

CIN-U40102GJ2003SGC042906

|        |               |
|--------|---------------|
| PR NO  | <b>330639</b> |
| RFQ NO | <b>46764</b>  |

**E-Tendering NOTICE NO... PLN-CO- ... 26 /2017-18**

|                |  |
|----------------|--|
| Name of Work - | Erection work of HT, LT and Transformer Center at I'GADH Part-III Sub-division under jurisdiction of Palanpur-2 Division Office. |
|----------------|--|

|  |   |
|--|---|
| Estimate cost.   | Rs. 999979.00                                   |
| Earnest Money.   | Rs. 10000.00                                    |
| Security Deposit.  | 5% of order value                               |
| Last date for online tender submission & (Tender fees & EMD only DD) of receipt of tender at           | Date :-14-02-2018 On 18.00 Hrs.                 |
| Last date for physical submission of Tender & Technical documents by RPAD ONLY at Palanpur division-II | Date :- 15-02-2018 On 15.00 Hrs.                |
| Date & time of opening the tender  | Date: - 16-02-2018 On 17.00 Hrs. (If Possible ) |
| Type of tender   | Percentage rate.                                |
| <b>Tender Fee (Plus applicable GST)</b>  | Rs. 1000.00+ GST 18%                            |
| TIME LIMIT   | ONE YEAR  |

Earnest money deposit & Tender fee will be separate accepted Demand draft on any schedule bank at PALANPUR in favor of UTTAR GUJARAT VIJ COMPANY LIMITED, cheques or Bank guarantee will not be accepted.

Technical bids received through RPAD will be accepted.

SUPDT.ACCTT.  
UGVCL, DO-2, PALANPUR

EXECUTIVE ENGINEER  
UGVCL, DO-2, PALANPUR.

To be filled in the Tender.

- (1) Tendered Value :  
(To be filed by the Contractor)
- (2) Earnest Money Deposit Rs.  DD No.  Date   
Tender fee Paid vide DD No.  Date  Rs

(3) GST REGISTRATION NO...

**(4) UGVCL VENDOR REGISTRATION SHOULD BE ATTACHED WITH TECH. BID.**

**SCHEDULE: B (PRICE BID)**

Name of Work: - Erection work of HT line and Transformer Center at I'GADH PART-III Sub-division under jurisdiction of Palanpur-2 Division Office

| Sr. No. | Item              | Description of works   | Estimate Quantity | Unit | Tendered rate |                                     | Total Amount |
|---------|-------------------|--|-------------------|------|---------------|-------------------------------------|--------------|
|         | Code              |  |                   |      | In figure     | In Words                            |              |
| 1       | 2                 | 3  | 4                 | 5    | 6             | 7                                   | 8            |
| 1(a)    | <b>9901000001</b> | Tapping from Existing pole including fitting of clamps Cross arms Insulators & painting of iron parts as per drawing & specification for HT Line   | 48                | NO.  | 278           | Two hundred seventy eight           | 13444        |
| 1(b)    | <b>9901000002</b> | LT Tapping form Exit LT Line - Single Phase  | 21                | NO.  | 31            | Thirty one only                     | 651          |
| 1©      | <b>9901000003</b> | LT Tapping form Exit LT Line - Three Phase   | 13                | NO.  | 67            | Sixty seven only                    | 871          |
| 2       |                   | Erection of single pole comprising of excavation of pit and refilling of earth with cast iron base plates with top Insulators, Cross arm etc. complete as per drawing and specification with painting numbering and fixing of caution board and std. ant climbing devices + for single pole structure. The details of pole supplied by the Board are as under. |                   |      |               |                                     |              |
|         | <b>9902010001</b> | (A) PSC Pole 8 Mtr. Long 140 Kg./200 Kg. <b>(HT POLE)</b>  | 300               | NO.  | 675           | Six hun.seventy five                | 202500       |
|         |                   | (B) PSC Pole 8 Mtr. Long 140 Kg./200 Kg. <b>(LT POLE 1 PH)</b>   |                   |      |               |                                     |              |
|         |                   | (C) PSC Pole 8 Mtr. Long 140 Kg./200 Kg. <b>(LT POLE 3 PH)</b>   |                   |      |               |                                     |              |
|         | <b>9902010003</b> | (D) Steel Pole 40 to 90 lbs 30 to 42 feet.   | 9                 |      | 1120          | One thousand one hun.twenty only    | 10080        |
| 3       | <b>9902010002</b> | (E) PSC Pole 10 MT long 270 Kg.  | 9                 |      | 1815          | One thousand eight hun.fifteen only | 16335        |
|         |                   | Erection of special two pole structure such as tapping Railway Crossing structure and river crossing and structure for strain point with base plate X-arm, cross   |                   |      |               |                                     |              |



