag/sister wire: 0.5% : For credit length up to 30 Mtr.: 0.5%

ii) Insulators: : 0.25%

iii) Bolts & Nuts : NIL (No extra Bolts/Nuts will be supplied).

v) Hardware & Accessories: : NIL.

T. INSPECTION BY GETCO REPRESENTATIVES:

The Engineer-In-Charge, higher authority of GETCO or his representatives will be free to visit the contractor’s work, their stores site and erection sites and also verify the GETCO’s materials in the custody of the contractor as and when required.

U. FORCE MAJEURE: -

1. Force majored is defined as “Any cause which is beyond control of contractor or the GETCO as the case may be, natural phenomena like floods, draught, - earthquake, epidemics etc. acts of any Government Authorize domestic or foreign including but not limited to war, declare or undeclar, priorities quarantine, embargoes Licensing control or production or distribution restrictions accidents like Fire, Explosions, Break-Downs etc.”.

2. All legal complication or disputes are subject to Anjar jurisdiction only.

3. As the case may be, which they could not foresee or with a reasonable amount of diligence could not have foreseen and which substantially affects the performance of the contract such as:

4. Natural phenomena including but not limited to floods, droughts, earthquakes and epidemics;

5. Acts of any Government, domestic or foreign including but not limited to war, declared or undeclar, priorities, guarantees and embargoes.

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

7. The contractor or the owner shall not be liable for delays in performing his obligations resulting from any force majeure cause as referred to and/or defined above.

V. QUANTITY OF WORK: The quantities of various items of erection indicated in Schedule-B are tentative, final quantities shall be determined after completion of the details route surveys. The contractor has to carry out the work according to quantities as determined at site for which the rates quoted in the Tender shall be valid. The department reserves the rights for revising or omitting any of the quantities. The quantities actually executed by the contractor will be calculated at the rate given in the contract schedule of the rates. The payment shall be made only on actual work executed or order quantity whichever is less.

W. TAKING DELIVERY AND INSURANCE:

1. As regard damage the materials, equipment and worker of the contractor, he himself will be responsible. If there is any compensation to be paid in respect of “WORKMAN” compensation act of any other statutory provisions, the same will have to be paid by the contractor direct. If he thinks fit he may take necessary insurance cover, at his cost.

2. The contractor has to keep “H” frame materials & line materials in safe custody and transport to the respective sites and will be fully responsible for any damage to or loss of all materials at any stage during transportation or erection or taking over of the line by GETCO.

3. The Contractor has to open site store near by the route of the line and ensure for safe custody of all the stored materials at his own cost.

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

5. EQUIPMENT INSURANCE: - Contractor shall have to take comprehensive insurance policy against any loss, damage, theft, pilferage, fire etc. to the material for the complete period of erection and commissioning up to the time of taking over of the Sub Station / transmission line by the Board. The contractor shall deal directly and pursue the claim with the insurance company and shall be responsible in regard to maintenance of all insurance coverage as well as for settlement of claim. The proof of insurance policy taken by the successful contractor shall be furnished to Engineer-In-Charge. In absence of the above insurance policy, R. A. Bill payment will be with held.

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

X. DEPARTURE FROM SPECIFICATION AND DRAWINGS: Should the tenderer wish to depart from the specification in any respect, they should draw attention to such departure giving his reasons thereof and should get approved the same before doing any further work, unless this is done this specification shall held good. The working drawings are attached with the tenders. However in case of any clarification the decision of Engineer in charge will be final & binding to the Contractor.

Y. TESTING AND COMMISSIONING:

Seal & Signature of Contractor (Page by page)
1. The contractor after completion of erection work will ensure that all works connected with line have been completed correctly as per Indian Electricity Rule and procedure, any extra cost involved due to incompleteness of work or bad workmanship found out subsequently shall be set right forth with by the contractor at his cost. The clearances at major crossing & earthing resistance value of H-frame / tower footing to be taken & data to be handed over to EIC.

2. After the erection is completed in all respects, the line should be thoroughly patrolled and checked for continuity and clearances. The line should be meggered to check its insulating level. Afterwards, a line clear should be given to the Engineer-in-charge that the line is clear and free of men and materials and is fit to be charged. If on charging the line is found not to hold, the contractor should arrange to patrol the line and find out the causes for the tripping and rectify the defects.

Z. TECHNICAL PARTICULARS: The general technical details of the type of towers to be erected conductors and earth wire to be strung and relevant loading particulars for the same are given in section of the specification.

AA. WELFARE CESS:

The welfare cess, 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 factory inspector is authorized at present as a registering authority.
- The welfare cess @ 1% is considered in the price schedule 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 contractor 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 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 RA bills, 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 RA bills, the contractor has to submit the documentary evidence of payment of welfare cess of previous RA bill.
- Before release of payment of final bill, the contractor has to submit the documentary evidence of payment of welfare cess of previous RA bill as well as of this final bill.
- If the RA 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 will be reimbursed to the contractor on submission of copy of documentary evidence of payment by observing due formalities.

SIGNATURE OF CONTRACTOR
WITH SEAL/STAMP

SAFETY CUM INDEMNITY BOND
(On Non-judicial Stamp paper of value not less than Rs. 100.00)

We 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 demurr to the extent aforesaid.

Whereas the CONTRACTOR has/have been awarded to execute the job/work under order no. _______ dated ________ for ________ issued by the GETCO after having observing necessary formalities, the details of which is described in the order no. _______ dated ________ and whereas the said job/work is likely to be done in places covered under Employees’ State Insurance Act, 1948 (ESI)

Seal & Signature of Contractor (Page by page)
and /or the Workmen Compensation Act, 1923 and /or other laws relating to the Labour Management and Welfare Act. (Respective Amendments)

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

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

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

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

<table>
<thead>
<tr>
<th>Sr. No</th>
<th>Amount of Contract in Rs.</th>
<th>Penalty amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Up to _1 Lac</td>
<td>Rs.5000/-</td>
</tr>
<tr>
<td>2</td>
<td>Above 1 Lac to _ 10 Lacs</td>
<td>Rs.40000/-</td>
</tr>
<tr>
<td>3</td>
<td>10 to __ 100 Lacs</td>
<td>Rs.100,000/-</td>
</tr>
<tr>
<td>4</td>
<td>100 Lacs</td>
<td>1.0 % of contract value</td>
</tr>
</tbody>
</table>

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

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

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

(Signature with seal of The CONTRACTOR)

In the presence of:

1. 
2. 

ANNEXURE-A

OUR ENDEAVOUR - 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.

<table>
<thead>
<tr>
<th>Indoor safety precaution</th>
<th>Outdoor safety precaution</th>
</tr>
</thead>
<tbody>
<tr>
<td>The method of work required T&amp;P and manpower should be discussed between GETCO supervisor, contractor’s supervisor and gang leaders.</td>
<td>The method of work required T&amp;P and manpower should be discussed between GETCO supervisor, contractor’s supervisor and gang leaders.</td>
</tr>
<tr>
<td>Prior to execution of work a joint survey must be conducted by GETCO supervisor and contractor’s supervisor for risk</td>
<td>Prior to execution of work a joint survey must be conducted by GETCO supervisor, contractor’s supervisor and DISCOM line</td>
</tr>
</tbody>
</table>

Office: Transmission Circle, Near S.T. Station, ANJAR - KUTCH – 370 110. Telephone No.(02836) 242656 Fax No.(02836) 241588

