

CHHATTISGARH STATE POWER TRANSMISSION CO. LTD.

(A Govt. of Chhattisgarh undertaking) (A successor Company of CSPTCL)

**OFFICE OF CHIEF ENGINEER (TRANSMISSION)
CHHATTISGARH STATE POWER TRANSMISSION CO. LTD.
DAGANIYA, RAIPUR (C.G.) 492-013**

Phone: 0771- 2574245/ 40, Fax: 0771- 2574246

TENDER SPECIFICATIONS

TR-11/49

FOR

SUPPLY OF

**33/0.4 KV, 200 KVA
Station Transformers**

LAST DATE & TIME OF SUBMISSION OF TENDER

02-02-2012 (TIME 15:00 HRS.)

DUE DATE OF OPENING OF TENDER

02-02-2012 (TIME 15:30 HRS.)

PRICE ₹1000 /-

TENDER NO TR-11/49**INDEX**

Sr. No.	Particulars	Page No.
1	Tender Form	03
2	NIT	04
3	ANNEXURE –I : Special instructions to the bidders	05-06
4	Section - I : General terms & conditions of the tender	07-19
5	Section – II : Technical Specifications	20-24
	SCHEDULES	
6	SCHEDULE I- G.T.P.	25-27
7	SCHEDULE II - Price Bid	28
8	SCHEDULE III-	29
9	SCHEDULE IV	30
10	SCHEDULE V	31-32
11	SCHEDULE VI A	33
12	SCHEDULE VI B	34
13	SCHEDULE VII	35

TENDER FORM**CHHATTISGARH STATE POWER TRANSMISSION CO. LTD., RAIPUR (C.G.)**

Tender document Sl.No.....

ISSUED to M/s -----

Cost of Tender documents Rs.....

Received vide D.D.No.....Dtd.....

Name of Bank -----

**Signature & Seal of Issuing Authority
C.S. Power Transmission Co. Ltd., Raipur**

The undersigned hereby tender and offer (subject to CSPTCL's conditions of tendering), the Chhattisgarh State Power Transmission Co. Ltd. to test and supply, plant, machinery, materials, deliver and execute and do the several works and things which are described or referred to in the enclosures & Annexures to the specification TR-11/49 copies of which are annexed hereto and which under the terms thereof are to be supplied, executed and done by the contractor in a thoroughly good and workman like manner, and to perform and observe the provisions and agreements or the part of the contract contained in or reasonably to the inferred from the said tender documents for the sum and at the rates set out in schedules annexed hereto.

It is confirmed that:

- (i) Questionnaire for Commercial terms and conditions.
- (ii) Questionnaire for Technical specifications of the Equipments, and
- (iii) All other conditions wherever described in the tender documents have been replied in full giving clear details. It has been noted that in case any reply is not given or any reply is incomplete / ambiguous the CSPTCL will have right to take the same to be advantageous for the CSPTCL. CSPTCL's decision in this regard will be final. The bidder will have no right to furnish any technical or commercial clarification after opening of the bid which may in any way alter the offered prices.

Dated, this day of

Tenderer's Signature**Tenderer's Address**

Note:- This form duly signed & stamped should be enclosed with Commercial bid invariably in original i.e. in sheet bearing CSPTCL's officer's sign.

CHHATTISGARH STATE POWER TRANSMISSION CO. LTD.
(A Govt. of Chhattisgarh undertaking) (A successor Company of CSEB)
DANGANIYA, RAIPUR – 492 013 (CG)

Ph. No. 0771- 2574245/ 40

Fax- 0771- 2574246

No. 02-04/NIT/TR-11/47-50/ 4359

Raipur, dtd. 04-01-2012

NOTICE INVITING TENDER

Sealed tenders are invited from **experienced manufacturers** for supplying the following equipments/ material.

Sl. No.	Tender No.	Particulars	Qty	Cost of tender doc.	EMD	Due date
1.	TR-11/47	Transformer oil (Parafin base) Gr.I	217 KL	1,000.00	1,40,000.00	30-01-2012
2.	TR-11/48	220KV Solid core Insulators	500	1,000.00	1,70,000.00	31-01-2012
		132KV Solid core Insulators	570			
		33KV Solid core Insulators	250			
3.	TR-11/49	33/0.4KV, 200KVA Station Transformers	11	1,000.00	46,200.00	02-02-2012
4.	TR-11/50	245 KV SF ₆ Circuit Breaker		2,000.00	2,45,000.00	28-01-2012
		(a) ND (gang operated)	5			
		(b) SPR (reclosing type)	9			

- NOTE:- i) In case any of the above dates is declared as holiday then the particular date will automatically get shifted to next working day.
- ii) The quantities mentioned above are tentative & may vary according to final requirement.
- iii) **Any notice for extension of due date of tender opening shall not be published in newspapers. It will be displayed only on official website of the company.**

TERMS AND CONDITIONS

(i) The tender documents can be obtained from the office of the CE (Transmission) in person on payment of cost of tender documents in the form of MICR DD only made out in the name of Manager (RAO: HQ), CSPTCL, Raipur accompanied with firm's application on its letter head on any working day one day before the due date. If tender document is required by post, `250/- is to be paid along with the cost of documents. If more than one tender document is required, separate DDs should be furnished for each tender. CSPTCL shall not be responsible for any postal delay regarding receipt/ non-receipt of tender documents. The tender document can also be down loaded from official website of CSPTCL (www.cseb.gov.in/csptcl) and required tender fee in form of DD in favour of Manager (RAO: HQ), CSPTCL, Raipur payable at Raipur in envelope-I containing EMD should also be submitted. The details of DD be mentioned on the outer side of the envelope-I also. Please note carefully in absence of aforesaid requisite tender fee in envelope-I, further bids shall not be considered for opening.