# Uttar Gujarat Vij Company Ltd.

|   |                   |   |     |          |         |                                 |        |
|---|-------------------|---|-----|----------|---------|---------------------------------|--------|
|   |                   | bracing etc. complete as per drawing and specification with painting numbering fixing of caution board and std. ant climbing device including supply of paint, Nuts, Bolts, and 2 Kg.Barbed wire of approved quality by the contractor.                   |     |          |         |                                 |        |
|   | <b>9902020002</b> | (a) PSC Pole 8 Mtr. Long with DO Unit   | 6   | NO.      | 1650    | One thousand six hun.fifty only | 9900   |
|   |                   | (b) PSC Pole 8 Mtr. Long without DO Unit  |     | NO.      |         |                                 | 0.00   |
| 4 |                   | Stringing of ACSR and all aluminum conductors with Insulator binding, Jump ring and joining etc. as per specification and drawing.  |     |          |         |                                 |        |
|   | <b>9903000001</b> | (A) Stringing of conductor 34 mm <sup>2</sup> to 55 mm <sup>2</sup> size for HT & LT Lines.   | 37  | KM S.    | 1240.00 | One thousand two hun.forty only | 45880  |
| 5 | <b>9902020029</b> | Conversion of LT Line to HT Line i.e. removing of LT Line, Conductor, LT Shackle Insulator, LT Shackle Bolt, U-Clamps etc. and crediting removed material to store and providing HT Line Materials i.e. HT Conductor, V-Xarm, Pin Insulator, G.I.Pin etc. | 20  | Per Pole | 370     | Three hundred seventy only      | 7400   |
| 6 | <b>9902040001</b> | Erection of Stay set Complete as per drawing and specification with stay clamps, stay wire, turn buckle, guy insulators and cement blocks, including supply of Bolts & Nuts by the contractor.  | 380 | NO.      | 315     | Three hundred fifteen only      | 119700 |
| 7 | <b>9902040002</b> | Erection of earthing plate type Inclusive of coke, salt, water etc. as per drawing and specification.   | 420 | NO.      | 350     | Three hundred fifty only        | 147000 |
|   | <b>9906000002</b> | (A) Erection of guarding with cross arms bolts wire etc. complete as per specification for HT Line.   | 301 | Rmt .    | 58      | Fifty eight only                | 17458  |
|   |                   | (B) - Do - for LT Line.   | 0   | Rmt .    |         |                                 | 0.00   |
| 9 |                   | Erection of Transformer 10 KVA to 100 KVA with Double Pole Structure, Arrestors, Switches, Distribution box, Pipe wiring as per drawing and specification including 3 KG, Barbed wire by the contractor.  |     |          |         |                                 |        |



