

**DKTE CENTRE OF EXCELLENCE IN NONWOVENS,  
TEXTILE & ENGINEERING INSTITUTE,**

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**Project under Technology Mission on Technical Textiles  
(TMTT), promoted and supported by Ministry of Textiles,  
Government of India**

**TENDER DOCUMENTS FOR THE WORK OF**

Supply, erection, testing & commissioning of 1500 KVA Transformer Centre including all the associated works at DKTE COE site, Plot no.3, ShriLaxmi Co-Op. Industrial Estate Ltd., Hatkanangale, dist. Kolhapur-416 109, Maharashtra.

Ph.no. (0230) 2366352/54.

Email:-[dktecoe@gmail.com](mailto:dktecoe@gmail.com)

Website:-[www.dktecoenonwovens.in](http://www.dktecoenonwovens.in)

**ELECTRICAL ADVISOR**

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## PRINCIPAL

**DKTE CENTER OF EXCELLENCE IN NON WOEVENS**

Site: Plot No. 3, Shri. Laxmi Co-Op.Industrial Estate  
Ltd.,Hatkanangale,Dist.:Kolhapur.416109.(Maharashtra)  
Phone: (0230) 2366352/54, Website: [www.dktecoenonwovens.in](http://www.dktecoenonwovens.in), Email : dktecoe@gmail.com

Sealed Item rate tenders are invited for the following works from Reputed, Experienced or Registered,Licence holder Contractors.

Sr . No.	Name of the Work	Estimated Cost In Rs.In Lakhs	Earnest Money DepositIn Rs.	Period of Work Complete	TenderForm Cost In Rs.
1.	Supply, erection, testing & commissioning of 1500 KVA Transformer Centre including all the associated works at DKTE COE,SiteHatkanangale.	42.50	42,500=00	2 Months	2000=00

1. Blank Tender Forms, will be issued at DKTE COE at Rajwada between 20<sup>th</sup> May 2014 to 28<sup>th</sup>May 2014 onpayment of tender form fee and fulfilling eligible criteria as per tender form.
2. Sealed tenders will be accepted in DKTE COE office on or before Wednesday,28<sup>th</sup>May 2014 up to 5.00 P.M.Tender will be opened on Friday, 30<sup>th</sup> May, 2014 at 4.00 P.M. in the presence of tenderers. If any change in the date on tender opening it will be informed.
3. DKTE COE reserves the rights to reject any or all tenders without assign any reasons.
4. This Tender Notice & Tender Documents are also available at our website [www.dktes.com](http://www.dktes.com)

(Prof.Dr.P.V.Kadole.)  
PRINCIPAL & DIRECTOR.

(Hon.Shri.Prakash K. Awade)  
CHAIRMAN

## DETAILED TENDER NOTICE TO CONTRACTOR

PRINCIPAL, DKTE TEXTILE & ENGINEERING INSTITUTE, ICHALKARANJI invites sealed tender on two envelopes system on prescribed formats from bonafied reputed experienced or Registered Electrical Class I contractors who are qualifying following "Essential Qualifying Criteria". Detail of execution of work is mentioned in Tender Notice.

Tender documents can also be downloaded from DKTE website [www.dktes.com](http://www.dktes.com) and in such a case, the tenderer shall deposit the cost of tender documents along with submission of the tender, failing which his tender will not be opened. The cost of tender documents shall be deposited in the form of demand draft/pay order and enclosed in the envelope containing the Earnest Money Deposit. Tenderers are advised not to make any corrections, additions or alterations in the downloaded tender document. In case, any correction, additions or alterations in the downloaded standard documents are made, such tender shall not be considered.

### Essential Qualifying Criteria

1. The Contractor should possess the experience of having successfully completed similar works during the last 2 years (ending last day of 31<sup>st</sup> March every year.) which should be following.

i) **Two similar completed works each costing not less than amount equal to 90% of the estimated cost.**

2. **The Tender should be Government approved Contractor of Maharashtra State and the approved list of MSEDCL.**

3. **Competency worthiness certificate from their client for satisfactory work completion should be submitted by the tenderer.**

4. Contractor should have permanent qualified and experienced Engineer to supervise and execute the job as per tender to satisfy consultant and client. If the contractor fails to do so, the DKTE COE authorities will appoint the engineer at the cost of contractor.

5. Certificate from Nationalized bank that party has sound financial capability to execute the job.

6. The financial turnover during the last two years should be at least 90% of the estimated cost.

**Notes:-** the financial turnover shall be judged from ITCC or Annual reports including Profit and Loss A/c.

7. The Contractor should have its net worth not less than 10% of the estimated cost of the tender. This will be judged from the audited balance sheet of the last financial year ending on a date not prior to 18 months from the due date of submission of the tender.

8. The contractor should submit performance certificate in reference to S. No.1 above from clients for having successfully completed similar works in the last two years.

9. There should not be any unsatisfactory performance report of the contractor from any source.

10. all above documents should be submitted by the tenderer in separate envelope to DKTE COE and

1. Name of Work:-

**supply, erection, testing & commissioning of 1500 KVA Transformer Centre including all the associated works at DKTE COE, PLOT NO.3,SHRI.LAXMI CO-OP.INDUSTRIAL ESTATE LTD.,HATKANANGALE**

2. Cost of each blank tender form :- Rs.2000/-

(Non Refundable)

3. Estimated Cost of Works :- Rs.42.50Lakhs

4. Earnest Money :- Rs.42500.00

5. Initial Security Deposit (1%EMD + 2%SD) :- Rs.1,27,500.00

6. Date and time upto which blanktender forms will be issued. :-20<sup>th</sup>May.2014 to 28<sup>th</sup> May.2014.

7.Date& time of receipt of sealed tender:-28<sup>th</sup>May 2014,5.00pm

8. Probable date and time of opening of tender. :-30<sup>th</sup>May. 2014,4.00pm

9. Validity Period :- 120 Days

The offer of the contractor shall remain valid for acceptance for a minimum period of 120 days from the date fixed for opening of Envelope No. 2 (Main Tender) and thereafter until it is withdrawn by the contractor by notice in writing duly addressed to the authority opening the tender and sent by Registered Post Acknowledgement due.

10. The tender notice shall form a part of the contract agreement.

11. The tenders are invited on Company design only.

12. The blank tender forms will be sold only to the eligible Contractors and above on production of original or attested copy of valid registration or renewal certificate at the time of applying for issue of blank tender forms otherwise blank tender forms will not be issued to them.

13. The tenderer if firm or company shall in their forwarding letter mention the names of all the partners of the firm or the company (as the case may be) and the name of the partner who holds the power of attorney if any, authorizing him to conduct transaction on behalf of the firm or company.

14. Right is reserved to revise or amend the contract documents fully or part thereof prior to the date notified or amended for the receipt of tender. Such deviations/amendments

if any shall be communicated in the form of corrigendum or by a letter as may be considered suitable.

15. Right is reserved to or rejects any or all tenders without assigning any reason thereof.

16. Tenders that do not fulfill all or any conditions or are incomplete in any respect are liable to summary rejection.

## **2) EARNEST MONEY:-**

1. Earnest money shall be acceptable in form of Demand Draft in favour of DKTE COE IN NON WO VENS payable at Ichalkaranji.

2. Tender of those who do not deposit earnest money in the above acceptable form shall be summarily rejected.

3. The amount of earnest money will be refunded to the unsuccessful tenderer on deciding about the acceptance or otherwise of the tender or on expiry of the validity period whichever is earlier.

In case of successful tenderer it will be refunded on his paying the initial security deposit and completing the tender documents or will be transferred towards a part of security deposit to be paid after awarding of the work. If successful tenderer does not pay the security deposit in the prescribed time limit and complete the agreement bond, his earnest money will be forfeited.

### **3) TENDERING PROCEDURES:-**

#### **1. Opening of tenders:-**

On the date specified in the tender notice following procedures will be adopted for tender opening of the tender.

#### **Envelope No. 1:-**

First of all, Envelope No. 1 of the tender will be opened to verify its contents as per requirements. If the various documents contained in the envelope do not meet the requirements of the Company, a note will be recorded accordingly by the tender opening authority and the said tenderer's Envelope No. 2 will not be considered for further action but the same will be recorded.

#### **Envelope No.2**

This envelope shall be opened immediately after opening of Envelope No.1, only if contents of Envelope No. 1 are found to be acceptable to the DKTE COE, the tendered quoted rate in Schedule 'B' shall then be read out.

#### **2. Security Deposit: -**

2.1 The successful tenderer shall have to pay 3% (including 1% EMD) of value of work by Demand Draft of a nationalized/ Scheduled Banks in favour of DKTE COE IN NON WOVENS Payable at Ichalkaranji.

2.2 All compensations or other sums payable by the Contractor under the terms of this contract or on any account may be deducted from his security Deposit or from any sums which may be due to him or may become due to him by government on any account and in the event of security being reduced by reason of any such above noted deductions, the Contractor shall within 10 days of receipt of notice of demand from the engineer-in-charge make good the deficit.

3.3 There shall be no liability on the Company to pay any interest on the security Deposited by or recovered from the Contractor.

3.4 The security Deposit shall be refunded after One year Twenty Eight days from satisfactory commissioning of Transformer Centre i.e., defect liability period for this contract.

## TENDER FOR WORKS

I/ We here by tender for the execution for the DKTE COE IN NON WOEVENS, HATKANANGALE, Dist. Kolhapur, Maharashtra (herein before and herein after referred to as "Company") of the work specified in the under written memorandum within the time specified in such memorandum at \_\_\_\_\_.

(in words \_\_\_\_\_)

**Item rate quoted** in BOQ entered in schedule 'B' (memorandum showing items for work to be carried out) and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to the annexed conditions of the contract.

### MEMORANDUM

**Name of Work:-**

**supply, erection, testing & commissioning of 1500 KVA**

**Transformer Centre including all the associated works at DKTE COE IN NON WOEVENS, Plot No. 3, Shri Laxmi Co-Op. Industrial Estate Ltd., Hatkanangale.**

- a) Estimate cost : Rs.42.50 Lakhs
- b) Earnest Money : Rs.42,500.00
- c) Security Deposit : Rs.1,27,500.00
- i) Demand Draft (2% in addition to EMD) :Rs.

\_\_\_\_\_

Total : Rs.

e) Time allotted for the work from the date of written order to commence. 1 Months

2. I/We agree that the offer shall remain open for acceptance for a minimum period of 120 days from the date fixed for opening of the tender.