(ii) The tenders, duly filled, shall be accepted up to 15:00 Hrs. on the due date. The techno-commercial bids shall be opened at 15:30 Hrs on the due date. CSPTCL reserves the right to accept or reject any or all the offers, in part or full without assigning any reason whatsoever.

Chief Engineer (Transmission)
C.S. Power Transmission Co. Ltd., Raipur

Annexure-I

SPECIAL INSTRUCTIONS TO BIDDERS /TENDERERS

1. The due date of submission of tender is 02-02-2012 till 3.00 p.m. and date of opening of tender is at 3.30 pm in the O/o CE (Trans.), CSPTCL, Raipur.
2. The tender should be dropped in the tender box placed in the O/o CE (Trans.) for this particular tender No. TR-11/49. In case, the tender is sent through post / courier, it will be responsibility of the bidder to drop/ get dropped the tender in the tender box. Receipt of tenders shall not be given in any case. The tender should be dropped before or up to 3.00 pm on due date of submission. Tender box shall be sealed at 03.00 pm and in no case tenders shall be allowed to be dropped after 03.00 pm.
3. **Earnest Money**:-The Earnest Money in the instant tender is ₹46,200.00 (₹ Forty Six Thousand Two Hundred only) payable in the form of demand draft in favour of 'Manager (RAO:HQ), CSPTCL, Raipur'. The other details regarding mode of submission of EMD/ exemption from EMD etc are given in clause No. 5.0 of Section-I "General Terms & Conditions of the Tender".
4. The bidding is open to manufacturers only who can provide satisfactory evidence to substantiate this.

5. **Qualifying Requirements:-**

The bidder is required to furnish notarised documentary proof for having acquired following pre qualifying requirement (PQR):

Sl. No.	Particulars	Documents to be submitted in support (duly notarised copy)
1.	The tenderer should have minimum experience of three years of manufacture & supply of 33/0.4KV 200KVA Station Transformers as on the date of issue of NIT and must have supplied Station Transformers to Indian power utilities i.e. PGCIL, NTPC, State Electricity Board, State Transmission/ Distribution/ Generation Company, Transmission/ Distribution licensee.	Copies of orders issued by power utilities should be furnished in support of experience of minimum three years.
2.	The bidder should have a minimum average annual turn over (MAAT) for best three years out of last five financial years (i.e. 2006-07, 2007-08, 2008-09, 2009-10 & 2010-11) of ₹70.00 lacs.	Copies of the following for last three years duly notarized & certified by Chartered Accountant. (i) Audited Balance sheets (ii) Annual profit & loss statement
3.	The bidder should have all the type test certificates of tendered item/ materials as per relevant standards i.e. ISS/ IEC issued by Govt. standard test laboratory/ NABL accredited laboratory. (not older than five years)	Copy of test reports shall be submitted along with the tender. The type test certificate of tendered item/ materials shall not be more than five years old as on the date of issue of NIT.

6. Only FIRM rates is to be quoted. No price variation shall be admissible.
7. PRICE BID has to be submitted in prescribed format only as per SCHEDULE-II. Ex-works price including packing and forwarding charges should be quoted. Excise duty, sales tax, any other charges & freight charges should be quoted separately. The total F.O.R. destination price should be quoted in the relevant column.
8. The rates quoted in the price bid shall be taken as final for computing the competitive rates and for all purpose.
9. The certified copies of all the type test certificates as per relevant standards i.e. ISS/ IEC issued by Govt. standard test laboratory/ NABL accredited laboratory shall be submitted along with the tender. The type test certificate of tendered item materials shall not be more than 5 years old from the date of opening of the tender. Without the required type test certificate(s), the offer shall be liable for rejection.
10. The tender document shall be available for sale in the Office of CE (Trans.) on payment of the cost of tender document through demand draft / cash payment on all working days up to one day prior to the due date of opening. The tender document shall also be displayed in CSPTCL's website i.e. www.cseb.gov.in/csptcl and bidders may download the tenders from the website directly. In such case, the payment of cost of tender document shall be made through demand draft along with the tender. The details are given in clause No. 7 of Section-I.
11. The CSPTCL reserves the right to reject any or all tenders or accept any tender in full or part, considered advantageous to the CSPTCL, whether, it is lowest or not without assigning any reason whatsoever.
12. **The bidder should ensure following points in order to avoid rejection of tender :-**
 - i) DD towards EMD **OR** proof of exemption valid on due date of opening duly notarised by a public notary is submitted in envelope –I. Please note that in case of exemption claimed from EMD by the SSI units registerd under NSIC/ DIC, the copy of certificate issued by concerned authority alongwith enclosures, in which name of materials for which certificate has been issued should also be furnished. The name of material under tender should appear in this list. Further, the copy of certificate (each page) should bear original signature & seal of the Notary. In case of non compliance of above instructions, tender shall be liable for rejection.
 - ii) DD toward tender document cost, in case tender has been downloaded from our website, is also placed inside envelope-I . In case of non compliance of above instructions tender shall be liable for rejection.
 - iii) Techno-Commercial Bid & price bids are submitted inside envelope II & III respectively . Any discount offered should be inside price bid envelope III only .