# Uttar Gujarat Vij Company Ltd.

|     |                   |   |     |       |        |                                       |                  |
|-----|-------------------|---|-----|-------|--------|---------------------------------------|------------------|
|     | <b>9902030003</b> | (A) 8 Mtrs. PSC Pole Structure.   |     |       |        | Five thousand three hun.sixty only    | 182240           |
| 10  | <b>9907000002</b> | Dismantling of Poles  | 34  | NO.   | 5360   | Four hundred sixty five only          | 22320            |
| 11  | <b>9907000009</b> | Dismantling of Conductor and crediting to RSO   | 48  | No.   | 465.00 | Six hundred twenty only               | 9300             |
| 12  | <b>9907000022</b> | Dismantling of Transformer center with PSC Poles and Fabrication with Crediting to RSO  | 15  | KM S. | 620.00 | Two thousand seven hundred fifty only | 11000            |
| 13. | <b>9501260021</b> | Additional cost for erection at pit in hard rock area for erection of Pole/Guy/earthing etc. as per std. covered against excavation at pit under normal soil for erection of pole , guy and earthing etc. | 800 | NO    | 230    | Two hundred thirty only               | 184000           |
|     |                   | <b>Remarks.</b><br>The all type of Materials with nut, bolts etc. will provided by UGVCL. The rates are Exclusive Nut, bolts etc.   |     |       |        |                                       |                  |
|     |                   | <b>TOTAL RS.(A)</b>   |     |       |        |                                       | <b>999979.00</b> |
|     |                   | <b>Bidder's offer (.....(+)......(-))</b>   |     |       |        |                                       |                  |
|     |                   | <b>Grand Total(C=A)+/-(A*B)</b>   |     |       |        |                                       |                  |
|     |                   | <b>GST (D=C X GST %<br/>(GST Rate .....%))</b>  |     |       |        |                                       |                  |
|     |                   | <b>SAC CODE.....</b>  |     |       |        |                                       |                  |
|     |                   | <b>Grand Total including GST (E=C+D)</b>  |     |       |        |                                       |                  |
|     |                   | <b>Final offer Rs.</b>  |     |       |        |                                       |                  |
|     |                   | <b>Final offer (Rs.in words)</b>  |     |       |        |                                       |                  |

The Bidder shall quote FIRM PRICES only. The prices quoted will not be subject to any escalation till completion of work.

The Above prices are inclusive of all taxes, levies Duties etc. Except Goods & Service Tax(GST) **GST will be paid extra as applicable from time to time on a given taxable goods and/or services.**

**NOTE:- Work for .....or within the jurisdiction of .....Division.**

Executive Engineer  
UGVCL, DO-2, Palanpur

SEAL & SIGNATURE  
OF BIDDER

NAME.....STATUS.....

NAME OF BIDDER COMPANY.....

## **GENERAL INSTRUCTION TO TENDERERS ::**

### **Pre-Qualification:-**

Tender fee +GST as applicable

- A). the contractor should be registered under the Goods & Service Tax. The contractor not Having GSTIN shall not be considered for acceptance of the Tender.

- B). PRICES:-** The Bidder shall quote FIRM PRICES only. The prices quoted will not be subject To any escalation till completion work. The above prices are inclusive of all taxes, levies Duties etc.except Goods & Service Tax (GST) will be paid extra as applicable from time to Time on a given taxable goods and/or services. Also please mention **SAC Code** and rate of GST as Applicable.

### **C). GOODS & SERVICE TAX(GST):- UGVCL GST Registration No. is 24AAACU6551F1ZI**

The firm prices are exclusive of Goods & service Tax as applicable. The amount and rate (%) of GST as applicable should clearly be indicated separately. (GST means all applicable Tax/cess under GST laws. GST Laws means IGST Act, GST (Compensation to the State for Loss of Revenue) Act CGST Act, UTGST Act and SGST Act-2017 and all related ancillary legislations).Contractor should charge GST in invoice at the rate as agreed to/mentioned in acceptance of tender only any deviation in the same shall not be accepted. Further, any additional liability of GST (later on due to wrong mentioning of GST rate, mis-interpretation of HSN/SAC Code etc;) over and above as charged in the invoice shall be borne by the contractors. However any refund received by the contractor on account of GST charged from the company; such refund shall have to be passed on to the company, along with interest if any. Such refund along with interest needs to be passed on suo-moto by the contractor. Further, the company has a right to recover the amount of GST along with penal interest at the rate of 15% per annum or interest/fees & penalty charges under GST Law, whichever is higher if GST charges is not paid/short paid to the Government or failed to upload the details or uploads inaccurate particulars on GSTIN portal by the contractor within the stipulated time limit.

**D). STATUTORY VARIATION:-** Any statutory increase or decrease in GST as applicable or in the event of introduction of new tax/cess or cessation of existing tax/cess subsequent to the offer if it takes place within the original contractual completion date will be to Company's account subject to the claim being supported by documentary evidence. However, if any decrease takes place after the contractual delivery date, the advantage will have to be passed on to COMPANY.

**E). PENALTYS FOR DELAYS:-** The delivery, erection and commissioning periods(as applicable) shall be guaranteed under penalty clause mentioned below. Any delay that may take place in erection and commissioning activities beyond contractual out of date shall be subject to penalty at the rate of 2% of the contract value (of delayed materials/works) per month or part thereof subject to a maximum of 10% of total contract value, Plus GST as applicable.