The amount of earnest money shall not bear interest and shall be liable to be forfeited to the Company, should I/We fail to (i) abide by the stipulations to keep the offer open for the period mentioned above or (ii) sign and complete the contract documents as required by the engineer and furnish the security deposit as specified in item (d) of the memorandum contained in paragraph 1 above within the time limit laid down in clause of the annexed General conditions of contract. The amount of earnest money may be

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adjusted towards the security deposit or refunded to me/us if so desired by me/us in writing, unless the same or any part thereof has been forfeited as aforesaid.

4. Should this tender be accepted I/We hereby agree to abide by and fulfill all the terms, and provisions of the conditions of contract annexed hereto so far as applicable and in default thereof to forfeit and pay to DKTE COE the sums of money mentioned in the said conditions.

Contractor

Signature of the Contractor

Address \_\_\_\_\_ before submission of the  
\_\_\_\_\_ tender

Telephone No.-

Fax No.-

Email No. -

Date the \_\_\_\_\_ day of \_\_\_\_\_ Year \_\_\_\_\_

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

Signature of witness

(Occupation) \_\_\_\_\_ to contractor's signature

The above tender is hereby accepted by me for and on behalf of  
the DKTE COE.

Date the \_\_\_\_\_ day of \_\_\_\_\_ Year \_\_\_\_\_

Contractor

Principal



## General Terms & Conditions

### Prices Basis:

1) The quoted prices are for supply, erection (including all connected civil works), testing at works (in the presence of our representatives, EB authorities) and at site before commissioning of 1500 KVA Transformer Center at DKTE COE, Laxmi Co-op. Ind. Estate, Hatkanangale.

**A)** The rates in the schedule are inclusive of all taxes, cesses, insurance, Transportation, erection and commissioning etc.

**B)** The price shall be firm till the execution / completion of the order and no variation clause accepted.

3) Delivery of all material F.O.R. site, Laxmi Co-op. Ind. Estate, Hatkanangale.

4) Testing charges at works including making arrangement for the traveling and lodging of our representatives, EB authorities & other incidental expenses involved will be borne by contractor

5) Transporting of the equipment to site, Forwarding, Handling, loading & unloading charges and all Taxes, VAT, ED, Duties included in quoted price.

6) Service tax shall be paid by contractor for the labour works involved BOQ at site.

- Labour work of commissioning of all equipment at works.

### Delivery & Period of Completion :

To be completed within 2 months from the date of receipt of order. Work to be carried out and commissioned within this stipulated period only. If the tenderer is not able to complete the work within stipulated period, then the tenderer should request in writing giving the reasons of delay and get the work period extended in writing from DKTE COE.

### Penalty:

Penalty will be charged to the account of tenderer @ of 1 % of the total cost or part thereof per week for delay in completing the work beyond the period of 2 months from the date of order subject to limit of 5% of contract value.

### Bonus :

Bonus early complete of work contractor is eligible for 0.5% of contract value per week or part thereof subject to limit of 3%.

### Terms of Payment :

Tenderer has to give bank Guarantee ( Of Nationalized bank / Govt. Bank ) for the advance amount and capability to complete the work within the stipulated period of 2 months and the acceptance of the penalty clause in case of delay for the completion of job.

**A)** 20 % Advance of the order value shall be paid along with the purchase order. This 20% advance will be released against submission of BG for the equivalent amount and valid for the total period of execution. (including delay period).

**B)** 60 % against supply of material i.e. Transformer, VCB & Metering Cubical, HT/LT cable at site and bills of its supply value duly and jointly approved by Electrical advisor

and DKTE COE representative. (Letter of demand of money by Tenderer). 60% advance for remaining item to be paid to the Tenderer after completion of satisfactory erection & testing work.

**C)** 10 % against submission of bill of erection by joint approval of electrical advisor and DKTE COE representative & MSEDCL authorities.

**D)** 10 % after successful commissioning of Transformer Centre along with permission of Electrical Inspector and MSEDCL authorities to charge the Transformer and furnishing PBG for the last 10% payment which should be valid 18 months from the date of handing over to the Transformer and system to the client.

**E)** All the work pertaining to the approval from this statutory authorities of the relevant Government departments on this work are to be included in the scope of the successful tenderer and all the expenses and incidental charges are to be borne by the successful tenderer. Official Fees will be paid by DKTE COE.

**F)** All the above payments will be made subject to deduction of income tax @ 2% under section 194C(1) d of the income tax Act.

**Inspection:**

On readiness of the equipment the same shall be offered for inspection by tenderer giving one week advance intimation to enable us to depute our inspecting officer to inspect the equipment.

**Insurance :**

For any material purchased by tenderer including the transformer, the insurance thereof including the risk, liability of the men at work, tools, tackles and machinery to be used by the tenderer, will be at tenderer's risk.

**Make & Specification :**

As specified by S.E. MSEDCL Kolhapur , S.E. MSETCL, Karad & S.E.(TQA) MSEDCL, Pune. For details, visit web site of concern authorities for 11 kV line and metering cubical.

All other equipment supplied should be approved make and as per the specification mentioned in tender. BOQ. All material that will be used should be approved before procurement. Clients & electrical advisors decisions regarding make & specifications of material is final and binding.

**Attestation:**

To be done on all documents, true copies certificates to be tendered with seal while submitting tender.

Correction should be initiated with written intimation to DKTE COE authorities.

## Instruction to Tenderer

- 1) Jurisdiction of this tender will be Ichalkaranji only.
- 2) Tenderer to visit site and assess the site working condition before submitting tenders.
- 3) Schedule of quantities is attached with tender, variation in Quantities may occur and payment will be done on only material consumed and at actual. No price escalation will be permitted for quantities which may exceed over and above the quantities maintained in the BOQ upto  $\pm 30\%$ .
- 4) Any error differences if found after scrutiny of tender the same shall be corrected by the tenderer in presence of the authorized representatives of the client and advisor.
- 5) Validity of value of tender will be for the whole period of the execution after acceptance of tender.
- 6) Tenderer whose tender will be accepted will have to enter into an agreement of Rs. 100/- stamp paper.
- 7) Service Tax if applicable has to be charged in the bill & the same will be paid by the contractor.
- 8) Sub-letting of contract will not be allowed without written permission from DKTE COE.
- 9) Tenderer to prepare before beginning of work Bar/Part Chart and same shall be got approved from Electrical Advisor/ DKTE COE authorities.
- 10) Third party insurance, damage to public properties insurance, insurance of injuries accidents such as workmen and public during actual work will be liability of tenderer.
- 11) commencement time and delays should be notified with the advisor of the DKTE COE company. Possession of site, Way leave is responsibility of tenderer.
- 12) Measurement of Quantities of work material will be done by DKTE COE representative and advisor and tenderer for approval of bills for payment. TDS, taxes payable will be deducted before payment of bill by company and certificates to the effect will be issued by the company to tenderer.
- 13) If for the same reason tenderer fails to complete the job in stipulated period the same shall be got done by the DKTE COE authorities at risk and cost of tenderer. Additional 20% of cost over and above the accepted value of the tender will be charged in addition to the penalty amount.
- 14) All papers submitted by the tenderer should be invariably initiated and stamped by the tenderer.
- 15) Tender forms completed in all respects to be submitted to  
DKTE CENTRE OF EXCELLENCE IN NON WO VENS,  
C/o. Textile and Engineering Institute,  
P.B.No.130, Rajwada, Ichalkaranji-416 115.
- 16) The DKTE COE reserves the right to reject any tender without giving any reason and is not bound to accept the lower or any tender.
- 17) DKTE COE reserve right to entrust the work to no. of contractors on lowest bid rates and reserves the right to procure any material or equipment mentioned in BOQ directly.

**Note :**

- 1) Civil Work connected with Transformer, Panel Erection and cable laying is in the scope of tenderer as per specification of MSEDCL, Kolhapur.
- 2) Any other work not specified in this tender and BOQ, but which are required to be carried out for completing the project in all respect and to the requirement of the statutory authorities and the MSEDCL etc are to be carried out without extra cost.
- 3) All approvals of following authorities is in the scope of tenderer.
  - a) S.E. MSEDCL, Kolhapur.
  - b) S.E. MSCTCL, Karad.
  - c) S.E. (TQA) MSEDCL, Pune
  - d) Electrical Inspector, Kolhapur.
  - e) Any other Govt. Authority
- 4) Drawing are available with the Advisor's office for inspection & Clarification.
- 5) Rate Quoted should be inclusive of all duties, taxes, levies FOR Site.
- 6) All material should be approved by MSEDCL Kolhapur authorities, for 11 KV line & metering cubical & remaining from Electrical Advisor & DKTE COE.
- 7) All tools, tackles, equipments, transportation, manpower etc. is in the scope of tenderer.
- 8) Right of Rejection reserved
- 9) As built drawing in hard copies ( 5 sets) and in soft copies ( either in the forms of CD or thumb drive) to be furnished by the successful tenderer and final payment will be released only after fulfilling this requirement.

IMP. – All drawing and certificates of equipments and final electrical layout and single line diagrams should be submitted by the tenderer for approval of concern MSEDCL, Kolhapur authorities and Electrical Inspector, Kolhapur before supply of material and installation at site. This work is in the scope of contractor.

## FORM B-1

### ITEM RATE TENDER AND CONTRACT FOR WORKS

#### General Rules and directions for the Guidance of Contractors

1. All works proposed to be executed by contract shall be notified in a form of invitation to tender passed on a board hung up in office of the Principal and signed by the Principal, DKTE Centre of Excellence in Nonwovens, Textile and Engineering Institute, "Rajwada", Ichalkaranji-416115, Dist.Kolhapur. This form will state the work to be carried out as well as the date for submitting and opening tenders, and the time allowed for carrying out the work, also the earnest money to be deposited with the tender and the amount of security deposit to be deposited by the successful tenderer, and the percentage, if any, to be deducted from bills. It will also state whether a refund of a quarry fees, royalties, dues, and ground rates and any other documents copies of the specifications, designs and drawings, estimated rates, scheduled rates and any other documents required in connection with the work shall be signed by Principal for the purpose of identification and shall also be open for inspection by the contractors at the office of the Principal, DKTE Centre of Excellence in Nonwovens, Textile and Engineering Institute, "Rajwada", Ichalkaranji-416115, Dist.Kolhapur during office Hours.

Where the works are proposed to be executed according to the specifications recommended by a contractor and approved by a competent authority on behalf of the company such specifications with designs and drawings shall form part of the accepted tender.

2. In the event of the tender being submitted by a firm, it must be signed by each partner thereof, and in the event of the absence of any partner, it shall be signed on his behalf by a person holding a power of attorney authoring him to do so. 2(A). i) The Contractor shall pay along with the tender the

sum of Rs. \_\_\_\_\_

(Rs. \_\_\_\_\_)

as and by way of earnest money by **demand draft in favour of DKTE COE IN NONWOVENS, payable at ICHALKARANJI** of any Nationalized/ Scheduled bank for the like amount in favour of the **PRINCIPAL**,

\_\_\_\_\_.