Web site: getcogujarat.com Email: anijartsetr@yahoo.co.in

Seal & Signature of Contractor (Page by page)
<table>
<thead>
<tr>
<th>Following safety guidelines are mandatory for all contractors operating in GETCO premises for Electrical, non-electrical &amp; civil works.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. The contractors must provide advance planning of work to concerned in-charge of substation in writing.</td>
</tr>
<tr>
<td>2. Before starting any work whether switch yard, “permit to allow to work” must be taken from control room in-charge.</td>
</tr>
<tr>
<td>3. Utilizing Electrical / non-electrical equipments, safety rules must be implemented.</td>
</tr>
<tr>
<td>4. If the work is to be carried out on Sunday or public holiday, the necessary permission must be taken in advance, requesting in writing.</td>
</tr>
<tr>
<td>5. Unwanted person including children of labours will not be allowed at working site/ in the switchyard and in the prohibited area.</td>
</tr>
<tr>
<td>6. Any electrical work or electrical connections to equipment for any other work must be carried out by certified electrician/wiremen with adequate size of wire through MCB as per I.E. Rule.</td>
</tr>
<tr>
<td>- Live penal area / bus bar must be isolated and sealed / bifurcated with red colour tape for visible warning.</td>
</tr>
<tr>
<td>- Display Board must hang on LCP panel.</td>
</tr>
<tr>
<td>- 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.</td>
</tr>
</tbody>
</table>

| The local earthing must be done at the place of work before execution of any work. |
| 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. |

<table>
<thead>
<tr>
<th>Transmission line activities.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) Used of Voltage detector to ensure outage.</td>
</tr>
<tr>
<td>2) Earthing at three point, local, left &amp; right side of bus bar / string bus.</td>
</tr>
<tr>
<td>3) Match line colour code with colour of wrist band.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Local earthing of electrical equipments like filter M/c, welding machine, testing kits etc. is must.</th>
</tr>
</thead>
</table>
| Crane shall only be used for material.
1. **Wages to be paid at time of payment etc. by the contractor.**
   a. The contractor shall pay minimum prevailing rates per day or as may be specified hereafter or rates fixed under the minimum wages Act. Whichever is higher. The wages or very contract labour employed by him under this contact shall be paid by him before the expiry of 7th 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 the 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 GETCO. Any default will result in cancellation of contract forthwith or also the contractor shall be paid punishable to the extent of Rs. 100/- fine per each day.

   b. The contractor shall give his telephone number and address to the GETCO so that in case of labour troubles etc. the contractor can be contacted. The contractor shall arrange to have his office outside the factory premises and the contractor shall keep himself present throughout the working hours.

2. **Labour Laws:-**
   a. Person 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 p.m. to 6 a.m.
   c. Contractor shall maintain a valid labor 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.

3. **Provident fund & Family pension Scheme:-**
   a. Payment of contribution by way of employer’s contribution towards provident fund, family pension scheme, Deposit linked insurance scheme, Administrative charge etc. at the rates make applicable from time to time by Government of Gujarat/Government of India or other statutory authority.
   b. Payment of deposit in respect of each contract labour at the rate of Rs. 30/- with the office of Commissioner of Labour as per the Contract Labour (Regulation and Abolition) Act.
   c. License Fees as prescribed under the Contract (Regulation and Abolition) Act and rules framed there under depending upon the number of workmen employed by the Contractor.
   d. Paid Leave facility and wages as per the provision of the Factory Act at the rate of one day for every 20 days of working.
   e. Identity Cards as prescribed under the Factories Act with Photo affixed thereto, the same for identification.
   f. 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 or disputes under the Industrial Disputes Act. 1947 or any other labour laws.
   g. Payment of Compensation in case of accidental injury.
   h. Provision of creche if the female labours employed are more than 30 numbers.
   i. Maternity Leave as per the Maternity Benefit Act. The above are some of the major liabilities of the Contractor in addition of 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.

4. **Deposit Linked Insurance Scheme:-**
   a. The contractor shall submit along with his bill (month wise) a statement regarding deduction against employees provident fund and family pension scheme in respective of each concerned employee, provident fund and family pension scheme at the rate at admissible (or at the rate made applicable by the Government from time to time) of the wages. The contractor’s contribution and his workers contribution towards provident fund and family pension scheme shall be deposited by the contractor with Regional Provident Fund Commissioner, Ahmedabad.

5. **Contractor to indemnify the GETCO:-**
   a. The contractor shall indemnify the GETCO and every member officer and employees of the GETCO also, engineering in charge and his staff against all actions, proceeding, claims demands, costs and expenses which may be made against the GETCO or Government for or in respective of former of his obligation under the contract documents. The GETCO shall not liable for or in respective of or in consequence of any accident or injury to any workman or other person in the employment of the contractor or his sub-contractor and the contractor shall indemnify and keep indemnified the GETCO against all such damage and compensation and against all claims, demands, proceedings costs, charges and expenses whatever in respective thereof in relation thereto.
6. **Workmen's compensation and employer's liability insurance:**
   Insurance shall be affected for the entire contractor's employee engaged in the performance of this contract. If any of the work is subject the contractor shall require the sub-contractor to provide workmen's compensation and employer's liability insurance for the latter's employees unless such employees are covered under the contractor's insurance.

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

8. The GETCO will be entitled to deduct directly from the bills, to be paid to the contractor any sum or payable by you and which sum/sums the GETCO is required to pay as principal employer on account of your default in respect of all liabilities referred to in above clauses.

9. GETCO does not accept any responsibility as factory Act, Minimum wages Act, Workmen's Compensation Act, Insurance Rules etc. or any other act, rules or regulations that have to be observed by the contractor for carrying out the work.

Subject to the availability of raw materials, the contract is to be completed within stipulated time period from the commencement date as mentioned in the work order.

---

**SIGNATURE OF CONTRACTOR**
**WITH SEAL / STAMP.**

---

**SPECIFICATION FOR ERECTION FOR 66 kV “H” FRAME/TOWER STRUCTURES**

**A. TOWER STRUCTURES :-**

1. **COMPENSATION AGAINST DAMAGED CROP ETC :-**
   1.1 The GETCO will secure all rights or way leaves for the work. The permission for falling trees which would obstruct the erection of line or for cutting the trees in order to obtain requisite clearance from the ground to conductors shall be obtain by the GETCO. Trees falling within strips of 6.0 mtr. i.e. 3.0 mtr. on either side of the wire shall have to be cut and cleared by the contractors at his own cost. Clearance where ever necessary shall be arrange by the GETCO.

   1.2 The GETCO will arrange to pay compensation to owners for damage to trees, fences, crops and any other properties required for erection work except the damages caused due to the negligence of the contractor or his staff. The compensation for the damage due to contractor's negligence shall have to be paid by the contractor.

2. **GENERAL TECHNICAL PARTICULARS FOR ERECTION OF 66 kV D/C TOWER LINES.**
   2.1 **SCOPE :** The erection work covered under these sections consists mainly of
      i. Check survey:- GETCO will provide the details of the line alignment as per survey carried out for taking reference to proceed further for the work of check survey.
      ii. Taking delivery of tower materials/line materials from the GETCO's store centre situated at any store centre under GETCO & storing the same in safe custody.
      iii. Distribution of all materials to erection site.
      iv. Stub setting.
      v. Tower Erection.
      vi. Stringing.

   2.1.1 The contractor shall be fully responsible for completing all the above works and till them are taken over by the GETCO.

   2.1.2 The methods of erection are dealt within details, but are left to the contractor who shall exercise his own judgment with regards to actual handling of materials and in deciding upon the best methods to be adopted in the erection of the towers, conductors and other materials.

2.2 **WAY LEAVE/TREE CUTTING AND OTHER CONSTRUCTION :**
   2.2.1 The GETCO will arrange for Right off way and for tree cutting clearance, the contractor will instruct his laborers & staff to use minimum area while doing the work where there are standing crops. No person of the contractor should pick in items from standing crops of fruits. The contractor should take all possible steps to avoid or minimize damage to standing crops etc.

   2.2.2 The contractor should immediately notify and obstruction or hindrance from local villages or the local authorities in the prosecution of the work to the concerned Engineer-in-charge, but should not deal directly in the matter. The Engineer-in-charge will arrange to remove the obstacles as soon as possible.