**Bidders shall have to furnish relevant documents for payment of GST as applicable along with each RA.Bill.**

**\*SPECIAL INSTRUCTION :-** With tender you are required to submit copy of EMD Receipt, Licence copy, Original Solvency Certificate, PAN Card copy/GST registration Certificate copy. If you are lowest than, you have to pay 5/10 % Security deposit of order value. Execute the

agreement, Indemnity Bond, Sub order may be issue after complete the above official tender formalities.

**1.0 Sealed Technical bids are invited for the work of erection of HT/LT line & T/c. at**

**Division office PALANPUR-II from the contractors/firms who have executed works of similar nature and magnitude successfully and who are registered under appropriate class.**

**2.0 Technical bid is to be submitted in a separate sealed envelope and supper scribing the envelope as "Technical Bid". Technical bid should be submitted with documents as under, failing which tender is liable for rejection.**

- (i) Solvency certificate issued from any Nationalized Bank amounting to sum equivalent of estimated cost(Minimum 10.0 Lacs)**
- (ii) Separate EPF code No. allotted by RPFC & Last Six month of current year EPF Challan paid copy is required.**
- (iii) Latest income tax clearance certificate.**
- (iv) Experience certificate as per requirement for erection of HT-LT line & T/C work by authorized officer of Distribution Company.**
- (v) Group Insurance copy of the insurance policy of the insured laborer's under W.C. Act.**
- (vi) Details of equipments available with the tendered.**
- (vii) Electrical contractor license as a when required.**
- (viii) Tools & tackle Certificate.**
- (ix) At least Rs. 10 Lacks turn over required in bank Statement.**
- (x) Proof regarding payment of Tender Fee and EMD.**

**(xi) UGVCL VENDOR REGISTRATION SHOULD BE ATTACHED WITH TECH. BID.**

| Sr.No. | Class of Vendor Regis. | Minimum Experience in years | Consider eligible for participation in the erection tender of HT/LT/TC  |
|--------|------------------------|-----------------------------|---|
| 1      | CLASS-A                | 5 YEARS                     | Can participate in tender of the erection work of HT/LT/TC line for <b>any amount tender</b> invited through limited/open/n-code by division/circle. Vendor registration mandatory.                     |
| 2      | CLASS-B                | 3 YEARS                     | Can participate in tender of the erection work of HT/LT/TC line for any amount up to <b>Rs. 10 lacs</b> , tender invited through limited/open/n-code by division/circle. Vendor registration mandatory. |
| 3      | CLASS-C                | 1 YEARS                     | Can participate in tender of the erection work of HT/LT/TC line for any amount up to <b>Rs. 5 lacs</b> . tender invited through limited/open/n-code by division/circle. Vendor registration mandatory.  |

The above documents should be submitted in form of attested true copies along with technical bid.

- 3.0 Earnest money deposit of Rs. 10000\_ should be deposited in Demand Draft in favor of UTTAR GUJARAT VIJ COMPANY LIMITED drawn on any scheduled Bank, payable at PALANPUR
- 4.0 Bidders should complete the tender documents in all respects and they are to be signed With Company's Seal on all pages. Incomplete and conditional tenders shall not be considered.
- 5.0 UTTAR GUJARAT VIJ COM.LTD. Reserves the right to split up the work covered in the scope of this contract amongst more than one contractor.
- 6.0 Intending bidders should submit their tenders after studying all tenders documents carefully and visiting the Site for satisfying themselves of actual site conditions, location and accessibility of site and nature, extent of The work involved etc. Submission of tenders implies that bidders have obtained all necessary Information and other data required for executing the work. No claim for extra charges on account of any misunderstanding or otherwise will be allowed.
- 7.0 All approaches to the site shall be in the scope of bidders.
- 8.0 Bidders will not be allowed to give sub-contract of the works awarded to him for any, reasons what So ever without permission of the Engineer-in charge.
- 9.0 In the experience certificate, contractor has to furnish the details of similar works executed by him Along with the list of equipments, tools and tackles and manpower available with him along with

The details of the same, which he intends to deploy on site of the work.