The said amount of earnest shall not carry any interest whatsoever.

ii) In the event of his tender being accepted, subject to the provisions of sub-clause (iii) below, the said amount of earnest money shall be appropriated towards the amount of security deposit payable by him under conditions of General Conditions of Contract.

18) If, after submitting the tender, the contractor withdraws his offer or modifies the same, or if, after the acceptance of his tender the contractor fails or neglects to furnish the balance of security deposit without prejudice to any other rights and powers of the Company, hereunder, or in law, Company, shall be entitled to forfeit the full amount of the earnest money deposited by him.

3. Receipts for payments made on account of any work, when executed by a firm, should also be signed by all the partners except where the contractors are described in their tender as a firm, in a which case the receipt shall be signed in the name of the firm by one of the partners, or by some other person having authority to give effectual receipts for the firm.
4. Any person who submits a tender shall fill up the usual printed form starting at what item rates specified in Schedule 'B' (Memorandum showing items of work to be carried out) he is willing to undertake the work. Only one scheduled rates shall be named. Tenders which propose any alteration in the work specified in the said form of any sort will be liable to rejection. No printed form of tender shall include a tender for more than one work, but if Contractor who wishes to tender for two or more works they shall submit a separate tender for each. Tender shall have the name and the number of work to which they refer written outside the envelope.
5. The PRINCIPAL or his duly authorized assistant shall open tenders in the presence of the contractors who have submitted their tender or their representative who may be present at the time and he will enter the amounts of the several tenders in a comparative statement in a suitable form. In the event of a tender being accepted, the contractor shall, for the purpose of identification, sign copies of the specifications and other documents mentioned in Rule 1. In the event of tender being rejected the divisional officer shall authorize the treasury officer receipt for the refund of the money.
6. The officer concerned to dispose off the tenders shall have the right of rejecting all or any tenders.
7. No receipt for any payment alleged to have been made by a Contractor in regard to any matter relating to this tender or the contract shall be valid and binding on the company unless it is signed by the Managing Director.
8. The memorandum of work to be tendered for and the Schedule of materials to be supplied by the company and their rates shall be filled in and completed by the office of the Managing Director before the tender form issued. If a form issued to an intending tenderer has not been so filled in and completed, he shall request the said office to have this done before he completes and delivers his tender.
9. All works shall be measured net by standard measure and according to the rules and customs of the Department and their rates shall be without reference to any local custom.
10. Under no circumstances shall any Contractor be entitled to claim enhanced rates for items in this contract.
11. In case of Registered Contractors, contractor should produce along with his tender certificate of registration as approved Contractor in the appropriate class and renewal of such registration with date of expiry.
12. All Corrections and additions or pasted slips should be initiated.
13. The measurements of work will be taken according to the usual methods in use in the Department and no proposals to adopt alternative methods will be accepted. The Principal's decision as to what is "the usual method in use in the Department" will be final.
14. A tendering Contractor shall furnish a declaration along with a tender showing all works for which he has already entered into contract, and the value of the work that remains to be executed in each case on the date submitting the tender.

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15. Every tenderer shall furnish a declaration along with the tender, information regarding the Income Tax Circle or Ward of the District in which he is assessed to Income tax, the reference to the number of the assessment and the assessment year, **Permanent Account Number Pan No.**\_\_\_\_\_.

16. The contractors shall also give a list of machinery in their possession and which they propose to use on the work in the form of statement No. II.

17. Successful tenderer will have to produce to the satisfaction of the accepting authority a valid and current license issued in his favour under the provisions of Contract Labour (Regulation and Abolition) Act, 1973 before starting work failing which acceptance of the tender will be liable for withdrawal and earnest money will be forfeited.

18. The Contractor shall comply with the provisions of Apprentices Act, 1961 and the rules and orders issued there under from time to time. If he fails to do so, his failure will be breach of the contract and the Principal, may in his discretion cancel the contract. The Contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions of the Act.

19. In case of any dispute between DKTE COE and Contractor in the matter will be referred to sole arbitrator as per arbitration Act. Award of Arbitrator will be binding to both the parties.

20. Any legal action will be subject to Ichalkaranji jurisdiction.

Contractor

Principal

**whole  
of security  
deposit is  
forfeited.**

**Action when whole  
of security deposit  
is forfeited**

**Clause 1** – In any case in which under any clause of this contract of the Contractor shall have rendered himself liable to pay compensation amounting to the whole of this security deposit whether paid in one sum or deducted by installments or in the case of abandonment of the work owing to serious illness or death of the Contractor or any other causes, the Principal, on behalf of the Company shall have power to adopt any of the following courses, as he may deem best to the interest of Government.

**a)** To rescind the contract (for which rescission notice in writing to the Contractor under the hand of Principal shall be conclusive evidence) and in that case the security deposit of the Contractor shall stand forfeited and be absolutely at the interest of Company.

**b)** To carry out the work or any part of the work departmentally debiting the Contractor with the cost of the work, expenditure incurred on tools and plant, and charges on additional supervisory staff including the cost of work-charged establishment employed for getting unexecuted part of the work completed and crediting him with the value of the work done departmentally in all respects in the same manner and at the same rates as if it had been carried out by the Contractor under the terms of his contract. The certificate of the Principal as to the costs and the other allied expenses so incurred and as to the value of the work so done departmentally shall be final and conclusive against the Contractor.

**c)** To order that the work of the Contractor be measured up and to take such part thereof as shall be unexecuted, out of his hands and to give it to another Contractor to complete, in which case all expenses incurred advertisement for fixing a new contracting agency, additional supervisory staff including the cost of work-charged establishment and the cost of the work executed by the new contracting agency will be debited to the contractor and the value of the work done or executed through the new contractor shall be credited to the contractor in all



respects and in the same manner and at the same rates as if it had been carried out by the Contractor under the terms of his contract. The certificate of the Principal as to all the costs of the work and other expenses as aforesaid for or in getting the unexecuted work done by the new contractor and as to the value of the work so done shall be final and conclusive against the Contractor.

In case the contract shall be rescinded under clause (a) above the Contractor shall not be entitled to recover or be paid, any sum for any work approved or actually performed by him under this contract unless and until the Principal shall have certified in writing the performance of such work and amount payable to him in respect thereof and he shall only be entitled to be paid the amount so certified. In the event of either of the courses referred to in Clause (b) or (c) being adopted and the cost of work executed departmentally or through a new contractor and other allied expenses exceeding the value of such work credited to the Contractor, the amount of excess shall be deducted from money due to the Contractor, by Government under the contract or otherwise howsoever or from his security deposit or the sale proceeds thereof provided, however that the Contractor shall have no claim against Government even if the certified value of the work done departmentally or through a new contractor exceeds the certified cost of such work and allied expenses, provided always that whichever of the three courses mentioned in clauses (a), (b) or (c) is adopted by the Principal, the Contractor shall have no claim to compensation for any loss sustained by reason of his having purchased, or procured any materials, or with a view to the execution of the work or the performance of the contract.

***Action when the progress of any particular of the work is unsatisfactory***

**Clause 2** – If the progress of any particular portion of the work is unsatisfactory, the Principal shall notwithstanding that the general progress of the work is in accordance with the conditions mentioned, be entitled to take action under after given the Contractor 10 days notice in writing. The Contractor will have to claim for compensation, for any loss sustained by him owing to such action.

**Contractor remains liable Clause 3 – In any case in which any of the powers to pay compensation if action not taken under clause 3 & 4**

conferred upon the Principal by clause 3 and 4 hereof shall have become exercisable and the same shall not been exercised, the non-exercise thereof shall not constitute a waiver of any of the conditions hereof and such powers shall notwithstanding be exercisable in the event of any future case of default by the Contractor for which under any clauses hereof he is declared liable to pay compensation amounting to the whole of his security deposit and liability of the Contractor for past and future compensation shall remain unaffected.

**Extension of time**

**Clause 4–** If the Contractor shall desire an extension of the time for completion of work on the ground of his having been unavoidably hindered in its execution or on any other grounds, he shall apply in writing to the Principal before the expiration of the period stipulated in the tender or before the expiration of 30 days from the date on which he was hindered as aforesaid or on which the cause for asking for extension occurred, whichever is earlier and the Principal in the opinion of Engineer as the case may be if in his opinion, there were reasonable grounds for granting an extension, grant such extension as he thinks necessary or proper, the decision of the Managing Director in this matter shall be final.

**Final certificate**

**Clause 5 –** On the completion of the work the Contractor shall be furnished with a certificate by the Managing Director (hereinafter called the Engineer-in-charge) of such completion, but no such certificate shall be given nor shall the work be considered to be completed until the Contractor shall have removed from the premises on which the work shall have been executed, all scaffolding, surplus materials and rubbish and shall have cleaned off, the dirt from all wood work, doors, windows, walls, floor or other parts of any building in or upon which the work has been executed, or of which he may have had possession for the purpose of executing the work nor until the work shall have been measured by the Engineer-in-charge or where the measurements have been taken by his subordinates until they have received approval from the Engineer-in-charge the said measurements being

binding and conclusive against the Contractor. If the contractor shall fail to comply with the requirements of this clause to the removal of scaffolding, surplus materials and the cleaning of dirt on or before the date fixed for the completion of the work the Engineer-in-charge may at the expenses of the Contractor, remove such scaffolding, surplus materials and rubbish and dispose off the same as he thinks fit and clean off such dirt as aforesaid and the Contractor shall forthwith pay the amount of all expenses so incurred, but shall have no claim in respect of any such scaffolding or surplus materials as aforesaid except for any sum actually realized by the sale thereof.

***Bills to be on printed forms.***

**Clause 6** – The Contractor shall submit all bills on the printed forms to be had on application at the office of the Engineer-in-charge. The charges to be made in the bills shall always be entered at the rates specified in the tender or in the case of any extra work ordered in pursuance of these conditions and not mentioned or provided for in the tender, at the rates hereinafter provided for such work.

***Works to be executed in accordance with specifications, drawings orders, etc.***

**Clause 7** – The contractor shall execute the whole and every part of the work in the most substantial and workmanlike manner, and both as regards materials and every other respect in strict accordance with specifications. The contractor shall also confirm exactly, fully and faithfully to the designs, drawings and instructions in writing relating to the work signed by the engineer-in-charge and loaded in his office and to which the contractor shall be entitled to have access for the purpose of inspection at such office, or on the site of the work during office hours. The contractor will be entitled to receive three sets of contract drawings and working drawings as well as one certified copy of the accepted tender along with the work order free of cost. Further copies of the contract drawings and working of required by him, shall be supplied at the rates Rs. \_\_\_\_\_ /- per set of contract drawing and Rs \_\_\_\_\_ /- per working drawing except where otherwise specified.