Section-I
GENERAL TERMS & CONDITIONS OF THE TENDER

1. Scope :-

The tender specifications shall cover supply of tendered items as per the technical specifications mentioned in Section-II of the tender document.

2. Acceptance of offers:-

While the tenderers may make all out efforts to offer for the complete scope of tender, they may please note that the CSPTCL reserves the right to split the tender into different lots towards supply.

Tenderers are advised to go through the contents of specific requirement for standard conditions very carefully and in absence of non-compliance/ lapse, responsibility for the same will rest on tenderers.

3.1 Extension Order:

The CSPTCL reserves the right to place extension order for supply of 50% additional quantity of material/equipments with associated accessories within six months from date of order and accordingly offered prices should be taken into account for these requirements.

3.2 Price reduction clause:-

In case a fresh tender is issued for the same item before completion of supply against extension order and lower rates are received in the fresh tender. The lower rates received in the fresh tender shall be applicable to the quantity of extension order balance to be supplied also.

4.0 Tenderers are requested to go through our Technical requirement carefully and it may be noted that furnishing of all information as required in various schedules enclosed is a must. In case any of the schedule, duly filled in, is not found furnished as required in the Schedules /Annexure the tender will be treated as incomplete, and will be liable for rejection without any correspondence by the CSPTCL.

5.0 Earnest money deposit:

Please note that techno commercial bid of the tender will not be opened at the time of tender opening if earnest money is not deposited in the form of demand draft as described in clause 3 of annexure-I unless the bidder is exempted from submission of EMD. The exemption from submission of EMD shall be given in the following cases:

- (i) SSI units of Chhattisgarh state permanently registered with DIC. The registration should be permanent & should be specifically for the items quoted in the tender & valid on the date of opening of tender. Copy of certificate duly notarised should be submitted.
- (ii) Small scale units registered with NSIC: - In case of small scale units registered with NSIC, their registration certificates should be valid for the item under tender on due date of opening of Techno-commercial bid. In case the certificate is not valid on due date of opening the tender shall be liable for rejection. *Incomplete certificate should not be submitted. The list of items for which certificate is valid should also be furnished and name of item under tender should appear in this list failing which tender shall be liable for rejection.*

- (iii) Fully owned State Govt /Central Govt. units, if 100% shares are held by the state Govt. concerned for which documentary evidence duly notarised must be furnished with offer.
- (iv) The photocopy of the NSIC/ SSI registration certificate for the tendered item duly notarised by a notary should be furnished with the offer. In case of un notarised copy, the original certificate should be produced at the time of opening for verification failing which their offer will be liable for rejection.

It has been noticed that some bidders submit photocopy of a notarised certificate. This is not acceptable. The photocopy of valid NSIC certificate should bear original signature & stamp of Notary failing which tender shall be liable for rejection.

- (v) The tenderers who come under any of above category must produce documentary evidence failing which offer shall be rejected.

In case the tenderer withdraws his offer during the validity period or after placement of order, the Earnest Money shall be forfeited. EMD of unsuccessful bidders shall be returned on placement of order. EMD of bidder on whom order is placed shall be returned on acceptance of security deposit. No interest shall be paid on the EMD amount.

6. Techno commercial Bid:

6.1 Technical bid:

6.1.1 In this part of bid, tenderer will have to furnish confirmation in regard to all our technical requirements. The bid should clearly describe various technical particulars, as per details given in this specification. Also along with above information all details required in various schedules should be furnished so that the purchaser may be able to examine whether the offer submitted is technically acceptable or not. All relevant technical schedules viz. Guaranteed Technical Particulars, technical deviation etc shall be submitted with the bid.

6.1.2 Completeness of equipment and bought out items : -

The tenderers must furnish the following informations along with technical bid.

- i) The responsibility for obtaining timely supplies of bought out items will rest on the tenderer and only on this basis, delivery period will be offered in the tender.
- ii) It may be noted in the case of damages / shortages due to improper packing or any other negligence, replacement shall be arranged within one month's time. If this is not done, date of delivery of such accessory will be treated as date of delivery of main equipment and full penalty should be recoverable from the tenderer on total cost of the material.
- iii) For bought out items, responsibility for guarantee and obtaining immediate replacement in case any defects are noticed and in case defective supply of any item is reported will rest on the tenderer.
- iv) In case for attending to defect in any equipment or inspection / replacement of the equipment, which may be bought out item for the tenderer; services of engineer of original manufacturer is required, the same will be organised on immediate basis by the tenderer at his cost.

- 6.1.3 It would be obligatory on the part of tenderer to enclose a schedule of Technical deviation in Schedule-VI B in case there are any deviations from our technical requirement. Even if no deviations are involved a separate schedule of deviation for technical particulars should be enclosed wherein a certificate may be recorded that there are no deviations from all our technical requirements. In the event of non-compliance of this instruction, it may be noted that the CSPTCL reserves the right to reject all such offers without assigning any reason or without making any correspondence for obtaining any clarification.

6.2 **Commercial Bid:**

This bid should clearly spell confirmation in regard to various commercial terms and conditions for supply. Basis of price, acceptance of various important terms and conditions for supply and questionnaire for commercial terms and conditions for supply duly filled in will form part of commercial bid. The tenderer, therefore should furnish all informations clearly. All commercial schedules viz. commercial terms & conditions, commercial deviations, tenderers experience, details plan of manufacturing & testing shall be furnished with this bid.