2.3 **ACCESS TO LOCATIONS :**
   2.3.1 It will be the Bidders sole responsibility to take the materials up to the location. Any path way, temporary road, temporary bridge required will have to be provided by the Bidder at his own cost. If, for any reasons the above is not feasible, the Bidder at his own cost shall have to arrange transportation by head loads.

   2.3.2 The Bidder will be deemed to be very well familiar with the route of the transmission line before submitting an offer. Notwithstanding the difficulties of terrain, location approaches, way leave and other obstructions the price quoted for all the items of erection shall not undergo any change at any stage or granted by the GETCO for any special rates/consideration.

2.3.3 **FIXING OF LOCATIONS :-** The poles, guys and earthing position will be located by the department before commencement of erection work. The Contractor will be shown the type of support to be erected at each pole position on joint detailed survey. The route map attached is a proposed and likely to change a little at the time of actual peg marking. The GETCO will arrange surveyor for survey only if not mentioned in schedule-B. Other labours required are to be provided by the contractor.
3.1.2 On completion of the work all surplus tower and line materials including the excess Bolts & Nuts and stub materials shall be

5. Classification of Soil.

3.1.3 The contractor shall submit the complete material account immediately after the works is completed and in case not late than

2. RATES :- Before tendering rates for the works the contractor must examine the route of the line, the condition of terrain of land and the strata of land. Also rates quoted by him for each item the rate should be reasonable and proportions to tender. In case the tender has quoted very exaggerated work the tender will be rejected. Also the contractor should read the term and conditions and specifications for this work very carefully and include the cost of materials to be supplied by him in the unit rate of the corresponding item of work.

3. MATERIALS :

3.1 DISTRIBUTION OF MATERIALS :

3.1.1 The contractor has to take delivery of tower materials/lines from the GETCO's store Anywhere under GETCO and transport it to the respective tower erection sites and will be responsible for any damages to or loss of all materials at any stage during the Transportation or erection. The materials that will be issued by the GETCO will be in ' AS IS WHERE IS' conditions at the store

3.1.2 centre of the GETCO in the area during working hours days. All the materials received by the contractor shall be got insured for storages and erection risk by the contractor at his own cost. An indemnity Bond/Bonds have to be issued by the contractor for the materials take over by him for erection.

3.1.2 On completion of the work all surplus tower and line materials including the excess Bolts & Nuts and stub materials shall be returned by the contractor to the nearest respective stores of the GETCO as per the instructions of the Engineer-in-charge of the works at no extra cost to the GETCO.

3.1.3 The contractor shall submit the complete material account immediately after the works is completed and in case not late than one month of completion and handing over of the line.

3.2 SUPPLY OF MATERIALS BY GETCO:- The P, Q, R & S type tower structures with all fittings.

1. Guy sets with clamps.
2. Guy wire 7/4.00mm size.
3. Conductors, Disc Insulators, H/W for ACSR Dog or Panther as the case may be.
4. All jointing materials and accessories for ‘DOG’ and ‘PANTHER’ conductor.
5. Any other items required to complete the work. The above item No. (1) structures, Guy Rods and all other materials supplied from any store center of GETCO.

3.3 MATERIALS TO BE SUPPLIED BY THE CONTRACTOR:-

2. G.I. Clamps with bolts, nuts and washers for fixing number plates and Danger board, anti-climbing devices complete.
3. Coke, Salt and G.I. wire and all earthing requirements.
4. Earthing pipe 32 mm dia, 2 mtr. long G.I. pipe of approved make and fabricated as per specificatation.
5. Any other materials which shall be required to complete the work satisfactorily in all respects and not specified, in clause No. 8 above for supply of materials by the GETCO.
7. G.I. Bolts / Nuts for assembling D.P. Structures and for guy sets.

4. STUB SETTING AND FOUNDATIONS :-

1. The contractor shall be fully responsible for correct setting of stubs in accordance with approved methods at the exact locations and alignments and in precisely correct level; stub setting templates to the supplied by the GETCO should be used for proper setting of stubs. The contractor will be responsible for constructing the foundations in accordance with the design of each type of foundations supplied to him by the GETCO and as per approved final schedules.

2. The foundation work includes stone revetment, concrete or earth filling above ground level where necessary and stacking and tamping on the site of all surplus excavated soil. Surplus stone should be stacked within the tower base

3. The rates for stub setting are inclusive of cutting of stubs (if any), setting of stubs, leveling at correct level, dismantling of template after concrete, back-filling work etc.

5. Classification of Soil.

a) Normal Dry Soil: The soil readily removable with ordinary spades and shovels viz. Murram, hard murram etc. and to be used for location in normal dry cohesive or non cohesive soils. If the black cotton soil is encountered up to 500 mm below ground level, normal dry soil foundation shall have to be adopted. (The normal dry soil foundation designs shall be inclusive of this stipulation)

b) Sandy dry soil: To be used for locations where cohesion less pure sand or negligible cohesive sand met in dry condition

c) Sandy wet soil: To be used in location where water table is met from top

d) Fully submerged black cotton Soil. To be used at locations where soil is clay type, not necessarily black in color, which shrinks when dry and swells when wet, resulting in differential movement extending to a max., depth of 3.5 meter below ground level. For designing foundation for this location the soil shall be considered submerged in nature. If the black cotton soil is encountered only up to 500 mm from ground level, normal dry soil foundation shall be adopted. (This foundation design shall be inclusive of this stipulation)

5) Soft Rock: Soft rock to be used at locations where decomposed or fissured rock, hard gravel, kankar, lime stone, laterite or any other soil of similar nature is met. Undercut type foundation is to be used for soft rock locations.

f) Hard Rock: To be used at locations where chiseling, drilling, and blasting is required.

g) Fully submerged soil: To be used at locations where sub soil water table is met at less than 1.50 meter below ground level and up to complete depth of foundation.

h) Partially submerged soil: To be used at the locations where the submerged soil water table is met at 1.5m or more than 1.5 m below the ground level, the top portion of the strata being normal dry soil. Soil strata for adopting various types of foundations

6. FOUNDATION:

a. EXCAVATION
i. The excavation will be limited to the volumes as per approved excavation drawings even though the Bidder may excavate more for the sake of his own convenience or for any reasons. If the excavated dimension/s is/are more than the dimension/s shown in the approved drawing, the additional excavated volume should be filled in with M10 mixture concrete at Bidders cost in respect of materials, labours etc.

ii. In case of rock soil, the extra excavated rock portion on all sides shall be filled with M20 mix concrete at his own cost in respect of materials, labours etc.

iii. The rates indicated in schedule for excavation work in each soil shall be applicable to all the locations as per actual condition of the soil strata irrespective of classification of type of foundation.

iv. The rates for excavation indicated in schedule shall also be applicable for benching work, if required.

b. **EXCAVATION IN ROCK** : Where the towers are to be planted in rock, suitable holes should be drilled, but if drilling is difficult, blasting may be resorted to, but sufficient care should be taken to eliminate the possibility of serious cracking of the rock. Care should also be taken to minimize the concreting for filling blasted areas. Stubs may be shortened suitably in case of drilled holes as per design drawings.

c. **Curing and back-filling :**
   i. After 24 hours of pouring, the concrete should be cured by keeping it continuously wet for 14 days. After 48 hours of pouring, the pit may be backfilled with excavated selected earth (which is free from grass, dung, wooden waste, postures and fodder woods, shrubs, thorn etc.) sprinkled with necessary amount of water and well compressed and consolidated in layers not exceeding 150 mm. If the excavated soil consists of large boulders/stone, the same shall be broken to maximum size 80 mm and mixed with soil to be back filled. At the locations where borrowed earth is required for back filling, this shall be done by the Bidder at his own cost, irrespective of transportation from any land. Thereafter, the exposed top end fill shall be kept wet for the remainder of above prescribed curing period. The uncovered portion of concrete chimney above the back filled earth shall be kept wet by providing empty gunny bags fully wrapped around the concrete chimney for curing and ensure that the bags are kept wet by frequent pouring of water on them.