**Alteration in specification Clause 8**– The Engineer-in-charge shall have power **and designs not to invalidate contracts.**

**Rates for works not entered in estimate or**

**schedule of rate of the district.**

**Extension of time in then consequence of therates addition or alterations**

to make any alterations in or additions to the original specifications, drawings, designs, and instructions that may appear to him to be necessary for advisable during the progress of the work, and the contractor shall be bound to carry out the work in accordance with any instructions in this connection which may be given to him in writing and signed by the engineer-in-charge and such alterations shall not invalidate the contract, and any additional work which the contractor may be directed to do in the manner above specified as part of the work shall be carried out by the contractor on the same conditions in all respects on which he has agreed to do the main work. And if the additional and altered work includes any class of work for which no rate is specified in this contract, such class of work shall be carried out as

entered in the Schedule of Rates of the Division or at the rates mutually agreed upon between the Engineer-in-charge and the contractor, whichever are lower. If the additional or altered work for which no rate is entered in the Schedule of Rates Division, is ordered to be carried out before the rates are agreed upon the contractor shall within seven days of the date of receipt by him of the order to carry out the work inform the Engineer-in-charge of the rate which is his intention to charge for such class of work and if the Engineer-in-charge does not agree to this rate, he shall by notice in writing be at liberty to cancel his order to carry out such class of work, and arrange to carry out it in such manner as he may consider advisable provided always that if the contractor shall commence the work or incur any expenditure in regard thereto before the rates shall have been determined as lastly hereinbefore mentioned, then in such case he shall only be entitled to be paid in respect of the work carried out or expenditure incurred

by him prior to the date of the determination of the rate as aforesaid according to such rate or rate as shall be fixed by the engineer-in-charge. In the event of a dispute the decision of the Engineer-in-charge of the Company will be final. Where, however, the work is to be executed according to the designs, drawings, and specifications recommended by the Contractor and accepted by the Competent Authority the alterations

abovereferred to shall be within the scope of such design, drawings and specifications appended to the tender. The time limit for the completion of the work shall be extended in the proportion that the increase in its costs occasioned by alterations or additions bears to the cost of the original work, and the certificate of the Engineer-in-charge as to such proportion shall be conclusive.

***Time limit for unforeseen claims***

**Clause 9** Under no circumstances whatever shall the contractor be entitled to any compensation from company on any account unless the contractor shall have submitted claim in writing to the Engineer-in-charge within one month of the case of such claim occurring.

***Action and compensation payable in case of bad work.***

**Clause 10** If any time before the security deposit or any part thereof is refunded to the Contractor it shall appear to the Engineer-in-charge or his subordinate in charge of the work at any work has been executed with unsound, imperfect or unskilled workmanship or with materials of inferior quality, or that any material or articles provided by him to the execution of the work are unsound or of a quality inferior to the contracted for, or are otherwise not in accordance with the contract, it shall be lawful to the Engineer-in-charge to intimate this fact in writing to the contractor and then notwithstanding the fact that the work, materials, articles complained of may have been inadvertently passed, certified and paid for, the contractor shall be bound for with to rectify, or remove and reconstruct the work so specified in whole or in part, as the case may require or if so required shall remove the materials or articles at his own charge and cost and in the event of his failing to do so within a period to be specified by the engineer-in-charge in the written intimation aforesaid, the contractor shall be liable to pay the compensation at the rate of one percent on the amount of the estimate for every day not exceeding 10 days during which the failure so continues and in case of any such failure Engineer-in-charge may rectify or remove and re-execute the work or remove replace the materials articles complained of as the case may be at the risk and expense in all respect of the Contractor. Should the engineer-in-charge consider

***P.W.D. Resolution No.  
CAT- 1087/CR-94/ Bldg.-2  
Dated 14/6/89.***

that any such inferior work or materials as prescribed above may be accepted or made use of, it shall be within his discretion to accept the same at such reduced rates as he may fix therefore.

***Work to be open to inspection***

***Contractor or responsible agent to be present.***

**Clause 11-** All works under or in course of execution or executed in pursuance of the contract shall at all times be open to inspection and supervision of the Engineer-in-charge and his subordinates and the contractor shall at all times during the usual working hours, and at all other times at which reasonable notice of the intention of the Engineer-in-charge and his subordinates to visit the works shall have been given to the Contractor, either himself be present to receive orders and instructions, or have a responsible agent duly accredited in writing present for that purpose. Orders given to the Contractor's duly authorized agent shall be considered to have the same force and effect as if they had been given to the contractor himself.

***Notice to be given before work is covered up.***

**Clause 12-** The contractor shall give not less than five days notice in writing to the Engineer-in-charge or his subordinate in charge of the work before covering up or otherwise placing beyond the reach of measurement any work in order that the same may be measured and correct dimensions thereof taken before the same is covered up or placed beyond the reach of measurement and shall not cover up or place beyond the reach of measurement any work without the consent in writing of the Engineer-in-charge or his subordinate in charge of the work, and if any work shall be covered up or placed beyond the reach of measurement, without such notice having been given or consent obtained the same shall be uncovered at the contractor's expense, and in default thereof no payment or allowance shall be made for such work or for the materials with which the same was executed.

***Contractor liable for damage done and for imperfections.***

**Clause 13** If during the period of \_\_\_\_\_ months from the date of completion certified by the Engineer-in-charge pursuant to clause 7 of the contract or \_\_\_\_\_ months after commissioning the work, whichever earlier in the opinion of the

Principal the said work is defective in any manner whatsoever the contractor shall forthwith on receipt of notice in that behalf from the Managing Director duly commence execution in every respect all the work may be necessary for rectifying and setting right the defects specified therein including dismantling and reconstruction of unsafe portions strictly in accordance with and in the manner prescribed and under the supervision of the Engineer. In the event of the Contractor failing or neglecting to commence execution of the said rectification work within the period prescribed therefore in the said notice and/or to complete the same as aforesaid as required by the said notice, the Principal may get the same executed and carried out departmentally or by any other agency at the risk, on account and at the cost of the contractor. The contractor shall forthwith on demand pay to the Government the amount of such cost, charges and expenses sustained or incurred by the government of which the certificate of the Principal shall be final and binding on the contractor.

Such costs charges and expenses shall be deemed to be arrears of land revenue and in the event of the contractor failing or neglecting to pay the same on demand as aforesaid without prejudice to any other rights and remedies of the Government the same may be recovered from the Contractor as arrears of land revenue. The Company shall also be entitled to deduct the same from any amount which may then be payable or which may therefore become payable by the Company to the Contractor either in respect of the said work or any other work whatsoever or from the amount of security deposit retained by Company. The defect liabilities period in particular for waterproofing treatment (building work) shall be 7 years.

***Contractor to supply plant, ladder, scaffolding etc.***

***And is liable for damages arising from non-provisions light, fencing etc.***

**Clause 14** The contractor shall supply at his own cost all material (except such as special materials, if any as may, in accordance with the contract, be supplied from the P.W.D stores), plant, tools, appliances, implements, ladders, cordage, tackles, scaffolding & temporary works requisite or proper execution of the work, whether in the original, altered or submitted **of** form, and whether included in the specification or

other documents forming part of the contract or referred to in these conditions or not and may which may be necessary for the purpose of satisfying or complying with the requirements of the Engineer-in-charge as to any matter as to which under these conditions he is entitled to be satisfied, or which he is entitled to require together with the carriage therefore to and from the work. The contractor shall also supply without charge the requisite number of persons with the means and materials necessary for the purpose of

setting out works and counting, weighing and assisting in the measurement or examination at any time and from time of the work or the materials. Failing this the same may be provided by the Engineer-in-charge at the expense of the contractor and expenses may be deducted from any money due to the contractor under the contract or from his security depositor the proceeds of sale thereof, or a sufficient portion thereof. The contractor shall provide all necessary fencing and lights required to protect the public from accident and shall also be bound to bear the expenses of defense of every suit, action or other legal proceedings, at law that may be brought by any person for injury sustained owing to neglect of the above precautions, and to pay any damages and costs which may be awarded in any such suit action or proceedings to any such person, or which may with consent of the contractor be paid for compromising any claim by any such person. List of machinery in contractor's possession and which he proposes to use on the work should be submitted along with the tender.

**Clause 14(A)** The contractor shall provide suitable scaffolds and working platforms, gangways and stairways and shall comply with the following regulations in connection therewith.

a) Suitable scaffold shall not be provided for workmen for all works that cannot be safely done from a ladder or by other means.

b) A scaffold shall not be constructed, taken down or substantially altered except

1) Under the supervision of a competent and responsible person; and



2) as far as possible by competent workers possessing adequate experience in this kind of work.

3) All scaffolds and appliances connected therewith and ladders shall

i) Be of sound material

ii) Be of adequate strength having regard to the loads and strains to which they will be subjected and

iii) Be maintained in proper condition.

d) Scaffolds shall be so constructed that no part thereof can be displaced in consequence of normal use

e) Scaffolds shall not be overloaded and so far as practicable the load shall be evenly distributed.

f) Before installing lifting gear on scaffolds special precautions shall be taken to ensure the strength and stability of the scaffolds.

g) Scaffolds shall be periodically inspected by a competent person.

h) Before allowing a scaffold to be used by his workmen the contractor shall whether the scaffold has been erected by his workmen or not, take steps to ensure that it complies fully with the regulations herein specified.

i) Working platform, gangway, stairways shall

i) Be so constructed that no part thereof can sag unduly or unequally

ii) Be so constructed and maintained, having regard to the prevailing conditions as to reduce as far as practicable risks of persons tripping or slipping, and

iii) Be kept free from any unnecessary obstruction.

j) In case of working platform, gangways, working places and stairways at a height exceeding 2 mtrs 9 to be specified)

i) Every working platform and gangway shall be closely boarded unless other adequate measures are taken to ensure safety.

ii) Every working platform and gangway shall have adequate width, and

iii) Every platform gangway, working place and stairway shall be suitably fenced.

k) Every opening in the floor of a building in a working platform shall except for the time and to the extent required to allow the excess of persons or the

transport of the shifting material provided with suitable means to prevent the fall of persons or material.

l) When persons are employed on a roof where there is a danger of falling from a height exceeding 2 mtrs (to be specified) suitable precautions shall be taken to prevent the fall of persons or material.

m) Suitable precautions shall be taken to prevent persons being struck by articles, which might fall from scaffolds or other working places.

n) Safe means of access shall be provided to all working platforms and other working places.

o) The contractor / (s) will have to make payments to labourers as per Minimum Wages Act 1948.