It may please be noted that it is obligatory on the part of tenderer to comply with all our commercial terms and conditions. In particular, specific confirmation towards acceptance of following commercial terms and conditions should be furnished in the tender.

6.2.1 **Prices:**

The prices offered should be in Indian Rupees only. The offered rates should be valid for 180 days from due date of tender. In case of extension in due date of opening, the validity shall be counted from the extended due date on which TC bid has been opened. The prices offered should be Firm .

The prices should be quoted in the proforma given in schedule-II indicating unit ex-works price inclusive of packing & forwarding charges. Excise duty applicable, Sales tax against 'C' form (CST or CGST) & any other taxes/ duties payable by the bidder, freights should be quoted separately in the relevant columns. The freight shall be on FIRM basis irrespective of whether the ex-works prices are firm or variable. It may please be noted that only statutory variations due to Govt. Regulation in the rate of excise duty/ sales tax & other taxes/levies shall be permitted by CSPTCL only within contractual delivery schedule but you would not be entitled for claiming higher rate of excise duty due to change in your turnover. In case supplies against the contract are effected late i.e. beyond contractual delivery period and rate of excise duty/sales tax undergoes upward revision the payment will continue to be made only on the basis of rates prevailing during the contractual delivery period. However, in case the rate of statutory levies undergoes downwards revision than the delayed supplies beyond contractual delivery period will attract reduced rate of levies.

Entry tax, as per the applicable rates, shall be payable by CSPTCL. However, evaluation of comparative rates shall be done considering the total landed cost including entry tax. The counter offer shall be such that the total landed cost including entry tax shall be the same for within and outside state units.

6.2.2 Terms of payment:

100% payment along with all taxes and duties shall be made on production of necessary documents along with material receipt certificate (MRC) from our consignee normally within 30 days time.

The supplier should submit original Material Receipt Certificate issued by the Area Stores along with copies of bill and other necessary documents to Dy. GM (Bills), O/o ED (F&A), CSPTCL, Raipur for arranging payment.

6.2.3 Delivery period:

Delivery of Station Transformer should be commenced within two months from date of order minimum 25% quantity & should be completed within two months thereafter i.e. within total period of four months from date of order. The drawing should be submitted within 10 days from order.

The time and date of delivery of the stores stipulated in the order shall be deemed to be the essence of the contract. In case of delay in execution of the order, the CSPTCL shall either:-

- (i) Recover from the supplier as agreed Penalty /liquidated damages at the rate mentioned in "Penalty" clause.
- (ii) Purchase elsewhere on account and at the risk of the supplier, the stores not delivered or other of similar description or;
- (iii) Cancel the contract.

6.2.4 Penalty:

The time for and the date of delivery of the material stipulated in the order shall be deemed the essence of the contract. In case of delay in execution or non-execution of the order the CSPTCL at its option shall recover from the supplier/contractor as agreed towards liquidated damages a sum of ½ % of the total price of any stores not delivered per week or part thereof up to a maximum of 10%.

For this purpose date of offer for inspection of material in the O/o Chief Engineer (Transmission) shall be considered as the date of delivery subject to condition that offer has been made 15 days in advance of terminal date of scheduled delivery & material is delivered at stores within 21 days of clearance. Please note that in case material is not received within 21 days from date of issue of Dispatch instructions even though the delivery period exists penalty shall be imposed on delay of dispatch.

6.2.5 Guarantee period:

The station transformer supplied shall be guaranteed for performance and quality for a period of 30 months from the date of supply in Store or 24 months from date of commissioning whichever is earlier until and unless any other special guaranteed terms is mentioned in this clause.

In case any defect in the equipment / material is found within guarantee period, the same will be replaced / repaired by you on free of cost basis. The replacement/ repairing will have to be organised by you expeditiously and preferably within one month's time.

If for the purpose of replacement / repairs, the equipment / material is required to be dispatched to your works, all charges towards transportation / insurance / packing / forwarding will have to be paid by you for to and fro dispatches.

In this connection, please note that the following additional conditions will also be applicable in case any damages / defects are noticed in the equipments or its accessories supplied by you.

- (i) If the material develops defect within guarantee period after installation at site, for the purpose of replacement / repairs, the same will have to be dismantled and taken out by us. In such cases actual cost of dismantling and replacement of the equipment / material will also be recoverable from you.
- (ii) In case it is observed that replacement / repairs of equipments or its accessories is not being provided to us within reasonable period and proper response is not received from you, then apart from operating clause of penalty (which provides for imposition of penalty / liquidated damages, risk purchase at your cost and cancellation of contract) the CSPTCL may also take suitable penal action against you which may include debarring you from all future business with the CSPTCL for a period which will be at the discretion of the CSPTCL.
- (iii) In case of replacement/ repair of material due to failure within guarantee period, the guarantee shall automatically get extended. In such case, the equipment shall be guaranteed as per the terms of guarantee with the commencement date of guarantee from the date on which replaced/ repaired equipment/ material has been received.

6.2.6 **Security deposit:**

The supplier has to submit the security deposit in form of cash / Demand Draft / Bank Guarantee for value of order as indicated below to cover performance guarantee period for supply of equipments covered in this specification.