   ii. Extra ordinary care shall be taken during back filling. The Bidder and GETCO Engineer at site shall ensure that the back filling is done in the manner referred above so that back filled earth become homogeneous with surrounding parent soil with the passage of time. The record for the same with day/date of curing, back filling etc be maintained in the register and duly signed by the Bidder and GETCO representative. The quantities of excavated earth obtained from a particular location shall be generally utilized in back filling work in protection of tower footing of same location unless it is unsuitable for such purpose. In the later case, the back filling shall be done with borrowed earth of suitable quality irrespective of land and the consolidation of earth shall also be done free of cost.

   iii. The excavation of pits shall be of size 2' x 2' x 7' (600 x 600 x 2100 mm) where the condition of soil is normal and size of the pits should be 2' x 2' x 7'½' (600 x 600 x 2500 mm) where very soft soil is encountered and in this case bottom 6' (150mm) shall be kept concreted (Ratio 1:3:6 / M-15) and well settled before the structure is erected only if so directed by Engineer in charge of work. The concrete otta of size 0.4 x 0.4 x 0.3 Mtr. shall be provided and it shall be slopping towards all sides as per instruction of Engineer in charge. If size of pits are increased more then the given specification no extra payments shall be paid to the contractor. Due to this the extra concreting will have to be done at the cost of contractor. The excavation in HR / SR for any items shall be paid extra.

   iv. All the structures and metal parts will be given one coat of red oxide paint before erection and two coats of Asian / Burgor / Nerolac make Silver Aluminum after erection including supply of paint. Lowest portion of about 7' (2100 mm) shall be painted with two coats of good quality of black bituminous anti-corrosive paint. After complete drying of the red oxide coat, the coat of silver paint will be applied as a final coat before applying any paint, all steel members are to be completely cleaned with wire brush or rust remover, if initial coat of primer is not given to the issued items. The paint should be get approved before supplied for change if any.

ev. Only girders will be issued at one end of the line. The work under the item (erection of structure) includes transportation of structures with all accessories from the specified to the work site, lifting of the all members, excavation in all sort of soil, erection, painting, numbering, fitting of anti-climbing device, danger boards, muffing etc. The NP, DP, and ACD are to be supplied by the contractor. Rates for concreting of structure shall be paid extra.

vi. A first coat of primer (Red oxide) is to be applied (after wire brushing the surface) before erection of D.P. structure.

d. **SHORING, SHUTTERING AND Dewatering:** The Bidder has to arrange for shoring, shuttering and dewatering work during activities of excavation, stub setting and concreting. These shall be done at his own cost.

   i. **CONCRETE:** The rates indicated in schedule for concrete work shall be applicable to all the locations irrespective of soil strata and type of foundation adopted. The Bidder shall have to procure cement from the open market according to line requirement and keep sufficient quantities to avoid delay in work. Same quantity of cement is to be utilized from his own stock. The amount of cement utilized at each location duly certified by concerned GETCO supervisor and engineer in charge of work, is required to be maintained and submitted with each R.A Bill. No wastage is permitted as same is to be procured by the Bidder of brand approved by the GETCO at his own cost from the authorized dealer.

   ii. All Structures are to be fully concreted, and the pit should be dug in such a way that concrete should have a direct bond to the structure and each cement concrete will be in the ratio of M15. The cement bags shall have to be used for 6.5 bag / cmt. of concrete.

   iii. If needed the contractor shall bind to show to the Executive Engineer or Superintending Engineer, the concrete portion of 1’ support of guy for every 50 No such supports of guys after excavation earth all around. The contractor will be intimated in writing three days in advance for such inspection, if required to be done in case of any eventuality will be done free of charge by the supplied contractor.

   iv. The sand should be cleaned, gritty and composed of hard siliceous grains. It should be free from clay and other organic materials. If there is any trace of earthing metal in the sand the same must be washed for this purpose and should be got approved from the Executive Engineer.
v. Aggregate crusher metal should be of sound, hard and durable stone to pass through a net ½" to ¾". As far as possible all metal should be perfectly cleaned, washed and free of sulfur. All concrete should be mixed on a water tight platform. The work when finished, it must be kept wet continuously for a period of 10 days. Muffling of 0.4mm dia x 0.3mtr. height by M15 cement concrete should be carried out per each leg of ‘H’ frame structure as per instruction of Engineer in charge by providing form box of 0.4mm dia x 0.3 mtr. height.

e. **SPECIAL CONDITION FOR USE OF CEMENT IN WORK:-**

1. The rate in Schedule “B” is inclusive of Cement Cost. Contractor has to purchase fresh 43 grade cement confirming to as per IS-8112 and of approved brand by GETCO.
2. Contractor has to construct “Pucca Godown” at site of the work so that Cement bags can be properly preserved to avoid damage due to any kind of Water.
3. Contractor shall have to procure cement by purchasing from the open market according to line requirement and keep sufficient quantities to avoid delay in work. Same quantity of cement is to be utilized from his own stock. Account of cement utilized at each location duly certified by concerned GETCO’s supervisor and engineer in charge of work. The account is required to be maintain and submitted with each RA bill. No payment shall be made toward cost of cement bags utilized in each running bills without submission of cement consumption details. No wastage is permitted as same is to be procured by the contractor at his own cost from the authorized dealer approved by the GETCO. No wastages towards cement is permitted.
4. Cement should give the required strength of cement concrete.
5. To bring sufficient and timely cement at site is full responsibility of contractor. Nothing extra will be paid on account of any reason to maintain progress of work and to complete the work in Schedule time.
6. Contractor has to submit material A/c for consumption of cement used with every bill. In case of not submitting the same, bill will not be passed. Contractor has to submit the copy of cement purchase Bill along with each RA Bill/ Final Bill.
7. No negative variation will be allowed for consumption in cement then prescribed as per Booklet of Technical Specification of GETCO/Mix Design and nothing will be paid extra for over consumption.
8. Contractor is fully responsible for safety of cement at site, nothing will be paid extra on account of safety.
9. If GETCO’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 at site.
11. As far as possible, Contractor has to maintain supply of cement of only one brand & grade throughout the work and on account of closer/shortage of approved brand, cement of other brand in accordance No.(01) will be allowed by Engineer-in-Charge.
12. Minimum cement Consumption considered for cement concrete:-

<table>
<thead>
<tr>
<th>M15</th>
<th>6.5 Bags per CMT</th>
</tr>
</thead>
<tbody>
<tr>
<td>M20</td>
<td>8.2 Bags per CMT</td>
</tr>
</tbody>
</table>

Cement concrete shall be done as per M15 instead of 1:3:6 & M20 instead of 1:2:4)
13. Contractor will be allowed to carry out work only after Physical Verification of cement brought at site.
14. The steel bars required for RCC type foundation shall be procured by the contractor in advance to avoid delay in the work.
15. No wastage is permitted for reinforcement steel and as reinforcement steel is to be procured by the contractor at his own cost. NO over lapping of RCC is permitted in foundation work.
16. GETCO reserves right to test the quality of steel and cement procured by the contractor at any Govt. Recognized Laboratory and intended to be used for the tower foundation works. The test results shall be binding to the contractor closer /shortage of approved brand, cement of other brand in accordance of condition No.(01) will be allowed by Engineer-in-Charge.
17. The Cement and Steel of the following companies/suppliers who are manufacturing for supplying are to be provided by contractor.