**Clause 14 (B)** The contractor shall comply with the following regulations as regards the Hoisting Appliances to be used by him:

a) Hoisting machines and tackles, including their attachments, anchorages and supports shall

i) Be of good mechanical construction, sound material and adequate strength and free from patent defect. And

ii) Be kept in good repair and in good working order.

b) Every rope used in hoisting or lowering materials or as a means of suspension shall be of suitable quality and adequate strength and free from patent defect.

c) Hoisting machines and tackles shall be examined and adequately tested after erection on site and before use and be reexamined in position at intervals to be prescribed by the Government.

d) Every chain, ring, hook, shackle, shivel and pulley block used in hoisting or lowering materials or as a means of suspension shall be periodically examined.

e) Every crane driver or hoisting appliance operator shall be properly qualified.

f) No person who is below 21 years of age shall be in control of any hoisting machine including any scaffold, which gives signals to the operator.

g) In case of every hoisting machine and of every chain, ring hook, shackle, shivel and pulley block used in hoisting or lowering or as a means of suspension, the safe workload shall be ascertained by adequate means.

h) Every hoisting machine and all gear referred to in preceding regulation shall be plainly marked with safe working load.

i) In the case of a hoisting machine having a variable safe working load each safe working load and the conditions under which it is applicable shall be clearly indicated.

j) No part of any hoisting machine or any gear referred to in regulation (g) above shall be loaded beyond the safe working load except for the purpose of testing.

k) Motors, gearing, transmissions, electric wiring and other dangerous parts of hoisting appliances shall be provided with efficient safeguards.

l) Hoisting appliances shall be provided with such means as will reduce to a minimum risk of accidental descent of the load.

m) Adequate precautions shall be taken to reduce to a minimum the risk of any part or suspended load becoming accidentally displaced.

***Measure for prevention of fire.***

**Clause 15** The contractor shall not set fire to any standing jungle, trees, bushwood, or grass without a written permission from the Executive Engineer.

When such permit is given and also in the case when destroying, cut or dug up trees, bushwood, grass etc, by fire, the contractor shall take necessary measures to prevent such fire spreading to or otherwise damaging surrounding property. The contractor shall make his own arrangements for drinking water for the labour employed by him and provide them sanitary and other arrangements.

***Liability of Contractor for any Damage done in or outside work area.***

**Clause 16** Compensation for all damages done intentionally by contractor's labours whether in or beyond the limits of the Company property including any damage caused by the spreading of fire mentioned in Clause 17 shall be estimated by Engineer-in-charge or such other officer as he may appoint and the estimate of the Engineer-in-charge subject to the decision of the Engineer on appeal shall be final and the Contractor shall be bound to pay the amount of the assessed compensation on demand failing which will be recovered from the contractor as damage in the manner prescribed in Clause 1 or deducted by Engineer-in-charge from any sums that may be due or become due from Government to contractor under this contract or otherwise. The contractor shall bear the expenses of defending any action or other legal proceedings that may be brought

by any person for injury sustained by him owing to neglect of precautions to prevent the spread of fire and he shall pay any damages and cost that may be awarded by the court in consequence.

***Work not to subject***

***Contract may be rescinded and security deposit forfeited for the subletting it without any approval or for bribing a public officer or if contractor becomes insolvent.***

**Clause 17** The contract shall not be assigned or subject without the written approval of the Engineer-in-charge. And if the contractor shall assign or subject his contract, or attempt to do so, or become insolvent or commence any proceedings to get himself adjudicated and insolvent or make any composition with his creditors, or attempt so to do or if bribe, gratuity, gift, loan, perquisite, reward or advantage, pecuniary or otherwise shall either directly or indirectly be given, promised or offered by contractor or any of his servants or agents to public officer or person in the employment of company in any way relating to his office or employment, or if any such officer or person shall become in any way directly or indirectly interested in the contract, the Engineer-in-charge may thereupon by notice in writing rescind the contract, and the security deposit of the contractor shall thereupon stand forfeited and be absolutely at the disposal of company, and the same consequences shall ensue as if the contract had been rescinded under clause 3 thereof and in addition the contractor shall not be entitled to recover or be paid for any work thereof actually performed under the contract.

***Sum payable by way of compensation to be considered as reasonable compensation without reference to actual loss.***

**Clause 18** All sums payable by a contractor by way of compensation under any of these conditions shall be considered as a reasonable compensation to be applied to the use of company without reference to the actual loss or damages sustained, and whether any damage has or has not been sustained.

***Changes in the Constitution of firm to be notified.***

**Clause 19** In the case of tenders by partner, any change in the constitution of a firm shall be forthwith notified by the contractor to the Engineer-in-charge for his information.

***Direction and control of  
The Superintending  
Engineer***

**Clause 20** All works to be executed under the contract shall be executed under the direction and subject to the approval in all respects of the Engineer of the Company, for the time being, who shall be entitled to direct at what point or points and in what manner they are to be commenced, and from time to time carried on.

***Actions where  
no specifications***

**Clause 21** In the case of any class of work for which there is no such specification as is mentioned in Rule 1 from B-1 such work shall be carried out in accordance with the Divisional specifications, and in the event of there being no Divisional specification then in such case work shall be carried out in all respect in accordance with all instructions and requirements of the Engineer-in-charge.

***Definition of work.***

**Clause 22** The expression "Work" or "Works" where used in these conditions, shall unless there be something in the subject or context repugnant to such construction, be construed to mean the work or works contracted to be executed under or in virtue of the contract whether temporary or permanent and whether original, altered, substituted or additional.

***Compensation under  
Workmen's  
compensation Act.***

**Clause 23** The Contractor shall be responsible for and shall pay any compensation to his workmen payable under workmen's compensation Act, 1923 (VIII of 1923) (herein after called the said Act) for injuries caused to the workmen. If such compensation is payable by the Government as principle used sub-section (1) of Section 12 of the said Act on behalf of the contractor, it shall be recoverable by the government from the contractor under sub-section (2) of the said section. Such compensation shall be recovered in the manner laid down in Clause 1 above.

***Entering upon or  
Commencing any  
portion of work.***

**Clause 24** The contractor shall not enter upon or commence any portion of work except with written authority and instructions of the Engineer-in-charge or of his subordinate in charge of the work. Failing such authority the contractor shall have no claim to ask measurements or for payment for work.

***Minimum age of person employed, the employment of donkeys and/or other animals and the payments of fair wages.***

**Clause 25**

- 19) No contractor shall employ any person under of the age of 18 years
- ii) No contractor shall employ donkeys or other animals with breaching of string or thin rope. The breaching must be at least three inches wide and should be of tape (Newar).
- iii) No animal suffering from sores, lameness or emaciation or which is immature shall be employed on the work.
- iv) The Engineer-in-charge or his agent is authorized to remove from the work, any person or animal found working which does not satisfy these conditions and no responsibility shall be accepted by the Government for any delay caused in the completion of the work by such removal.
- v) The contractor shall pay fair and reasonable wages to the workmen employed by him, in the contract undertaken by him. In the event of any dispute arising between the contractor and his workmen on the grounds that the wages paid are not fair and reasonable the dispute shall be referred without delay to the Principal who shall decide the same. The decision of the Principal shall be conclusive and binding on the contractor but such decision shall not in any way affect the conditions in the contract regarding the payment to be made by Government at the sanctioned tender rates.
- vi) Contractor shall provide drinking water facilities to the workers. Similar amenities shall be provided to the workers engaged on large work in urban area.
- vii) Contractor to take precautions against accidents which take place on account of labour using loose garments while working near machinery.
- viii) All facilities provided in the Contract Labour (Regulation and Abolition Act 1971), the Maharashtra Contract Labour Regulation and Abolition Rule 1971 should be provided.

**Acceptance of conditions compulsory before tendering work**

**Employment of scarcity labour.**

**Maharashtra Act XIX of 1985,  
Clause regarding turnover  
vide P.W.D circular No.  
CAT-1086/CR-330 Bldg-2  
Dated 10<sup>th</sup> June 1987**

**Government Circular  
No: CAT 1284(120)  
Building-2 Mantralaya  
Mumbai- 400032  
Dated 14/08/85**

**Clause 26** Any contractor who does not accept these conditions shall not be allowed to tender for work.

**Clause 27** If Government declares a state of scarcity or famine to exist in any village situated within 10 miles of the work, the contractor shall employ upon such parts of the work, as are suitable for unskilled labour, any person certified to him by the Executive engineer, or by any person to whom the Managing Director may have been delegated this duty in writing to be in need of relief and shall be bound to pay to such person wages not below the minimum which Government may have fixed in this behalf. Any disputes which may arise in connection with the implementation of this clause shall be decided by the Managing Director whose decision shall be final and binding on the contractor.

**Clause 28(a)** The tendered rates shall be inclusive of all taxes, cesses, and royalties. **The amount of tax royalty shall be deducted from bills to deposit in the treasury of Government.**

**Clause 29** The rates to be quoted by the contractor must be inclusive of sales tax. No extra payment on this account will be made to the contractor.

**Clause 30** The contractor shall duly comply with all the provisions of the Contract Labour (regulation and Abolition) Act, 1970 (37 of 1970) and the Maharashtra Contract Labour (Regulation and Abolition) Rules, 1971 as amended from time to time and all other relevant statutes and statutory provisions concerning payment of wages particularly for workmen employed by the contractor and working on the site of the work. In particular the contractor shall pay wages to each worker employed by him on the site of the work at the rates prescribed under Maharashtra Contract Labour (Regulation and Abolition) Rules 1971. If the contractor fails or neglects to pay wages at the said rates or makes short payments and the Government makes such payment of wages in full or part thereof less paid by the contractor as the case may be, the amount so paid by the Government to the workers shall be deemed to be arrears of land revenue and

the Government shall be entitled to recover the same as such from the contractor or deduct the same from the amount payable by the Government to the contractor hereunder or from any other amount/s payable to him the Government.

**Clause 31 CONDITIONS RELATING TO INSURANCE OF CONTRACT WORK**

The contractor shall take necessary Insurance Policy/ Policies so as to provide adequate insurance cover for execution of the awaited contract work for total contract value and complete contract period from the "Directorate of Insurance, Maharashtra State, Mumbai only. Its postal address for correspondence is "264 MHADA, First Floor Opposite Kalanagar, Bandra (East), Mumbai- 400051." (Telephone Nos. 022-26438690/26438746 & Fax no. 022-26438461). Similarly all workmen appointed to complete the contract work are required to insure under workmen's compensation Insurance Policy. Insurance Policy /Policies taken out from any other company will not be accepted and the amount of premium calculated by the Directorate of Insurance will be recovered directly from the amount payable to the contractor for the executed contract work.

**Clause 32-** Quantities mentioned in estimate of tentative and approximate and are subject to increase or decrease during executing, also owner reserves the right to delete any items of work. The contractor shall have no right for any extra claim and his bill shall be paid on executed quantity as per tender only.