- 10.0 After opening of "Technical bid" no revised price bid from any bidders will be accepted.
- 11.0 Price quoted shall be firm, till overall completion of the work, under contract and there will not be Any price escalation.
- 12.0 Date of opening of "Price Bid" will be intimated later on to those Bidders who are qualified in technical bid. "Price bid" of only qualifying bidders on the basis of Technical bid shall only be opened. Price of bidders, Who are not qualified technically as per requirement of technical bid shall not be opened.
- 13.0 Offers shall be valid for the period of 120 days from the date of opening of price bid. Tenders shall Not withdraw tenders during the validity period, failing which their EMD shall be forfeited during The said period of 120 days.
- 14.0 Above SOR rate includes nut & bolts appropriate size & quality.
- 15.0 Cement will be issued as per Company existing rates.
- 16.0 Materials will be issued strictly as per requirement & not in lot
- 17.0 Concrete slabs will be supplied from our store.
- 18.0 "0.50 "ps. per cu ft will be paid below the 2 feet or ground level for the rocky soil against the Certificate of Dy. Engineer in charge/verification by concern D.E. tech of Palanpur-II div.
- 19.0 Rs.50/- will be charged extra if tender will be sent by post.
- 20.0 Due care should be taken while doing the work, If any accident will occurred to your employee/personal While working than it will be your responsibility. Company will not be responsible for payment of any Claims due to such accident.
- 21.0 Contractor should observe labour laws as per prevailing rules of Govt. of Gujarat.
- 22.0 Tree Branches should be trimmed such a way that distance of nearby conductor and trimmed branch must remain 5' Horizontal and 5' vertically.
- 23.0 Pin binding of Pin Insulator must be with double strand of conductor.
- 24.0 Each and every shackle pole must be re jump red with formation of 'D'.
- 25.0 Old material removed from line (If any) must be credited in Divn. Store.
- 26.0 All tools, tackles used in maintenance will be provided by contractor.
- 27.0 Transportation of labour for the work should be done by contractor.
- 28.0 If necessary order of one S/Dn. Will be transferred to other S/Dn. depending upon requirement of UGVCL.
- 29.0 The clearance as per I.E rules must be maintained.



30.0 For any dispute jurisdiction of legal will be at PALANPUR. Division No-II

31.0 If the Tendered/Bidder/Contractor would stand lowest while opening of the tender, He will be intimated by the competent authority with separate letter & will have to provide their skilled Labours gang within week time & He would have to report in written through respective SDO. Otherwise Second lowest bidder will be given chance at the rate of lowest-1.

32.0 The contractor should have to keep permanently skilled labors gang in respective Sub-Division for each annual order. If Concern SDO will report that Erection Work is delayed due to non availability of skilled labour, penalty will be deducted as per rules.

33.0 All the works shall be carried out as per specifications attached with the tender and relevant Indian Standard issued by Bureau Indian Standards. All materials procured should be confirming to relevant Indian Standard issued by Bureau of Indian Standard.

34.0 Tenders, who do not fulfill all or any of the conditions of the tender of incomplete in any respect, Are liable to rejection.

35.0 UTTAR GUJARAT VIJ COMPANY LTD, reserves the right to reject any or all Tenders without assigning any reason thereof.

**Signature of Bidder**

**Executive Engineer**  
**U.G.V.C.L., DO -II, PALANPUR.**

### **SPECIFICATIONS:**

For erection work of 11KV/22KV H.T. transmission lines, LT Distribution lines and transformer sub-stations

1. Erection of Hotlines:

(a) Site clearing and tree cutting will be done by the contractor at his cost. The company will assist the contractor in getting necessary permission for tree cutting etc. Any claim for compensation in above respects will have to be born by the contractor.

(b) Fixing of positions:

The position of poles structure guys and earthings will be fixed by the department and shown to the contractor. He should adhere to these locations in all circumstances unless directed by the department to make any change.

(c) Pole setting:

Where poles are set in good solid ground the depth of pit shall be 1/6th height of the pole and for grounds of any other nature depth of pit shall be decided by the Department. The poles and guys must not be set at the edge of cuts or embankments where the soil is liable to be washed or eroded out. Such settings should be avoided. While back filling the earth must be packed tight and in no case must earth be dumped of a greater depth than our inches with out being rammed hard before the next layer is thrown in? The cost of damage done to the pole during erection will be recoverable from the contractor no pole which is out of plumb shall be accepted for recording the measurement for work carried out. The poles once handed over to the contractor will be in his safe custody till erected and he is liable compensate to the company the full cost of pole along with supervisor changes if the pole is broken during erection, or stolen from his custody. He should be able to render full amount of the poles entrusted to him whenever the supervising officer demand to scrutinize the same.