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Name of Manufacturer of Cement</th>
<th>Name of Manufacturer/supplier of structural steel/coils/bars/etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Narmada Cement Company Ltd.</td>
<td>Steel Authority of India.</td>
</tr>
<tr>
<td>2</td>
<td>Gujarat Ambuja Cement Co. Ltd.</td>
<td>Tata Iron &amp; Steel Co. Ltd.</td>
</tr>
<tr>
<td>3</td>
<td>Saurashtra Cement</td>
<td>Jindal</td>
</tr>
<tr>
<td>4</td>
<td>Siddhi Cement</td>
<td>Lloyds</td>
</tr>
<tr>
<td>5</td>
<td>J.K. Cement</td>
<td>Essar Steel Ltd.</td>
</tr>
<tr>
<td>6</td>
<td>L &amp; T Cement (Ultratech)</td>
<td>Ispat</td>
</tr>
<tr>
<td>7</td>
<td>Shri Digvihaya Cement Co. Ltd.</td>
<td>Bhawalka Steel Industries Ltd. Mumbai.</td>
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<td>8</td>
<td>Binani Cement</td>
<td>Sun Vijay Rolling and Engineer, Nagpur.</td>
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<td>9</td>
<td>Vikram Cement</td>
<td>Shri Bajranga Alloys Ltd. Raipur.</td>
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<td>10</td>
<td>Sanghii Cement</td>
<td>Unique Structures and Towers Ltd. Raipur.</td>
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<td>12</td>
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<td>Gallant metal</td>
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<td>13</td>
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<td>Varsana Ispat</td>
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<tr>
<td>14</td>
<td></td>
<td>Nikanth steel</td>
</tr>
</tbody>
</table>

f. **PROTECTION OF TOWER FOOTING:** Quantities of various protection works like stone revetment, concrete revetment, brick masonry and random stone masonry to the foundations are to be executed by the successful Bidder if indicated in the schedule and payment for such quantity shall be as per unit rates accepted.

7. **ERECTION OF STRUCTURE:-**

- The super structure of towers should be erected on foundations after 14 days of concreting. However, the method adopted for erection of towers is left to the decision of the contractor subject to the condition that he takes responsibility for any damages to materials. No. tower member should get strained or bent during erection. The tower must be truly vertical after exaction and no straining would be allowed to bring it in alignment. Maximum tolerance in verticality that will be permitted is one mm per 360mm of tower height. All bolts and nuts shall be made fully tight and finally the bolt threads shall be centre purchased to avoid nuts.
becoming loose, punching of bolts shall be made by chamfering the threads with centre punch at least at three places equally spaced on contact surface of bolts and nuts.

i. Complete tower erection shall include erection of all accessories like danger board, number plate, phase plate, C.I. Plate, Anti-climbing devices and fittings including attachments like step bolts, ladders, platforms, 'U' bolts, shackles, hangers, strain plates etc. in all respect.

ii. Suitable tower extension shall be erected to get desired ground clearance whenever required, as determined at the time of survey and profiles.

iii. To avoid pilferage of bolts and nuts and tower members, the bolts of the two bottoms most panels (say up to 10 meters) shall be tack welded at three places on the nuts diametrically. The zinc rich paint shall be procured by the Bidder at his own cost and shall be applied immediately following the tack welding.

7.1 ERECTION OF GUY SETS: - Pits of 2' x 2' x 5' (600 x 600 x 1500 mm) are to be dug and the guy anchor rod will have to be concrete completely or partially as per instructions. Rates for concreting shall be paid extra. Items of work includes transportation of materials to site, excavation in all sorts of soils, fixing of guy wire, binding and tensioning of guy wire, painting of guy set and clamps.

7.2 GROUNDING: The Bidder shall measure the tower footing resistance of each tower after it has been erected and before stringing of the earth wire during dry weather. Each tower shall be earthed; the tower footing resistance shall not exceed 10 ohms. Pipe type and counter poise type earthing which ever required shall be done in accordance with the latest edition and revision of IS : 3043 (code of practice for earthing). The Bidder shall measure the footing resistance of each location and prepare the record for submission and approval of Engineer-in-Charge for deciding the type of grounding to be provided.

7.3 EARTHING: - The arrangement shall be of pipe or counter poise type as per specification and drawing. The work of earthing must be carried out as per drawing. Necessitate earthing materials like pipe, G.I. flat 50 X 6 mm., coke, salt etc. will have to be supplied by the contractor. Suitable holes will be provided in the girder and shall be connected to earthing.

7.3.1 PIPE TYPE EARTHING: At locations where footing resistance does not exceed 10 Ohms… the pipe type earthing as per appended drawing shall be provided. The Bidder will have to supply all the materials required for grounding like pipe, flat, bolt-nuts, salt, fine broken coke/charcoal etc. The earthing is to be done by making a bore hole for insertion of pipe away from the tower leg excavation line as per attached drawings.

7.3.2 COUNTERPOISE EARTHING: At locations, where footing resistance exceeds 10 Ohms, counterpoise earthing as per appended drawing shall be provided to bring down the tower footing resistance below 10 Ohms. The Bidder will have to supply all the materials required for grounding like lugs, G.I. wire, bolts, nuts etc. The counterpoise earthing shall be buried 600 mm below ground level and for this purpose some space should be left out in chimney coping portion at the time of stub setting. Coping should be complete after installation of counterpoise earthing. All materials are to be supplied by the contractor.

7.4 INSULATOR HOISTINGS:

7.4.1 Suspension silicone rubber insulator/ Anti-Fog Disc Insulator/Plain Disc Insulator strings shall be used on all tangent type towers with deviation up to 2 and tension silicone rubber insulator/ Anti-Fog Disc Insulator/Plain Disc Insulator string on all shall medium, large angle and dead end type towers on all lines. Technical particulars of insulator Strings are indicated in section-II of this specification.

7.4.2 Insulators string shall be assembled on ground. These shall be cleaned and examined for their cracks ship or defective glazing (not exceeding half centimeter square) and then hoisted by careful handling, the work will include fitting of all hardware's and fitting in their proper places and order.

7.5 STRINGING OF CONDUCTOR AND GROUND WIRE: Stringing of 3 Nos. of ACSR / AAAC conductor (Dog / Panther) with hoisting of necessary insulators as per pole schedule, jumpering, binding, jointing, providing armour rods etc. complete should be done. The rate should be quoted per route Km. Care must be taken in handling the conductor to protect against scratches. Conductor must not be drawn over rough or rocky ground, as it is likely to get damaged. Conductor must be drawn over ground rollers and pulley only. It is important that the conductor be pulled to the proper tension. The conductor will have to carry out the stringing of conductor using sag board as per instruction of Engineer in charge to keep uniformity of sag and required clearance. All points wherever necessary will have to be done by the contractor as per instruction of Engineer in charge. Vibration Damper and bird guards are to be fixed wherever indicated by the Executive Engineer. The joints shall be compression type. The portion of the conductor to be joined will be thoroughly cleaned and shall be coated with special anti-corrosive or anti-oxide compound.

7.5.1 The sleeves should be adequately pressed for joints shall be reduced to the minimum on the whole length of the line. At straight joint jumper shall be connected by parallel groove clamps, inside of which shall be supplied and coated with anti corrosive compound.

7.5.2 On crossing of truck road and railways, double making dead end and mid span jointing wherever required.

7.5.3 The compressor machine is to be arranged by contractor.

7.5.4 The details of conductor and other material issued should be maintained in site register.

7.5.5 Before commencing of stringing work, contractor must obtain sag tension charts (these shall be supplied by the GETCO) showing initial and final sags and tensions for various temperatures and spans.

7.5.6 The stringing work should be carried with the help of tensioner and puller machine or Manual.

7.5.7 The contractor shall be responsible and will take care of proper handling of drums from stores to site, sufficient numbers of aluminum sketch blocks shall be used for laying out the A.C.S.R. Conductors. Necessary precautions shall be taken to avoid conductor rubbing on the ground by providing adequate ground rollers on supports. Additional rollers shall also be provided to cross thorny hedges, forcing and other obstructions to avoid scratching of conductors. The conductor and ground wire shall be made to sag correctly as per stringing charts before they are finally transferred to the hard ware’s for conductors and to clamps for ground wire, No joints should be made at less than 30 meters from the tower and that no joint shall be permitted in Railway, River & Road crossing spans. There shall not be more than one joint in a span of each conductor. All conductors shall be stressed to their maximum working load at the time of stringing.