***Liquidated Damage***

**Clause 33-** In case of delay in execution of contract work within prescribed time limit penalty will be imposed 1% per week and maximum 10% of the Contract value.

**Clause 34-** Work should be carried out under the supervision of Consultant V. A. Swami & Associates & Engineer of DKTE COE & Electrical Engineer of M.S.E.D.C.L.

**Clause 35-** Each and every Material to be approved by Executive Engineer MSEDCL, Ichalkaranji & Electrical Consultant before supply of the material site.

Contractor

Principal



## Detailed Tender Notice

### MANNER OF SUBMISSION OF TENDER AND ITS ACCOMPANIMENTS

The Tender shall submit the tender and documents in two sealed envelopes as listed below :-

1. Envelope No. 1 ( Documents ) :-

The First envelope clearly marked as 'Envelope No.1' shall contain the following documents.

- 1.1 a) PAN / GIR No. allotted by Income Tax Department.  
b) Acknowledgement of Income Tax Return filled 2013-2014  
c) Audited Balance Sheet with Profit and Loss A/c for the immediate previous three financial years as per Income Tax Act 1961 Rule 44 AB.
- 1.2 Sales Tax Registration certificate in Form IT, Rule 4(1) as provided by Maharashtra State, Sales Tax Act,(Maharashtra Act No. XXXVI of 1989. The Maharashtra Sales Tax on Transfer of Property in Goods involved in execution of works contract (Re enacted Act. 1989) from the sales Tax Department of Maharashtra State. ( In original or a copy duly attested by a Gazetted Officer of Public Works Department only)
- 1.3 The list of Machinery and plants immediately available with the tenderer for use on this work and list of Machinery proposed to be utilized on this work, but not immediately available and the manner in which it is proposed to be procured.
- 1.4 Proof of appointment of employees including technical personal by way of valid professional Tax Registration Certificate in form PTR (I) under section (i) of section 5 of Maharashtra Sales tax on Profession, Trade, Callings, and employment Act, 1975, rule 3(2) from the professional Tax Officer of the concerned District in Maharashtra. The Professional Tax officer shall be enclosed. (Form IA & IIA)
- 1.5 Details of work done during last five years with the value of work unfinished (Information to be given in statement No. 1)
- 1.6 Details of work similar type and magnitude carried out by the contractor (Information to be given in proforma of statement 5)  
The certificates should be signed by the Authority (not below the rank of Engineer) with whom the contractor has executed the work.
- 1.7 Details of list of works in hand and works tendered for. ( Information to be given proforma of statement No.3 )

1.8 Details of Technical Personnel on the rolls of the tenderer. ( Information to be given in Proforma of statement No.4)

1.9 Certified copy of Partnership Deed and Power of Attorney, in case of a firm tendering for work and Memorandum and Articles of Association if a JSC. (True copy attested by Gazetted Officer)

2) Envelope No.2 Tender (Financial Bid) :-

The second Envelope clearly marked, as Envelope No.2 shall contain only the main tender. A tender submitted without this would be considered as invalid.

3) Submission of Tender :-

The two sealed envelopes No. 1 and No. 2 shall be again put together in one common cover and sealed. This sealed cover shall be marked on the left hand top corner "Tender for the work of supply, erection, commissioning & Testing of 1500KVA Transformer Substation.

4) Opening of Tenders:-

On the date, Specified in the tender Notice, following procedure will be adopted for opening of the tender.

a) Envelope No.1 :

First of all Envelope No.1 of the tender will be opened to verify its contents as per requirements. If the various documents contained in this envelope do not meet the requirements of the department, a note will be recorded accordingly by the tender opening authority and the said tenderers envelope No.2 will not be considered for further action and the same will be recorded.

b) Envelope No.2 (Financial Bid) :

This envelope shall be opened immediately after opening of envelope No.1 only if contents of Envelope No.1 are found to be acceptable to the company. The quoted Item rates shall then be read out.

Contractor

Principal

**STATEMENT NO.1**

**STATEMENT SHOWING WORK DONE IN CLASSES OF ELECTRICAL WORK DURING LAST THREE YEARS**

**NAME OF CONTRACTOR:-** \_\_\_\_\_

SR.NO.	Name of Work	Amount put to tender/tendered cost	Agreement No	Date of Commencement	Amount of work done during each of last three years.(Rs. In Lakhs)		Amount of work still remaining to be executed		Remarks
					2003-2004	2004-2005	2005-2006		
1	2	3	4	5	6	7	8	9	10
	GRAND TOTAL								

Contractor

Engineer

**STATEMENT NO.2**

**DETAILS OF LIST WORKS IN HAND AND WORKS TENDERED FOR AS ON**

SR. NO.	Name of Work	Agreement No	Tendered amount	Date of Commencement	Stipulated date of Completion	Value of work already done	Value of Balance work	Probable date of completion	Remarks
1	2	3	4	5	6	7	8	9	10

Contractor:

**(II) WORKS TENDERED FOR**

SR.NO	Name of Work	Name & Address of Client	Tendered amount	Time Limit	Probable Date when decision is expected	Other relevant details if any
1	2	3	4	5	6	7

Contractor:

**Note:** 1) This is only specimen form. Details are to be furnished in this format in the form of type written statement, which shall be enclosed in Envelope No.1.  
 2) Certificates from concerned Head of Office not below rank of Engineer to be attached in support.

**STATEMENT NO.3**

STATEMENT SHOWING TECHNICAL PERSONNEL AVAILABLE WITH CONTRACTOR WHICH CAN BE SPARED EXCLUSIVELY FOR THIS WORK.  
 NAME OF CONTRACTOR:- \_\_\_\_\_

SR.NO.	Designation	Name	Qualification	Professional Experience of work carried out	Remarks
1	2	3	4	5	6

Contractor:

**Note:- This is only standard form details are to be furnished in this format in the form of typewritten statement which shall be enclosed in Envelope No. 1.**

**STATEMENT NO.4**

DETAILS OF WORKS OF SIMILAR TYPE AND MAGNITUDE CARRIED OUT BY CONTRACTOR.

SR. NO.	Name of Work	Name and address of the organization for whom the work was done	Place & Country	Agreement No.	Date of Commencement	Tendered cost	Total Cost of work done	Date of completion	Principal Features in brief
1	2	3	4	5	6	7	8	9	10

Contractor:

**Name of Work:- supply, erection, testing & commissioning of 1500 KVA Transformer Centre including all the associated works at DKTE COE IN NON WOEVENS, PLOT NO.3, SHRILAXMI CO-OP. INDUSTRIAL ESTATE LTD., HATKANANGALE.**

## **DECLARATION OF THE CONTRACTOR**

I/We hereby declare that I/we have made myself/ourselves thoroughly conversant with sub-soil conditions, the local conditions regarding all materials and labour of which I/we have based my/our rates for this work. The specifications, conditions, bore results and lead of materials on this work have been carefully studied and understood by me/us before submitting the tender. I/We undertake to use only the best materials approved by the Engineer, and consultant as per specification mentioned in tender or his duly authorized assistant, before starting the work and to abide by his decision which is final & binding.

I/We hereby further declare that my/our tender is unconditional in every manner of whatsoever in nature.

I/We hereby undertake to pay the labourers engaged on the work as per Minimum wages Act 1948 applicable to the zone concerned.

Signature of the Contractor(s)

Signature of Contractor

Principal

**Schedule – B**  
**DKTE COE IN NON WOEVENS.**

Tender - Electrical Contract Work of Supply & Errection of 1500 KVA Transformer, and Installation of H.T & L.T Panels, Laying of HT & LT Cables, Earthing system etc. of 11KV/433 V, 1500 KVA Transformer Sub Station(S/S )

**BILL OF QUANTITIES**

Sr. No.	Description	Qty.	Unit	Rate		Amount	
				Supply	Labour	Supply	Labour
<b>A</b>	<b>11 KV HT Line work</b>						
1	RSJ Pole of 100 x 116 sq.mm 11 RMT	01	No.				
2	RSJ Pole of 175 x 85 sq.mm 10 RMT	0	No.				
3	HT stay set	3	Set				
4	HT stay clamp	0					
5	HT stay wire 7/8 swg	24	Kg.				
6	11 KV V X – ARM	0	No.				
7	11 KV V X – ARM clamp	0	No.				
8	11 KV disc insulator 70 KN	6	No.				
9	11 KV Pin insulator with GI pin	2	No.				
10	11 KV signal pole cut pt. channel	2	Pr.				
11	Three hole strips	3	Pr.				
12	11 KV hardware set complete (Raccon)	6	Set				
13	11 KV Guarding channel	2	No.				
14	11 Guarding channel clamp	2	No.				
15	G I wire 8 swg	20	Kg.				
16	MS nut bolts	10	Kg.				
17	Concreting of stay and pole	0.5	Cmt				
18	Anticlimbing Devices	0					
19	11 KV danger board	01	No.				
20	Barbed wire	10	Kg.				
21	ACSR conductor 0.075 Raccon	0.30	Km.				
22	HT earthing set	03	Set				
23	Painting of RSJ pole (Red, Alu& Black) by 2 coats of red oxide & 1 coat of alu paint	01	Per pole				
24	11 KV Line channel '8' DP	0	PR				
25	Sundries	LS	LS				

**DKTE CENTRE OF EXCELLENCE IN NONWOVENS, ICHALKARANJI.**

<b>B</b>	<b>Line DP &amp; HT Cubicle</b>						
1	RSJ Pole 110 x 116 mm – 11 MT	02	No.				
2	11 KV L.A.	01	Set				
3	LA Fixing channel	01	Set				
4	HT earthing set	04	Set				
5	11 KV VX – ARM	01	No.				
6	11 KV VX – ARM clamp	0	No.				
7	11 KV Top pin support	01	No.				
8	Three hole strip	01	Pr.				
9	11 KV single pole cut point channel	01	Pr.				
10	11 KV pin insulator with GI pin	06	No.				
11	GI Wire 8 swg	08	Kg.				
12	11 KV hardware set complete (Raccon)	03	Set				
13	Danger board	02	No.				
14	MS nut bolts	06	Kg.				
15	Heat shrinkable jointing kit						
	1. Indoor Type	01	No.				
	2. Outdoor Type	01	No.				
16	Disc. Insulator 70 KN	03	No.				
17	3" GI pipe for cable support	01	RMT				
18	Channel for cable support	04	No.				
19	Painting of RSJ pole (Red, Alu& Black) by 2 coats od red oxide & 1 coat of alu paint	02	Per pole				
20	Concreting	1.2	CMT				
21	Earthing to cubical	09	Set				
22	Cost of HT TOD meter	01	No.				
23	HT stay set	01	Set				
24	HT stay clamp	0	Pr.				
25	HT stay wire 7/8 swg	08	Kg.				
26	Sundries	01	LS				
27	Supply of 11KV 3 core round XLPE noured Aluminum cable 185 Sq.MM per approved make	40	RMT				
28	HT Cable jointing kit for 185 sq MM (ID-OD type including jointing work as per approved make	01 (id) 01 (od)	No.				
29	a) 185 sq.mm cable laying line from 11 KV line to metering cubical using 100mm GI pipe on pole & RCC V Gutter in ground & covering gutter using 100 mm RCC slab	35	No.				