- (i) All the outside state units/ CG state units other than SSI shall be required to pay security deposit @10% of ordered value.
- (ii) The SSI units of CG having annual business with the CSPTCL above ₹50.00 Lacs shall be required to pay Security deposit @7.5% of the value of order. Subject to maximum of Rs. 10.00 Lacs.
- (iii) In case of SSI units of CG whose annual business with CSPTCL is up to ₹50.00 Lacs, they will be required to pay Security deposit @ 5% of the value of order subject to maximum of ₹20,000/- (Twenty thousand only).

6.2.7 **Transit risk:**

- a) Responsibility regarding covering of risk, during transit of material shall entirely be on the supplier. The CSPTCL, shall in any case, not bear the transit risk/transit insurance charges.
- b) Transit damages/ shortages/ losses shall be reported by the consignees within 30 days from the receipt of the consignments. Such damages/shortages/losses shall be repaired/replaced by the suppliers, free of cost within one month from the date of intimation by the consignee without awaiting for the settlement from carrier or insurance company etc. If the supplier fails to do so the consignee(s) shall be free to get the repair work done from other sources and they shall be free to recover the cost of such material/ expenses of repairs either from the supplier/balance bills or from the security deposit as deemed fit.

- c) While the necessary assistance shall be rendered by the consignee in lodging and processing the claims with carriers and the supplier's insurance underwriters, the responsibility shall rest with the supplier to immediately make good the shortages/ losses/ damages, without extra cost and without waiting for the settlement of the claim.
- d) Replacement of goods lost/broken or damaged including loss to fire:-
Notwithstanding anything herein contained, the supplier shall undertake responsibility for the safe arrival of the material in good condition and without any loss or damage at the final destination and until the same is actually delivered to / received by the CSPTCL at its stores or other places of final destination. For this purpose, material carried by Railway or Road transport or other carriers shall be deemed to be so carried at the risk of the suppliers. In the case of transport damages/shortages, the payment shall be made only for the quantity received in good and working condition and consignee shall lodge claim with the supplier/carrier with necessary documents of the same with carriers at supplier's end.

6.2.8 **Deviations:**

It would be obligatory on the part of the tenderer to enclose a separate schedule of deviation, if there are any deviations from our commercial terms / conditions. Even if no deviations are involved, a separate schedule of deviation for commercial conditions should be enclosed wherein a certificate may be recorded that there are no deviations from all our commercial conditions. All tenders, wherein these conditions are not complied with, may run the risk of rejection without any correspondence from our side.

6.2.9 **Unsatisfactory performance:**

The bidder whose equipments are installed in CSPTCL and found to be defective or lying unattended within guarantee or beyond guarantee period if so reported by the field Division their price bid will not be considered for opening.

6.2.10 **Price bid:**

Price bid shall include submission of details of prices as per Schedule-II. No other information should be furnished in the price bid since the same will be opened at a later date. It may be mentioned that no any condition should be recorded in the price bid which may not be in conformity with details furnished in commercial or technical bids, in case of any discrepancy is found suitable loading on prices will be considered for which responsibility will rest on the tenderer. It may please be noted that prices should be offered strictly as per format indicated in schedule-II. No addition/ alteration in the format of schedule-II should be done. In case any discount is offered in the quoted prices, the discount letter should also be furnished within the main price bid envelope only. Any discount letter/ envelope outside the main price bid envelope shall not be considered for evaluation of prices in any case.

7. **Submission of offers:**

The tenderers should submit their bids in four envelopes as under:-

i) **Envelope - I :**

This envelope should contain a covering letter with earnest money or earnest money exemption certificate as detailed in clause 5.0. The cover of the

envelope should be suitably super scribed with the details of earnest money and tender number. The envelope should be sealed properly.

In case the tender document is downloaded from CSPTCL's Website the required cost of tender document in the form of MICR DD drawn in favour of Manager (RAO-HQ), CSPTCL, Raipur should also be kept inside this Envelope. Please note that the tender shall be liable for rejection if

- i) EMD as per tender specification / proof in support of exemption of EMD as per clause 5.0 is not found inside the envelope
and/or
 - ii) In case DD towards tender cost is not found inside this envelope in case tender document is downloaded from website .
- (ii) **Envelope – II:**
This envelope should contain the Technical Bid and commercial bid complete in all respects, in duplicate.
- (iii) **Envelope - III:**
This envelope should contain the Price Bid in duplicate in format of schedule-II complete in all respects. Original & duplicate price bids should be kept inside one envelope only. In case of difference in original and duplicate bid, the contents of original bid will be taken into account. Any discount offered should also be kept inside this envelope only. Any discount offered outside the envelope III shall not be acceptable.
- (iv) **Envelope - IV:-**
This large envelope should contain all the above three envelopes. A certificate in the following format should be recorded on main envelope itself.

TENDER SPECIFICATION No. TR-11/49 DUE FOR OPENING ON 02-02-2012 FOR SUPPLY OF 33/0.4 KV 200 KVA STATION TRANSFORMERS.

In case tender document is downloaded from website the envelope should also be Superscribed "DOWNLOADED FROM WEBSITE –TENDER COST FURNISHED IN ENVELOPE-I"

THIS ENVELOPE CONTAINS THREE ENVELOPES FOR:-

1. Envelop-I : Earnest Money Deposit (and cost of tender document if tender is downloaded).
2. Envelop-II : Technical bid & Commercial Bid
3. Envelop-III : Price Bid

To,

The Chief Engineer (Transmission),
C.S.Power Transmission Co. Ltd.,
Danganiya, RAIPUR (C.G.) 492 013

IT IS CERTIFIED THAT WE AGREE TO THE FOLLOWING CLAUSES OF TENDER SPECIFICATION:-

1	PAYMENT TERMS	AGREED
2	SECURITY DEPOSIT	AGREED
3	PENALTY	AGREED
4	PERFORMANCE GUARANTEE	AGREED
5	TECHNICAL SPECIFICATION	IT IS CERTIFIED THAT THE MATERIAL OFFERED BY US IS STRICTLY AS PER TECHNICAL SPECIFICATION AS STIPULATED IN THIS TENDER AND IN CASE ANY DEVIATION IS OBSERVED LATER ON, WE SHALL BE SOLELY RESPONSIBLE AND THAT OUR TENDER SHALL BE LIABLE FOR REJECTION.