(d) Erection of complete single structure:

Erection of single pole structure comprises of excavations of pit and refilling of earth, erection in position of 28 to 33 PSC pole, 60 lbs/ yds to 90 lbs/30 to 42 long rail or suitable size girder or any other suitable pole, fitting of clamps and cross arms, fitting of insulators etc. complete as per drawing, inclusive of painting numbering fixing of caution board ant climbing device.

(e) Special two pole structure such as for HT line tapping railway crossing any other HT LT or telephone line crossing terminal, structure, structure for transformer sub-station comprises of excavation of suitable pits and refilling of earth erection in position of two Nos. 28 to 33 PSC poles 90-lbs/30 to 42 long rails of any other suitable poles fitting of clamps and cross arms, bracing cross bracing etc. as per drawing exclusive of mounting transformer but inclusive of mounting D.O. fuses painting numbering fixing of caution Board and anti-climbing device. The D.P. must be in plum. Special structure of included will be erected as per drawing supplied.

(f) Stringing of conductors:

This includes stringing of stranded and solid bare conductors with fitting of necessary HT LT pin and strain insulators; binding on insulators jumpering jointing, the jointing in HT line will be done by twisting sleeve joints as per standard practice, care must be taken in handling the conductor to protect against cuts,

Scratches or kinks. The conductor must not be drawn over rough or rocky ground when it is liable to be damaged Aluminum and ACSR conductors must be drawn on wooden or Alum. Pulleys only. The white conductor or coil must not be dropped wastage and cutting should be avoided as far as possible .Not more than 5% scrap will be

accepted in the material account to be submitted by the contractor. It is important that the conductor must be drawn to the proper tension. The sag and spans will be maintained as per drawing and design. The cross arm and insulators must be so fixed that neither tilts or bends in position. The span and sag however may vary according, to sizes of poles available but these dimensions will not be specified by the field Engineer before Commencement of work. The sagging should be uniform for all conductors and uneven sagging will not be allowed. Stringing of V.I.R. line: This consists of VIR wire of different sizes such 3/20 to 7/16 complete with G.I. bearer wire and reel insulators interspaced at a distance of 3 ft.

(g) **Erection of stay set:**

The erection of stay set comprises of excavation of suitable pit of 4 depth burying stay rods anchor plate fixing of stay clamp on pole fixing of turn buckle, binding of G.I. stay wire. The stay insulators must be inserted in the stay wire on all stays as per drawing. The wrapping of the guy wire strands at both ends and at stay insulator must be even and must be present neat appearance and good workmanship. No stay should be left loose but should be tight and straight to withstand any cyclone or sand storm.

(h) **Earthing:**

The arrangement shall be of pipe type earthing as indicated in the drawing. The earthings are to be done at places as indicated in the pole schedule or as selected by the field Engineer. The coke and salt will have to be supplied by the contractor at his cost. Size of pit 2"x2"x6" Mixture of salt and coal dust 5kg. Each total 10kg.

(i) **Guarding:**

The guarding will have to be provided between crossing of HT and LT lines below all the railway crossings at the crossings of telephone or telegraph lines and such of places as indicated by the department. The work comprises of fixing of guard, cross arms, eye bolt, and guard cradle as per design, GI cross lacing wires complete / any special type of guarding if required will be designed and erected by the department. Bridling cross arms must be used where the HT line crosses the road, a clearance of 20' must be available for all Road crossings. The poles for road crossings must be contracted.

(j) **Painting and numbering:**

Rail poles and girder poles shall be given one coat of approved red lead paint and two coats of approved allu. Paint. All steel mounting also painted in a manner shown above. The bolts and nuts shall be dipped in anti corrosive oil before insertion. The lower position of steel poles up to 3 feet above ground level shall be cleaned of all dust. This surface should be given a base coat red lead and an additional coat of block bituminous paint before inserting in the ground The paints will be supplied by the contractor and should be Jenson Nicholson or Asian Paints or such other well known make and will be got approved from Executive Engineer prior to starting work. All poles should be numbered in block figures of 3" size with a good paints. The paint for numbering should be of weather proof type and got approved in advance.