The minimum clearance between the lowest point of conductor and ground shall not be than those indicated in section-II of this specifications. All compression joints should be carefully made and a record of initial and final length of the joints, jointly signed by contractor's and GETCO's representatives should be maintained. Dynamometer shall be used in tensioning the conductors, check for sag should also be made at intervals when conductors are drawn up. Over stressing, causing damage...
to towers, should be avoided care should be exercised not to over tension the conductor. An extra sag if 150mm should be allowed at all important tension points like Railway and River crossing.

7.5.8 After being pulled the conductor/ground wire shall not be allowed to hang in the stringing sheaves for more than 72 hours before being pulled to the specified sag. During the time the conductor/ground wire in on the stringing sheaves before sagging in, it shall be ensured that the conductors/ground wire is not damaged to wind, vibration vehicles or other causes.

7.5.9 The conductor shall be pulled up to desired sag, and left in Arial stringing sheaves for at least one hour after which the sag shall be rechecked and adjusted, if necessary, before clipping in transferring the conductors from the Arial stringing sheaves to the suspension clamps.

7.5.10 Conductor shall be clamped within 24 hours of sagging in. The sag will be checked the first and last span of the section in case of sections up to eight spans and in one intermediate open also for section with more than eight spans.

7.5.11 The stringing sheaves, when suspended on the transmission structure for sagging, shall be so adjusted that the conductor will be on the sheaves at the same height as the suspension clamp to which it is secured.

7.5.12 All the line conductors shall be terminated at sub-station structures whose details shall be furnished by the GETCO, at the appropriate times. The contractor shall fix strain insulators on the sub-station structures.

7.5.13 Rods and Vibration Dampers shall be fitted at each suspension towers before final clamping of conductor with insulator string. Vibration damper are to be fixed using aluminum tape with each clamping bolt and in correct vertical position in relation to conductor. Compression type joints are to be used for jointing of conductors. Each part connected with joints shall be perfectly cleaned by wire brush and properly greased before final compression. All the joints of conductors and earth wire shall be made in the best workmanship manner and shall be perfectly straight and having maximum possible strength.

7.5.14 Stringing work includes the hoisting insulators, fixing hardware, lifting amour rods, and vibration dampers, making joints, repair sleeve etc. All stringing tools and hydraulic compressor machine should be arranged by the contractor.

7.5.15 The stringing work should be planned in such a manner in consultation with the Engineer in charge of the work that minimum shut down of power line crossings are required. Revenue loss due to any undue shut down i.e. after the shut down is arranged and required to be extended on account of bidder shall be recoverable from the bidder.

7.5.16 The stringing of the ground wire shall be done in accordance with the stringing charts approved by the GETCO. The ground wire of galvanized steel shall be strung to run continuously over the conductors. The ground wire shall be pulled, sagged and clamped-in from tension tower to tension tower before the phase conductors are pulled in that section.

7.5.17 Proper guys shall be provided to counter balance the paying out tension of conductor/ground wire at the tension locations, to avoid damage to towers and/or accident.

8.6 CUTTING OF STEEL SECTION AND DRILLING OF HOLES:- In case during execution of work, steel poles or steel sections are required to be put hole to be drilled or rammed according to the requirement in size, the contractor shall be asked to do the work and the extra shall be paid for the same. The rates for each cuts or holes or ramming of holes shall be quoted separately and contractor shall have to take the prior written approval of the Engineer in charge for the job.

B. "H" FRAME STRUCTURES :-

1. GENERAL DETAILS OF ERECTION:

A COMPENSATION AGAINST DAMAGED CROP ETC :-

1.1 The GETCO will secure all rights or way leaves for the work. The permission for falling trees which would obstruct the erection of line or for cutting the trees in order to obtain requisite clearance from the ground to conductors shall be obtain by the GETCO. Trees falling within strips of 6.0 mtr. i.e. 3.0 mtr. on either side of the wire shall have to be cut and cleared by the contractors at his own cost. Clearance wherever necessary shall be arranged by the GETCO.

1.2 The GETCO will arrange to pay compensation to owners for damage to trees, fences, crops and any other properties required for erection work except the damages caused due to the negligence of the contractor or his staff. The compensation for the damage due to contractor's negligence shall have to be paid by the contractor.

B FIXING OF LOCATIONS :- The poles, guys and earthing position will be located by the department before commencement of erection work. The Contractor will be shown the type of support to be erected at each pole position on joint detailed survey. The route map attached is a proposed and likely to change a little at the time of actual peg marking. The GETCO will arrange surveyor for survey only if not mentioned in schedule-B. Other labour required are to be provided by the contractor.

C PRECAUTION FOR ERECTION :- Structures and guys must not be set along the angle of cuts of embankment where soil is liable to be washed out unless special precaution is taken to ensure the durable foundation. If it is found that any structure set along the edge of cuts and embankment the same will have to re-erect by the contractor. Ground level shall maintain between any two locations as per instruction without any extra cost. Where ever high ground level shall come between any two locations and at the time of stringing, it is felt that the specified clearance as per prevailing rules not be achieved the contractor shall have to cut that much of ground as per the instruction of Engineer-in-charge.

D RATES:- Before tendering rates for the works the contractor must examine the route of the line, the condition of terrain of land and the strata of land. Also rates quoted by him for each item the rate should be reasonable and proportions to tender. In case the tender has quoted very exaggerated of work the tender will be rejected. Also the contractor should read the term and conditions and specifications for this work very carefully and include the cost of materials to be supplied by him in the unit rate of the corresponding item of work.

2. ERECTION OF STRUCTURE:- The excavation of pits shall be of size 2’x 2’x 7’(600 x 600 x 2100mm) where the condition of soil is normal and size of the pits should be 2’x 2’x 7 ½’ (600 x 600 x 2500mm) where very soft soil is encountered and in this case bottom 6” (150mm) shall be first concreted ( Ratio 1:3:6 / M-15) and well settled before the structure is erected only if so directed by Engineer in charge of work. The concrete otta of size 0.4 x 0.4 x 0.3 Mtr. shall be provided and it shall be slopping towards all sides as per instruction of Engineer-in-charge.

If size of pits are increased more then the given specification no extra payments shall be paid to the contractor. Due to this the extra concreting will have to be done at the cost of contractor. The excavation in HR / SR for any items shall be paid extra.
Back filling on the structures shall be done after fixing of earth wire so that wire may not remain out and with mixture of murrum and field metal for back filling the excavated stuff can be used if it is found suitable for doing so and it is not of very soft nature. The consolidated back filling materials, should be well wetted and rammed and packed tight. Any sub subsequent sinking of the soil or any fitting of the structure will have to be attended by the contractor free of cost and to the satisfaction of the concern Deputy Engineer / Executive Engineer. 

When very hard rock is encountered the depth of the excavation shall be 6’ (1800mm) or shall be reduced by more with written permission of Executive Engineer, where as resultin tapering excavation, but in no case the bottom of the pit should be less than 1’ x 1’ (300 x 300 mm).

All the structures and metal parts will be given one coat of red oxide paint before erection and two coats of Asian / Burgor / Nerolac make Silver Aluminum after erection including supply of paint. Lowest portion of about 7’ (2100 mm) shall be painted with two coats of good quality of black bituminous anti-corrosive paint. After complete drying of the red oxide coat, the coat of silver paint will be applied as a final coat before applying any paint, all steel members are to be completely cleaned with wire brush or rust remover, if initial coat of primer is not given to the issued items. The paint should be get approved before supplied for change if any.

Only girders will be issued at one end of the line. The work under the item (erection of structure) includes transportation of structures with all accessories from the specified center to the work site, lifting of the all members, excavation in all sort of soil, erection, painting, numbering, fitting of anti-climbing device, danger boards, muffing etc. The NP, DP, and ACD are to be supplied by the contractor. Rates for concreting of structure shall be paid extra.

A first coat of primer (Red oxide ) is to be applied (after wire brushing the surface) before erection of D.P. structure.