Sign & Seal of tenderer

Tenders being submitted must be signed by a person holding a power of attorney authorising him to do so. The notarised copy of power of attorney should be furnished. Tenders submitted on behalf of company registered under Indian Companies Act shall be signed by persons duly authorised to submit the tender on behalf of the company and shall be accompanied by notarised copy of resolution / abstract of Article of Association/ special or general power of attorney.

8. Opening of tenders:

Part - I i.e. Earnest Money shall be first opened on the due date & time. Part-II i.e. "Technical & Commercial Bid" will be opened thereafter on the same day in respect of the bidders whose EMD are found to be as per Tender specification. These bids will be scrutinized and then we will take decision regarding opening of Part - III price bid in respect of successful tenderers. For the purpose of opening of price bid, a notice of not less than 7 days shall be given to the tenderers so that they may depute their representative for attending price bid opening. It may be mentioned that period of 7 days will be counted from the date of issue of fax intimation by us. Such intimation shall be given within a reasonable period from the date of opening of commercial and technical bids, and after its scrutiny. Only authorised representatives possessing necessary authority letter from the tenderer shall be allowed to participate in the tender.

9. Compliance with other conditions:-

Although all other conditions have clearly been spelt out in the tender document, it is once again brought to the notice of tenderer that they should go through our tender document carefully and comply all other conditions also, like furnishing of type test report, furnishing of list of past supplies, performance certificate, profit and loss account, balance sheet for last three years etc., furnishing of drawing and write up for the manufacturing process. In the nut shell, the offer at the time of submission of Technical and Commercial bid itself should be completed in all respects. It should not be expected that in case of lack of any information, the CSPTCL will make any correspondence with the tenderer. The documents and details as called for in the tender must be submitted without making any reference to submission of such certificate against past order, tender or past experience of supplies with the CSPTCL etc. All tenders wherein these conditions are not complied with, may run the risk of rejection without correspondence from our side.

10. Change of quantity:

The CSPTCL reserves the right to vary the quantities of any or all the items as specified in the technical specifications /schedules as may be necessary based on requirement. No correspondence shall be entered into regarding quantity variation.

11. Inspection:

- a) The CSPTCL shall have access at all times to the works and all other places of manufacture where the equipments are being manufactured and the supplier shall provide all facilities for unrestricted inspection of the suppliers works, raw material, manufacture of all the accessories and for conducting necessary tests as detailed herein.
- b) The successful supplier shall keep the purchaser informed in advance of the time of starting and of the progress of manufacture of equipment in various stages so that arrangements could be made for inspection.
- c) No material shall be dispatched from its point of manufacture unless the material has been satisfactorily inspected and tested by the CSPTCL's representative.
- d) The acceptance of any quantity of equipment shall in no way relieve the successful supplier of his responsibility for meeting all the requirements of this specification and shall not prevent subsequent rejection if such equipment are later found to be defective.
- e) In readiness of material for inspection should be intimated to O/o the CE (Trans.), CSPTCL at least 15 days in advance so that Inspector can be deputed on scheduled date. In case material is not found ready on the intimated date of readiness, the CSPTCL reserves the right to recover from the supplier the charges.
- f) Random testing: The CSPTCL's authorized Inspector shall test the samples selected at random from the material offered for inspection and tests as per relevant ISS shall be conducted on the randomly selected samples. In case, the samples fail to withstand the required tests, the entire lot will be liable for rejection (i.e. unused material so supplied) and the Supplier will have to refund the amount paid including taxes and duties as well as the test charges thereof after inspection. Such quantities are rejected materials identified shall be replaced in full by the supplier at his own cost. CSPTCL will not be responsible for levy of taxes on such rejected material.
- g) Stage inspection:-The CSPTCL reserves the right to carryout stage inspection during manufacture. The inspection will include verification of all raw materials, construction practice, quality control process and inspection of primary and secondary winding before final assembly of equipment. Tenderers will have to confirm that they will render all assistance for this purpose.

12. False inspection call:

In case, the material is not offered for inspection on the date of inspection offered by the firm, due to any reason the firm shall be required to remit a sum of ₹5,000/- or actual expenditure incurred in the visit of the inspector, whichever is more.

13. **Quality assurance plan:**

The supplier shall furnish following information along with his offer, if so desired by CSPTCL. Information shall be separately given for individual type of equipment offered.

- (a) Statements giving list of important raw materials, name of sub-suppliers for the raw material, list of standards according to which the raw material are tested, list of tests normally carried out on raw material in presence of suppliers representative, copies of test certificates.
- (b) Information and copies of test certificates as in (a) above in respect of bought out items.
- (c) List of manufacturing facilities available.
- (d) Level of automation achieved and list of areas where manual processing exists.
- (e) List of areas in manufacturing process where stage inspections are normally carried out for quality control and details of such tests and inspections.
- (f) Special features provided in the equipment to make it maintenance free.
- (g) List of testing equipment available with the supplier for final testing of equipment specified and test plan limitation, if any, vis-a-vis the type/ special acceptance and routine test specified in the relevant standards. These limitations shall be very clearly brought out in schedule of deviations from specified test requirements.