**DKTE CENTRE OF EXCELLENCE IN NONWOVENS, ICHALKARANJI.**

	b) GI pipe 100mm for cable support 3 RMT	01	01 No				
	c) RCC V gutter with RCC cover 100 mm thick	30	RMT				
	Channel for cable support CH 75x40	02	No.				
C	a) Supply, erection, testing, comm. of 11 KV /433 Volt, 1500 KVA Transformer with OLTC on readymade foundation (Filteration of the oil in the transformer also be carried out before the testing & the commissioning of the transformer if necessary) specification of transformer as per Annex 1 & approved make only	01	No.				
	b) Supply, Erection, testing, comm. of RTCC AVR panel in control room using MS channel 75X40X5mm etc. complete in all respect as per drawing. Approx. size 600 x 600 x 2000 mm	01	No.				
D)	Supply, erection, testing, comm. of 11 KV 800 A LBS with earth switch & Metering Cubical inside control room on readymade foundation.  11 KV HT Metering (Indoor type ) With 3 Nos. CT- of 50/5 & PT-3 Nos with LT TOD Meter As per specifications and approval of MSEDCL and Chief Engineer (Electrical) PWD Dept., Mumbai-400007 & duly tested by MSEDCL Testing Division, Kolhapur.  CT Ratio-50/5, VA 100, CL:0.5 (CT ration to be confirmed as per MSEDCL sanction letter only) P T Ratio-11000/3/110 / 3 Volt VA 100, CL : 0.5 Make of product MSEDCL approved	01	No.				
E)	Supply, erection, testing, commi. Of 11 KV VCB panel (indoor Type) inside Control room using MS Channel 100X50X5mm etc. complete in all respect as per drawing & direction of consultant. Specification of VCB are as per enclosed Annex 2 & approved make only. Approximate size 1000 x 2000 x 2200 mm	01	No.				



**DKTE CENTRE OF EXCELLENCE IN NONWOVENS, ICHALKARANJI.**

F) 1)	Supply Laying &Commi. of 11 KV 3 Core XLPE Armoured Round Aluminum 185 Sq.MM 3 core in trench from Metering Cubical to VCB panel & Transformer as per drawing & direction of Consultant. Approved make only.	25	Mtr				
2)	Supply of 11 KV 185 Sq.MM 3 core jointing kit including jointing work. Indoor type. Approved make only.	04	Mtr.				
3)	Supply & laying of round Copper conductor armoured XLPE cable in build in trenches, termination of cables using heavy duty Compression type Glands, Copper Lugs etc. complete work in all respect including testing commissioning as under (Approved make only).						
3)a	2.5 sq.mmx20 Core cable from RTCC To Transformer, OLTC panel	50	Mtr.				
3)b	2.5 sq.mm X4 core cable from main Panel to Transformer OLTC panel	25	Mtr.				
3)c.	2.5 sq.mm X2 core cable from LT Panel to RTCC panel.	25	Mtr.				
3)d.	2.5 sq.mm X2 core cable from RTCC to LV side of Transformer	25	Mtr.				
3)e.	2.5 Sq.MMX12 core cable from Transformer Marshalling to VCB	25	Mtr.				
3)f	2.5 sq.mm x 2 core cable from transformer marshaling box to VCB	25	Mtr.				
3)g	4 sq.mm x 2 core cable from transformer marshaling box to VCB	25	Mtr.				
4)	Supply of heavy duty compression type glands, copper lugs etc. complete material and cable termination connecting work in all respect including all						
a)	2.5 sq.mm x 20 core cable from RTCC panel to Transformer OLTC panel	02	No.				
b)	2.5 sq.mm x 4 core cable from main panel to Transformer OLTC panel	02	No.				
c)	2.5 sq.mm x 2 core cable from LT panel to RTCC panel	02	No.				
d)	2.5 sq.mm x 2 core cable from RTCC to LV Side of Transformer	02	No.				
e)	2.5 sq.mm x 12 core cable from Transformer Marshaling box to VCB panel	02	No.				

**DKTE CENTRE OF EXCELLENCE IN NONWOVENS, ICHALKARANJI.**

f)	2.5 sq.mm x 2 core cable from Transformer Marshaling box to VCB panel	02	No.				
g)	4 sq.mm x 2 core cable from Transformer Marshaling box to VCB panel	02	No.				
5	a) Supply of 1.1 KV aluminum conductor LT XLPE 3.5 core 400 sq.mm round armoured cable and laying 10 runs from transformer to LT panel providing MS angle support in built in trenches etc. complete in all respect as per drawing & direction of consultant. Quantity to be procured as per actual based.  b) Supply of 1.1 KV aluminium conductor LT xlpe 3.5 core 300 sq.mm round armoured cable and laying from LT panel to PDB providing MS angle support in built in trenches etc. complete in all respect as per drawing & direction of consultant. Quantity to be procured as per actual requirement.	200	Mtr.				
		500	Mtr.				
6	Supply of heavy duty doublecompression type glands crimpingtype by metal lugs GI nut bolts etc andtermination of cables connecting thecables taping with empire and PVCtape etc complete in all respect as per drawing and direction of consultant a) For 400 sq.mm. cable b) For 300 sq.mm. cable	20					
		20 15					
G	a) EARTHING Preparation of earth electrode station as per IS 3043 using centrifuged casted CI earth electrode 2.5 Mtr length which should non-painted , 7 mm thick with clamp , 100 mm ID , wholes for watering , 2 Bags of 25 Kg grouting mineral (compound) and black soil etc . Job includes civil work of excavation of earth pit ( or drilling hole by boring m/c for earth electrode, refilling by using 2 Bags of 25 Kg grouting mineral (compound) and black soil etc. & supply fixing of RCC collar 9 " long ID - 14 " O.D 16 " with RCC cover as chamber ) as per drawing and direction of consultant Earth testing should be carried out in presence of consultant and approved.	25	Nos.				
	b) Supply, Laying using GI spacer,						

**DKTE CENTRE OF EXCELLENCE IN NONWOVENS, ICHALKARANJI.**

	saddles and making proper connection of copper earthing strip with each earth electrode station and electrical equipment by connecting one strip to other by brass nut bolt, washers/brazing the joints as per requirement.	40	Kg				
	i) Providing metering cubical earthing using 25 X 3 mm Copper strip.	40	Kg				
	ii) Providing transformer neutral earth using 50 X 3 mm copper strip.	150	Kg				
	iii) Providing earthing using 25 x 3 mm copper strip to transformer, VCB, metering cubicle, LT Panel, chain link fencing etc. as per drawing and direction of consultants						
H1)	Supply & Laying and fixing rubber matting of 12 mm thick x 1 Mtr. Width of ISI mark	20	RMT				
2)	Supply of Safety equipments						
	a) 4 Bucket with stand	01	Set				
	b) Shock treatment chart	02	Nos.				
	c) 11 KV hand gloves 1 Pair	01	Pair				
	d) First Aid Box	01	No.				
	e) Fire extinguisher Co2 gas type	01	No.				
I 1)	<b>LIGHTING WORK</b>						
	a) Supply of box type single fluorescent tube mounting channel fabricated from heavy gauge CRCA MS sheet, stove enameled in white from inside with electronic ballast having THD less than 10% ( Life guarantee 2 years ) and supply of 36 Watt / 230 Volt 3250 lumen output flouroscent lamp etc. complete.	12	Nos.				
	b) FTL as above but in whether proof IP-65 class.	02	Nos.				
	c) Supply of 1200 mm Ceiling Fan of reputed make.	01	No.				
2)	<b>LIGHT POINT WIRING WORK</b>						
	a) Carrying out light point wiring work inside metering room using 20/25 mm heavy duty PVC pipe & accessories reputed approved make using GI saddles, screws & 1 sq. mm FR, PVC copper conductor wire from lighting DB to various lighting point, including installation of FTL as per drawing.	12	Nos.				
	b) point wiring for independent plug as	02	Nos.				

**DKTE CENTRE OF EXCELLENCE IN NONWOVENS, ICHALKARANJI.**

	above using 1.5 Sq.mm PVC FR copper conductor wire						
3)	<p>LIGHTING DB Supply &amp; installation lighting distribution board in sheet metal construction having copper busbar with protection class IP-54 as Under</p> <p>Incomer – RCBO 4P 100 mA 10 A 4 No.Out going MCB SP 10 KA 6 A 2 No.Out going MCB SP 10 KA 10 A</p>	01	No.				
J 1)	Approval & Testings						
	a) Approval & Testing of 1500 KVA transformer by MSEDCL testing authorities & clients representative/consultant at works to be arranged by supplier. All incidental expenses, Travelling, lodging boarding etc to be born by supplier. Official testing fee will be paid by DKTE COE.						
	b) Approval of material form MSEDCL authorities and DKTE COE & Electrical Consultant at site & at works of equipments. All expenses connected with testing of equipments at manufactures works to be born by supplier. Official MSEDCL fees will be paid by DKTE COE.	Lot					
	c) Testing of metering cubicle MSEDCL Testing Division Kolhapur, Testing fee & incidental expenses to be paid by supplier.	Lot					
	d) Approval of all drawings from MSEDCL & Electrical Inspector Kolhapur. Govt. official fees will be paid by DKTE COE. Incidental expenses to be paid by supplier.	Lot					
	e) Arranging HT meter testing at site with all formalities of MSEDCL authorities including testing fee & incidental expenses to be paid by supplier.	Lot					
	f) Liasioning with MSEDCL & Electrical Inspector for obtaining permissions to charge & commissioning of Transformer Centre including incidental & travelling expenses.	Lot					

**DKTE CENTRE OF EXCELLENCE IN NONWOVENS, ICHALKARANJI.**

g) Submission of all approved drawings and test certificates & as worked drawings in five sets to DKTE COE & electrical consultant.	Lot						
Sub Total							
Vats on Supply Item 5%							
Vats on Supply Item 12.5%							
CST 2%							
Service Tax							
Grand Total							

Above quantities are base on estimated basis. Hence +/- 30% variation in quantity and amount to be considered. All drawings are available in consultant office and interested parties should study the drawings and visit to site before submitting the offer.