3. ERECTION OF GUY SETS: - Pits of 2’ x 2’ x 5’ (600 x 600 x 1500 mm) are to be dug and the guy anchor rod will have to be concrete completely or partially as per instructions. Rates for concreting shall be paid extra. Items of work includes transportation of materials to site, excavation in all sort of soils, fixing of guy wire, binding and tensioning of guy wire, painting of guy set and clamps.

4. EARTHING: - The arrangement shall be of pipe or counter poise type as per specification and drawing. The work of earthig must be carried out as per drawing. Necessary earthing materials like pipe,GI flat 50 X 6 mm , coke, salt etc. will have to be supplied by the contractor. Suitable holes will be provided in the girder and shall be connected to earthing.

5. STRINGING: - Stringing of 3 Nos. of ACSR / AAC conductor (DOG / Dog) with hoisting of necessary insulators as per pole schedule, jumpering, binding, jointing, providing armour rods etc. complete should be done. The rate should be quoted per route Km. Care must be taken in handling the conductor to protect against scratches. Conductor must not be drawn over rough or rocky ground, as it is likely to get damaged. Conductor must be drawn over ground rollers and pulley only. It is important that the conductor be pulled to the proper tension. The conductor will have to carry out the stringing of conductor using sag board as per instruction of Engineer in charge to keep uniformity of sag and required clearance. All points wherever necessary will have to be done by the contractor as per instruction of Engineer in charger. Vibration Damper and bird guards are to be fixed wherever indicated by the Executive Engineer. The joints shall be compression type. The portion of the conductor to be joined will be thoroughly cleaned and shall be coated with special anti-corrosive or anti oxide compound. The sleeves should be adequately pressed for joints shall be reduced to the minimum on the whole length of the line. At straight joint jumper shall be connected by parallel groove clamps, inside of which shall be cleaned and coated with anti corrosive compound.

On crossing of truck road and railways, double making dead end and mid span jointing wherever required. The compressor machine is to be arranged by contractor.

The details of conductor and other stringing material issued should be maintained in site register.

6. CONCRETING:- All Structures are to be fully concreted, and the pit should be dug in such a way that concrete should have a direct bond to the structure and each cement concrete will be in the ratio of M15. The cement bags shall have to be used for 6.5 bag / cmt. of concrete.

If needed the contractor shall bind to show to the Executive Engineer or Superintending Engineer, the concrete portion of 1’ support of guy for every 50 No such supports of guys after excavation earth all around. The contractor will be intimated in writing three days in advance for such inspection, if required to be done in case of any eventuality will be done free of charge by the contractor.

The sand should be cleaned, gritty and composed of hard siliceous grains. It should be free from clay and other organic materials. If there is any trace of earthing metal in the sand the same must be washed for this purpose and should be got approved from the Executive Engineer.

Aggregate crusher metal should be of sound, hard and durable stone to pass through a net ½” to ¾”. As far as possible all metal should be perfectly cleaned, washed and free of sulfur. All concrete should be mixed on a water tight platform. The work when finished, it must be kept wet continuously for a period of 10 days. Muffing of 0.4mm dia x 0.3mtr. height by M15 cement concrete should be carried out per each leg of ‘H’ frame structure as per instruction of Engineer in charger by providing form box of 0.4mm dia x 0.3 mtr. height.

6.1 SPECIAL CONDITION FOR USE OF CEMENT IN WORK:-

19. The rate in Schedule “B” is inclusive of Cement Cost. Contractor has to purchase fresh 43 grade cement confirming to as per IS-8112 and of approved brand by GETCO.
20. Contractor has to construct “Pucca Godown” at site of the work so that Cement bags can be properly preserved to avoid damage due to any kind of Water.

21. The contractor shall have to procured cement by purchasing from the open market according to line requirement and keep sufficient quantities to avoid delay in work. Same quantity of cement is to be utilized from his own stock. Account of cement utilized at each location duly certified by concerned GETCO’s supervisor and engineer in charge of work. The account is required to be maintain and submitted with each RA bill. No payment shall be made toward cost of cement bags utilized in each running bills without submission of cement consumption details. No wastage is permitted as same is to be procured by the contractor at his own cost from the authorized dealer approved by the GETCO. No wastages towards cement is permitted.

22. Cement should give the required strength of cement concrete.

23. 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.

24. Contractor has to submit material A/c for consumption of cement used with every bill. In case of not submitting the same, bill will not be passed. Contractor has to submit the copy of cement purchase Bill along with each RA Bill/ Final Bill.

25. No negative variation will be allowed for consumption in cement then prescribed as per Booklet of Technical Specification of GETCO/Mix Design and nothing will be paid extra for over consumption.

26. Contractor is fully responsible for safety of cement at site, nothing will be paid extra on account of safety.

27. If GETCO’s authorized representative wants to check cement stock at site, contractor has to allow for the same at any time.

28. Contractor has to maintain day-to-day cement consumption/balance at site.

29. As far as possible, Contractor has to maintain supply of cement of only one brand & grade throughout the work and on account of closer/shortage of approved brand, cement of other brand in accordance No.(01) will be allowed by Engineer-in-Charge.

30. Minimum cement Consumption considered for cement concrete:-
   M15 – 6.5 Bags per CMT
   M20 – 8.2 Bags per CMT
   (Cement concrete shall be done as per M15 instead of 1:3:6 & M20 instead of 1:2:4)

31. Contractor will be allowed to carry out work only after Physical Verification of cement brought at site.

32. The tor Steel bards required for RCC type foundation shall be procured by the contractor in advance to avoid delay in the work.

33. No wastage is permitted for reinforcement steel and as reinforcement steel is to be procured by the contractor at his own cost. NO over lapping of RCC is permitted in foundation work.

34. GETCO reserves right to test the quality of steel and cement procured by the contractor at any Govt. Recognized Laboratory and intended to be used for the tower foundation works. The test results shall

35. be binding to the contractor closer /shortage of approved brand, cement of other brand in accordance of condition No.(01) will be allowed by Engineer-in-Charge.

36. The Cement and Steel of the fallowing companies/suppliers who are manufacturing for supplying are to be provided by contractor.

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Name of Manufacturer of Cement</th>
<th>Name of Manufacturer/supplier of structural steel/coils/bars/etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Narmada Cement Company Ltd.</td>
<td>Steel Authority of India.</td>
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<tr>
<td>2</td>
<td>Gujarat Ambuja Cement Co. Ltd.</td>
<td>Tata Iron &amp; Steel Co. Ltd.</td>
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<td>3</td>
<td>Saurashtra Cement</td>
<td>Jindal</td>
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<td>4</td>
<td>Siddhi Cement</td>
<td>Lloyds</td>
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<td>5</td>
<td>J.K. Cement</td>
<td>Essar Steel Ltd.</td>
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<td>6</td>
<td>L &amp; T Cement (Ultratech)</td>
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7. CUTTING OF STEEL SECTION AND DRILLING OF HOLES :-

In case during execution of work, steel poles or steel sections are required to be put hole to be drilled or rammed according to the requirement in size, the contractor shall be asked to do the work and the extra shall be paid for the same. The rates for each
cuts or holes or ramming of holes shall be quoted separately and contractor shall have to take the prior written approval of the Engineer in charge for the job.

8. **SUPPLY OF MATERIALS BY GETCO:-**
   1. The A, B, C type structures prepared from RSJ of 150 x 150 mm with all fittings.
   2. Guy sets with clamps.
   3. Guy wire 7/4.00mm size.
   4. Conductors, Disc Insulators, H/W for ACSR DOG or Dog as the case may be.
   5. All jointing materials and accessories for `DOG` and `PANTHER` conductor.
   Any other items required to complete the work. The above item No. (1) structures, Guy Rods and all other materials supplied from any store center of GETCO.