14. **Test certificate:**

Certified copies of type test certificate from Govt. Standard Laboratory/ NABL accredited Laboratory shall be submitted along with the tender failing which the tender will be liable for rejection. The type test certificates of tendered item material shall not be more than 5 years old from date of opening of tender without required type test certificate the offer shall be liable for rejection.

15. **Pool rate / Cartel:**

Formation of tenderer's cartel is strictly prohibited. "Cartel" includes an association of sellers, distributors, traders or service providers who by agreement amongst themselves, limit, control or attempt to control the production, distribution, sale or price of or trade in goods or provision of services, Here, "agreement" includes any arrangement or understanding or action, whether or not is formal or in writing.

Quoting same rates i.e. pool rate is not acceptable. In case the same rate is found to be quoted by more than two bidders, offers of all such bidders shall be out rightly rejected. However, if rates of two bidders are found to be same, quantity of orders to be placed on them will be reduced to half of the quantity a bidder is entitled to be allocated by virtue of their common rank. But, in case of multi-item tender, if rates of even two bidders for more than one item are found to be same, it will be considered as deliberate cartel and offers of both the bidders shall be rejected. Accordingly, all the bidders are advised to quote their own individual and most competitive rates.

Rated received in a tender will be minutely scrutinised to find out as to whether some or all bidders have entered in to any such 'agreement'. If CSPTCL is satisfied with the conclusion that some or all the bidders have formed a cartel, offers of all such bidders shall be rejected.

16. **Amendment in specifications:**
The Company may revise or amend the specification and drawing, prior to the date notified for opening of tender. Such revision/ amendment, if any, will be communicated to all the tenderers as amendment/ addendum to the invitation of tender and the same will be displayed in CSPTCL's website also.
17. **Telex/ telegraphic/ fax bids:**
Telex/ telegraphic/ fax offers will not be considered under any circumstances.
18. **Mistakes in bids:**
Rates should be quoted in both figures and words. In case of ambiguity between rates in figures and words, lower of the two shall be considered. Such offers can also be rejected.
19. **Lump sum based bids:**
In case prices for some items or all items are given as lump sum, instead of unit prices as required in the tender specifications, CSPTCL can summarily reject such incomplete tender.
20. **Printed terms & conditions in bids:**
Supplier's printed terms and conditions will not be considered as forming part tender under any circumstance whatsoever.
21. **Alterations/ correction in bids:**
No alternations in the tender document will be permitted.
22. **Incomplete bids:**
Tender which is incomplete or obscure is liable for rejection.
23. **Ambiguities in conditions of bids:**
In case of ambiguous or self contradictory terms/ conditions mentioned in the bid, interpretations as may be advantageous to the Company may be taken without any reference to the tender.
24. **Disqualification of bids:**
A bid which gets opened before the due date as a result of improper or no indication has been given on the cover to indicate that it is a tender, will be disqualified. Tenderers will not be permitted to change the substance of his tender on post interpretation/ improper understanding grounds. This includes post tender price changes/ modifications etc. after opening of price bid. In such events, otherwise, that is, when a bidder does not comply, tender will be rejected.
25. **Language of bids:**
All tenders should be made either in English or in Hindi only.
26. **Canvassing of bids:**
Tenders shall be deemed to be under consideration, after opening of tender/ bid till placement of order. During this period, the tenderers or their authorised representatives or other interested parties are advised strongly in their own interest, to refrain from contacting by any means any of the CSPTCL's personnel or representative.

27. **Offered quantity:**

It is obligatory to offer at least 25% of the tendered quantity of material. Bids with an offer of less than 25% of tendered quantity shall not be considered.

28. **Cancellation of order:**

28.1 The company may upon written notice of default, terminate contract in the circumstances detailed here under:

- (a) If in the opinion of the Company, the supplier fails to deliver the material within the time specified or during the period for which extension has been granted by the Company.
- (b) If in the opinion of the Company, the supplier fails to comply with any of the other provisions of this contract or material is found not in accordance with prescribed specifications and or the approved samples.
- (c) If as a result of stage inspection, it is revealed that material and / or workmanship is substandard, which is likely to affect the performance of the finished product, a notice would be served by the Company to the supplier to suspend further activities and to take urgent steps towards corrective measures, failing which the entire order would be cancelled.

28.2 In the event of such termination, the CSPTCL shall exercise its discretionary power as:

- (a) To recover from the supplier the agreed liquidated damages as given in the clause No. 6.2.4 above.

or

- (b) To purchase form elsewhere after giving due notice to the supplier on account and at the risk of the supplier such stores/ material not so delivered or others of similar description in respect of consignment not yet delivered.

or

- (c) To cancel the contract reserving Company right to recover damages.

28.3 Notwithstanding that the power under clause (28.2 a, b & c) referred to above, are in addition to the rights and remedy available to the Company under the general law of India relating to contract.

28.4 In the event of risk purchase of stores of similar description, the opinion of the Company shall be final. In the event of action taken under clause 28.2 (a) or (b) above, the supplier shall be liable to pay for any loss, which the Company may sustain on that account but the supplier shall not be entitled to any saving on such purchases made against the default.