(k) **Concreting:**

Brickbat Cement Concreting: Cement concrete for concreting of poles and stay rods should be one part cement, three parts of specified quality sand and six parts of burnt brick bats (1:3:6) The concreting should be done on all strain angle ,deal end D.P.Structure, Road and Telephone crossings and as directed on other locations.

**(l) Muffling:**

Concrete for Muffling of poles and stay rods should be cement one part sand three parts and six parts metal (1:3:6) muffling is not to be done for PSC poles. Sand shall be clean and composed of hard siliceous grains; it shall be free from clay or organic matter. Metal should be having sound hard and durable stone size  $\frac{1}{2}$ " to  $\frac{3}{4}$ " sieve.

**(m) Mixing of concrete:**

Unless otherwise specified the concrete shall be in above proportion and should be thoroughly mixed at least three times in dry state before water is added and as far as possible a fairly wet mixture must be used. All concrete must be mixed on water tight platform. In any case, the work when finished must be absolutely true inline and level and finished off smooth .One finishing coat, of cement plaster should be applied on outer surface of the muffling, the concrete block when slightly dried should be kept wet continuously for period of 10 days. The locations for concreting will be decided by the Engineer in charge and the contractor will follow his instructions scrupulously. If the concreting work is not found as per the specification and quality, the same is liable to be rejected. The brick bat concreting or cement concreting work has to be done. In the presence of company representative only and work done in his absence will be rejected and no payment made therefore. The contractor will be supplied cement by the department and the cost of the cement will be recovered from the contractor at the rate of Rs. \_\_\_ per metric ton. All the empty bags will have to be returned to department in good condition otherwise a recovery of Rs.1.00 per bag will be made. The sand, metal brick bats shall be supplied by the contractor. The normal size of concreting of pole will be 5" x2'x2  $\frac{1}{2}$ ' that for stay 2x2x2' Muffling for poles shall be 12" dia 2"-0" (1' above and 1' below ground ) Muffling for stay shall be 12" dia x 2".0' (1' above and 1' below ground ) The concreting and muffling shall be carried out by the contractor in presence of field Engineer or his representative to ensure that correct quantities are used.

**2. TRANSORMER CENTRE:**

The transformer centre will be of outdoor type on two pole structure as per standard drawing and comprises of:

1. One set of H.T.D.O. fuses.
2. 11/22 KV 25 to 1000 KVA transformer complete with its accessories.
3. One set of HT lightening arrestors.
4. One set of LT lightening arrestors.
5. One dist Box pipes, VIR wires, cross arms and bracings earthing as per drawing etc..
6. Stays with insulators, painting numbering dangers board, anti climbing device. The independent separate pipe type earthings should be provided on either side of the T/C each consisting of one or more earth connections from lightening

arrester's transformer neutral transformer tank dist. Box etc... The cost of damage done to the transformer is recoverable from contractor.

**GENERAL:**

The work should be strictly as per specifications and approved designs of the company. The inferior and unsatisfactory work is liable to be rejected. The detailed specifications and structural drawings can be supplied for reference at the request of contractor. The work will have to be carried out as per programme laid down by department and under the entire instruction of field engineers and contractor should employ supervisor who could supervise the works throughout and he should remain present on site. No tools will be supplied by the department. The work is found inferior and not up to standards of the company is liable to be rejected at the risk and cost of the contractor. Any expenditure incurred for rectification work carried out departmentally or by employing harmony labour will be recovered from his R.A. Bills of the contractor if the contractor fails to rectify the inferior work done by him. Contractor will have to submit the certificate of work of the 2nd class wireman under whose supervision the work has been carried out.

**IMPORTANT:**

Before starting the work (new, alteration or addition) and during the works the contractor must obtain line clearance wherever necessary for the concerned officer of this department or other department. For any damage done to the men or materials of property due to non-observance of rules, the responsibility will be of the contractor.

**Executive Engineer**  
**U.G.V.C.L., DO -II, PALANPUR.**

**SIGNATURE OF THE CONTRACTOR.**

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

**UGVCL**  
**Uttar Gujarat Vij Company Ltd.**

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