9. **MATERIALS TO BE SUPPLIED BY THE CONTRACTOR:-**
   2. G.I. Clamps with bolts, nuts and washers for fixing number plates and Danger board, anti-climbing devices complete.
   3. Coke, Salt and G.I. wire and all earthing requirements.
   4. Earthing pipe 32 mm dia, 2 mtr. long G.I. pipe of approved make and fabricated as per specification.
   5. Any other materials which shall be required to complete the work satisfactorily in all respects and not specified, in clause No. 8 above for supply of materials by the GETCO.
   7. G.I. Bolts / Nuts for assembling D.P. Structures and for guy sets.

   **Superintending Engineer (TR),**
   GETCO, CO, Anjar
**PRICE BID**

**NAME OF WORK:**
### SCHEDULE – B

**NAME OF WORK:** Erection of 66 KV LILO at 66KV Bhimasar S/S on D/C Panther Tower with Panther Conductor from existing 66 KV ‘H’ frame Anjar - Chirai Tap Sukhpar Dog conductor line

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Description of Item</th>
<th>Qty</th>
<th>Rate Per</th>
<th>Amount</th>
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<tbody>
<tr>
<td>1</td>
<td>Check Survey ....</td>
<td>1</td>
<td>5396.23</td>
<td>5396.23</td>
</tr>
</tbody>
</table>
| 2       | Excavation excluding back filling but including, shoring, dewatering tree cutting for tower footings etc.
          | (a) Normal Soil either Dry or Wet/ Sandy Soil                                       | 105 | 156.91   | 16475.55   |
|         | (c) Normal submerged/Marine Soil where dewatering is necessary.                      | 5   | 234.15   | 1170.75    |
|         | (e) Soft Rock                                                                        | 10  | 469.50   | 4695.00    |
|         | (f) Hard Rock                                                                        | 10  | 912.45   | 9124.50    |
|         | Installation of steel reinforcement in concrete foundation including supply of MS bars binding wire & their cutting, bending, binding & laying in position as per drawing. | 0.8 | 56331.20 | 45064.96   |
| 3       | Stub Setting including back filling but excluding excavation and concreting etc, for all types of towers/extensions except special towers.
          | (Weight of stub, cleat & template with bolt & nuts of stub & template shall be counted) for up to 6 mtr. ext. | 2   | 4301.53  | 8603.06    |
| 4       | Concreting of foundation by M-20 mixture including shoring, shuttering, dewatering etc for normal tower/tower with extension upto 21 Mtr (Rates are with cement)
          | (a) 1:1.5:3 mixture                                                                 | 15  | 6530.86  | 97962.90   |
| 5       | Grounding of towers with pipe type earthing including excavation and back filling and supply of all materials like 32mm dia heavy duty 3 mtr long GI Pipe & 50x6 mm GI flat, bolt-nuts salt, coal/charcoal etc as per drawing. | 2   | 4301.53  | 8603.06    |
| 6       | Erection of Super Structure Upto 6 Meter extension including tree cutting, fixing of tower accessories, attachments except ACD/ DP/ NP/ CIP/ PP and excluding tack welding of bolts.
          | This includes taking delivery of tower materials and bolt-nuts from Board's stores etc for normal, extension & special towers at destination and keeping them in safe custody and transporting the same to erection site. | 8   | 4848.28  | 38786.24   |
| 7       | Fixing of Anti climbing devices including supply of barbed wire (except special towers). | 2   | 1173.15  | 2346.30    |
| 8       | Fixing of DP/ NP/ PP/ CIP including supply of plates and supply of GI bolts- nuts & tack welding as per drawing. | 2   | 2346.29  | 4692.58    |
| 10      | Tack welding of nuts upto Approx 10 Mtrs height or two bottom-most panel from ground level at three places on nuts diametrically and applying zinc rich paint immediately of EIC | 1100 | 7.54     | 8294.00    |
| 11      | Stringing of ACSR/AAAC 6(six) conductor for double circuit including lying, jointing, tensioning, clamping with accessories armoure rod, hosting of insulator, jumpering, vibration damper etc. with required tree cutting on entire length of line. (66/132 KV PANTHER) | 0.4 | 54486.09 | 21794.44   |
| 12      | Stringing of One ground wire including laying, jointing, tensioning, clamping with accessories jumpering & sister wire, vibration damper earth bond etc & including tree cutting (66/132KV Panther) | 0.3 | 8576.51  | 2572.95    |
| 13      | Erection of stay set complete with stay clam, turn buckle, eye bolt, anchor rod and binding with 7/8 or 7/10 SWG earth wire. | 6   | 358.46   | 2150.76    |
| 14      | Providing concrete for padding for all the structure, stay set with M-15 including stay set with supply of sand, metal, cement (43 grade) with muffing 400x400x300 mm above ground level for all structure. | 5   | 6058.56  | 30292.80   |
15. Termination & connection for making LILO arrangement with existing line during specified outage. (Cold Condition) 66/132KV Panther

16. Conversion of 'A' type 'H' frame structure to 'B' type 'H' frame structure by replacing necessary channels etc. and termination & restringing of Dog or Panther 3 conductor for making LILO arrangement with existing line during availability of specified outage only.

17. Dismantling of 'A' & 'B' type 'H' frame structure by breaking of muffing upto 450mm depth from ground level and cutting the griders from 450mm depth from ground level by gas cutting & crediting the material to Const. Store as instructed by Engineer In-Charge.

18. Dismantling of all three conductors and line material such as insulators,hardwares etc.and crediting the same to the Board's Store from where line material is issued with submission of pole wise inventory for preparing CR.note.

19. Painting of name of line with Location number & Colour Code and telephone number on tower for identification of concerned substation including supply of paints, etc. *(a) all four legs.*

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**A**  Estimated Total (Without taxes)Rs. 388410.84

**B**  Percentage above / below = _____ % of (A) above/Below Amount Rs.

**C**  Total Rupees (A + B) Rupees

**D**  Add service tax@ prevailing rates…. OF (C) Amount Rs. As applicable

**E**  Total quoted price (C+D) Rs. As applicable

**Total amount Rs.**

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**Note: * The service tax/ welfare cess will be reimbursed to the contractor as applicable after producing proof of such payment made to the appropriate authority.**

1  All the work related to the transmission line like detailed survey, check survey, tower/DP foundations, material testing, tower/DP erection, stringing, final testing, etc should be carried out as per GETCO'S standard FQP for transmission line.

2  Successful bidder has to appoint site engineer to maintain site regester and FQP as per ISO

3  All work should be done according to ISO & FQP and all requier documents including filled FQP, testing results, etc should be submitted while handing over the line

4  While calculating the weight of stub-setting, the weight of stub, cleat & templettes shall also be added in stub weight.

5  Red oxide & zinc rich paint shall be applied after tack welding of nuts as per specifications.

6  The above rates are with supply of cement by the contractor.

7  The rate indicated above includes taking delivery of all stringing material Board's stock at destination keeping them in safe custody and transporting the same to erection site.

8  The rates of erection of 'H' frame structures are 'per NO' irrespective of weight & type of steel sections provided by the GETCO to be erected.

9  All 'H' frame A, B, C type structures, tensions guy are to be fully concreted and wind guys shall be cocreted for 0.6 mtr. Height only.

10 All the rates indicated above includes taking delivery of all stringing material from GETCO's store at destination & keeping them in safe custody & transporting the same to erection site. Similarly

**Note : Contractor shall have to take suitable storage-cum-erection insurance cover (comprehensive Marine cum Erection (MCE) insurance policy ),i.e. of Rs. 1328320.32 at his cost to the extent of 100% cost of s/s or line materials, which are required to complete the s/s or line as per tender conditions above.**

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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 work at __________ % Above / Below of (estimated amount at (A) (In words __________ % Above / Below) the Estimated rates at (A) mentioned above. Amount of Tender work out as under. Total amount of

My Tender

Rs. ____________ Amt.inRs. ________________

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**CERTIFICATE**

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

**SUPERINTENDING ENGINEER (TR)**
GETCO, CO, Anjar.

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Seal & Signature of Contractor (Page by page)