Note :- 1) All material that will be used should be approved before procurement. Clients and consultant decision regarding make and specification of material is final & binding.  
2) All approvals of drawings & Materials from MSEDCL Kolhapur and Electrical Inspector Kolhapur is in the scope of Electrical Contractor including liasoning & Coordination.

Engineer

Consultant

Principal.

**Annexure I**

**Technical Specification of 1500 KVA Transformer**

1	Rating	1500 kVA
2	Type	Outdoor
3	Winding Material	Copper
4	Voltage Ratio	11 KV / 433 Volts
5	Frequency	50 Hz
6	Connections	
	HV	Delta
	LV	Star
7	Vector Group	Dyn11
8	Termination	
	HV	Cable Box Suitable for 185 sq. mm 3 core 11 KV XLPE armoured cable
	LV	Cable Box suitable for termination of 10 Nos. 3.5 core 400 sq.mm XLPE round armoured cable
9	Tapping Mode	On load tap change switch (OLTC)
10	Tapping range	± 10%
11	Temperature rise of all over ambient temp of 50°C	55°C
12	No Load Losses	(Low) less than 2 Kw (IS Tolerance)
13	Full Load Losses	(Low) less than 15 Kw (IS Tolerance)
14	Impedance	6.25% (IS Tolerance)
15	Efficiency % at Unity Pf at 0.8 Pf	100%    75%    50%    25%
16	Regulation	
	UPF	
	0.8 PF	
17	Approx Weight Core & Winding Kg Tank & Fitting Kg Oil Kg/Ltr Total Kg	
18	Overall dimensions L-W-H in mm Tank dimensions L-W-H in mm	

### Fittings

Sr. No	Description
1	Oil conservator with prismatic oil level guage
2	Silica gel dehydrating breather
3	Double diafram explosion vent with equalizer pipe
4	Four Bi-directional rollers
5	Thermometer Pocket
6	1 No. Filter valve with plug
7	2 Nos. Earthing Terminals
8	Air Release Plug
9	Rating and diagram plate
10	Lifting Lugs
11	Marshlling Box
12	First fill of oil

### Accessories

1	Oil Temperatures indicator with alarm and trip contacts
2	Buchholz relay with alarm and trip contact
3	On load tap changer with 11 KV & 200 Amp
4	RTCC and AVR Panels

### Testing

Routine testing at ERDA/CPRI as per IS-2026 and in presence of Testing Engineer and Testing division MSEDCL Kolhapur at works to be arranged by supplier free of cost.

### Erection & Commissioning

Erection of transformer & RTCC-AVR panel will be carried at site by contractor. However the transformer charging including the RTCC-AVR panel commissioning will be carried out by the service engineer of supplier at site free of cost.

Supplier should positively give this design data alongwith tender.

Engineer

Consultant

Principal

## Annexure II

## Technical Specification of 11 KV VCB

Sr. No.	Dr. Tag No.	Description	Qty.Nos.	Make
1	52	11 KV 800 A 25 KA 3 SEC, VCB Tripping & closing coil, 24 V DC, spring charging motor 230 V AC, draw in & isolation horizontal Aux contact 8 No. + 8 NC	01	HTS/ABB/ KIRLOSKAR/ CROMPTON/ SIEMENS/ SCHNIEDER / GE / MEGAWIN
2	CT	Epoxy resin cast, CT 11 KV Core-1 15 VA CI 0.5 Core-2 15 VA CI 5P10 CT Ratio : 60/5-5 A	03	Pragati
3	PT	PT, Epoxy resin cast, fixed type Core-1 100 VA CI 0.5 11 KV / 110 V $\sqrt{3} / \sqrt{3}$ With PT fuses 3.15 A	03	Pragati
4	50/51 95	Triple pole idmtl relay, withtripckt supervision relay 30 / C + 1 E / F with high set O / C setting – 50 % - 200% of 5 A E / F setting – 10% - 40 % of 5A With high set for both o / c & E / F Aux. voltage – 24 V DC Type REJ 601 with RS 485 Port	01	ABB
5	86	Master trip relay, type – PQ8 Nch2j Coil voltage 24 V DC 3 No + 1 NC H/R contacts, flush mounted	01	ABB
6	63 ABC	Aux. relay for transformer fault Aux. voltage – 24 V DC type – CV2D2j	03	ABB
7	BCS	Breaker control, switch Spring return type, T-N-C	01	SALZER
8	LR	Local remote selector switch Locable with 02 No. + 2 NC element	01	TEKNIC
9	A	Ammeter, 96 x96 mm M1 type scale 0-100A, CT ratio:50/5A	01	AE
10	AS	Ammeter selector switch 4 position off R-Y-B	01	SALZER
11	V	Voltmeter, 96x96 mm M1 Type, scale 0-12 KV P.T. ratio : 11000/110 AC	01	AE



**DKTE CENTRE OF EXCELLENCE IN NONWOVENS, ICHALKARANJI.**

12	VS	Voltmeter selector switch 4 position off RY – YB – BR	01	SALZER
13	LOAD MANAGER	Multi function meter, 96 x96 mm 3 phase, 4wire, 5A Class-0.5, 110 VAC	01	SCHNIEDER /AE / GE / HPL
14	R	VCB on / VCB in test position	02	L & T
	G	VCB off / VCB in service position	02	
	A	VCB auto trip	01	
	W	Trip circuit healthy	01	
	B	VCB spring charged	01	
15	--	11 KV Epoxy insulators	06	Mould Tech
16	MCB	MCB, DP, 16 A for DC circuit	01	L & T / ABB
		MCB, DP, 10 A for AC circuit	01	L & T / ABB
		MCB, SP, 06 A for indication, closing & spring charging	05	L & T / ABB
17	ANN	Annunciator, legends as per drawing With accept / reset / test push buttons 8 window	01	PORTON
18	H	Hooter 24 V DC, 96x96 mm	01	PORTON
19	--	Terminal, For CT / PT disconnected type	18	VINPAR / ELMEX
		End plates for above	01	
		For control circuit CST 2.5	40	
		End plates for above	02	
20	PP	Power pack with battery backup 10 min. back-up, 230 VAC/24VDC	01	ALAN/EQV.
21	PL	Panel lamp with switch	01	REPUTED
22	SPH TH	Space heater, 60 W, 230 V AC with switch thermostat	01	GIRISH EGO SAI EGO
23	--	3 Pin with switch	01	REPUTED
24	--	Wiring, PVC copper flexible wire Control, 1.5 sq.mm. grey for DC Control 1.5 sq.mm. black for AC 230V CT – PT 2.5 sq.mm colour code R / Y / B / GR for earth, grade 1.1 KV	01	REPUTED
25	--	Al. busbar with PVC sleeved Main busbar – 40 x 10 mm 01 Nos. / Phase	01	REPUTED
26		Earth bus : 50 x 05 mm GI	01	REPUTED
27	--	Indoor type, MS cubicle : 14 gauge, Protection class IP 4 x Dimension as per G.A. Drawing	01	HTS

Note : This BOM is only for offer purpose we can change the model/make of switchgear as per the actual condition at the time of manufacturing

### Details of 12 Window Annunciator

Sr.No	Particular	Quantity in Nos
I	Backup protection (O/C + E/F) operated	1
II	Oil Temp Alarm for transformer	1
III	Oil Temp Trip for transformer	1
IV	Winding Temp Alarm for transformer	1
V	Winding Temp Trip for transformer	1
VI	Buchholz Alarm for transformer	1
VII	Buchholz Trip for transformer	1
VIII	OLTC Buchholz Alarm for transformer	1
IX	OLTC Buchholz Trip for transformer	1
X	D.C. low voltage / fail	1
XI	Spare	2
	Total No of Windows	12

### List of Approved makes & Testing of equipments

<b>TRANSFORMER</b>	Crompton, Kirlosker, Volt-Amp, Transformer & Rectifier, Schneider, PETHE, GE, Power Engg., TelwaneCromtek, universal. Company with ISO-9001 certificate and reputed in supplying Distribution Transformer with CPRI / ERDA test certificates. MSEDCL Testing & approval required before supply of Transformer at work to be arranged by supplier.
<b>VACUUM CIRCUIT BREAKER</b>	Siemens, ABB, Crompton, Megawin, Areava, Schneider, GE, Company with ISO-9001 certificate and reputed in supplying VCB with CPRI/ERDA test certificate Testing of equipment at works before dispatch in presence of client representative for approval to be arranges by supplier.
<b>METERING CUBICAL</b>	As per latest specification and approval of MSEDCL, Head office Mumbai & Chief Engineer (Electrical) PWD Department Mumbai. Metering Cubical to be tested at MSEDCL, Testing Division, Kolhapur by Supplier before delivery at Site.
<b>HT / LT Cables</b>	CCI, RPG, Finolex, Primcab, Polycab, KEI,RR,LAPP, Havells. Company with ISO-9001 certificate CPRI / ERDA Test certificates.
<b>Cable Joints</b>	Reychem, Denson, M-seal
<b>FR Wires</b>	Lapp, RR, Finolex, HavellsKEI
<b>Light Fitting</b>	Philips / Wipro/ Bajaj / Crompton / Havells / GE
<b>Switchgear</b>	Siemens / L&T/ Schneider / Legrand / ABB,GE
<b>Florescent Lamp</b>	Osram / Crompton/ Philips/ GE – 36 W , 230 V 3250 Lumen
<b>Electronic Ballast</b>	Osram / Crompton/ Philips/ GE / Intelux/Opal

**DKTE CENTRE OF EXCELLENCE IN NONWOVENS, ICHALKARANJI.**

	24 Months warranty & harmonics less than 10% THD
<b>PVC Pipes</b>	Finolex/ Precision/ ISO-9001 certified
<b>Lighting DB</b>	Siemens / Schneider / Legrand, HAVELL, GE
<b>TOD meter</b>	L & T make
<b>Metering Cubical</b>	Hupen / HTS / HPL
<b>LTPANEL/PDB/FEEDER</b>	Reputed company having ISO 9001/9000-2001 certification and fabrication as per IS 8426.
<b>DIGITAL METERS</b>	Siemens / L&T/ Schneider / HPL / ABB / GE / SYCON

Engineer

Consultant

Principal/ Director

**Note:**

1. All above equipments / materials should be of ISI mark / fire Insurance associates / reputed approved make only. Have ISO 9000 – 2001 Certification
2. A sample of every bought of item for the contracts works even confirming to the above work shall be got approved and shall be kept for inspection.
3. All GI pipes mentioned in the tender shall be Class B only.
4. All the sheet steel sheet fabricated items such as panels DB etc shall be got approved before fabrication and also inspection and testing of panels to be arranged by tenderers and get it approved before installation at site
5. Each tenderer is required to give a list of all items of work giving the makes he intends to use before procurements.