28.5 The decision of the Company shall be final regarding the acceptability of the stores supplied by the supplier and the Company shall not be required to give any reasons in writing or otherwise at any time for the rejection of the stores/ material.

28.6 In the event Company does not terminate the order as provided in clause 28.1 & 28.2 above, the supplier shall continue execution of this order, in which case he shall be liable to the CSPTCL for liquidated damages for the delay as per clause 6.2.4 until supplies are accepted.

29. **Arbitration:**

If at any time, any question, dispute or difference, whatsoever shall arise between the Purchase and the supplier, upon or in relation to or in connection with the Contract, either party may forth with give to the other, notice in writing of the existence of such

question, dispute or difference and the same shall be referred to the adjudication of two arbitrators, one to be nominated by the Purchase and the other to be nominated by the supplier or in the case of said arbitrators not agreeing, then to the adjudication of the Umpire to be appointed by the arbitrators, whose decision shall be final and binding on the parties and the provisions of the Indian Arbitration Reconciliation Act 1996, and of the rules there under and any statutory modification thereof shall be deemed to apply. The arbitrators or the Umpire, as the case may be, are bound to give a detailed speaking award assigning reasons for the findings.

Supplies under the contract shall be continued by the Contractor during the arbitration proceedings, unless otherwise, directed in writing by the Purchase or unless the matter is such that the work cannot possibly be continued until the decision of the arbitrators or of the Umpire, as the case may be is issued.

30. **Jurisdiction:**

Any dispute or difference, arising under, out of or about this tender/ contract order shall be subject to exclusive jurisdiction of competent court at Raipur only.

SECTION-II TECHNICAL SPECIFICATIONS

1. SCOPE:-

- 1.1 This specification covers design, engineering, manufacture, assembly, and testing before supply and delivery of the 33/0.415 kV 3 phase, 200 KVA Station transformer complete with all fittings, accessories and associated equipment's for EHV S/s which are required for efficient and trouble free operation.
- 1.2 It is not the intent to specify completely herein all detail of the design and construction of equipments. However, the equipment shall conform in all respects to standards of engineering and shall be capable of performing in continuous operation up to the bidder's guarantee in a manner acceptable to the purchaser, who will interpret the meanings of drawing and specification and shall have the power to reject any work or material which, in his judgement, is not in accordance therewith. The equipments offered shall be complete with all components necessary for their effective and trouble free operation. Such components shall be deemed to be within the scope of bidder's supply, irrespective of whether those are specifically brought out in this specification and/or the commercial order or not.
- 1.3 The transformers shall conform in all respects to high standards of engineering, design, workmanship and latest revision of relevant standards at the time of offer and purchaser shall have the power to reject any work or material which, in his judgement, is not in full accordance therewith.

2. STANDARDS

- 2.1 The transformers and associated accessories shall conform to the latest issues of standards as given below: -

Indian Standard No.	Title	Internationally recognised Standard
IS-2026 (Part I to V)	Power Transformers	IEC-176
IS-3639	Fittings & Accessories for power transformers	IEC-296
IS-335	Insulating oils for Transformers	BS-148
IS-2099	Bushing for alternating voltage above 1000V connections and auxiliary wiring	IEC-137
IS-1886	Code of practice for installtion and maintenance of transformers	BS-223
IS-2147	Degrees of protection	
IS-6600	Guide for loading of oil immersed transformers	BSCP-0160

3. PRINCIPAL PARAMETERS:-

The Station Transformer offered should conform to the following Technical specifications. The Technical specifications of the transformer should be filled in prescribed proforma as per Schedule-II. It may be noted that all particulars must be furnished. The offers not complying this requirement may be rejected.

1.	Reference Standards	IS:2026/IEC 176
2.	Rating	200 KVA
3.	Type of Winding	Copper Wound
4.	Service	Outdoor
5.	Rating Voltage : a) HV Winding KV b) LV Wind KV	33 0.415
6.	Rating Frequency Hz	50
7.	Number of phase	3
8.	Rated current : HV LV	3.5 A 278 A
9.	Connections : a) HV Winding b) LV Winding	Delta Star
10.	Connection symbol	Dyn 11
11.	Type of cooling	ONAN
12.	Tap changing equipment a) Lv -variation +5% to - 5% b) Type c) No. of steps	Off circuit, Bridging 4 steps, 5 position
13.	Guaranteed positive sequence impedance at 75 Deg. C. with 100 % rating at. Principal tap :	4 % tolerance +10% -5%
14.	Temperature rise over an ambient of 50 deg. C. a) Top Oil (if applicable) Deg. C. b) Winding (by resistance measurement method)Deg.C.	40 Deg.C. 45 Deg.C.
15.	Guaranteed losses at rated voltage (excluding cooler loose) on principal tap and at rated frequency. a) No load loss or iron loss. b) Copper loss at full load at 75 Deg. C. c) Total losses	500 W 2000 W 2500 W
16.	Core Material	CRGO
17.	<u>Withstand time for three phase short circuit at terminals (secs.)</u> NOTE:- The X'mer is protected by means of DO fuses as such the fault clearance is not rapid . The X'mer must be designed with proper supports for LV & HV winding with pre-compressed board / permali wood / filling with resin so as to make the wdg immovable.	3 Sec.
18.	No load current at rated voltage and rated frequency.	1 % of full load current
19.	Insulation level a) Separate source power frequency voltage withstand. i) HV Winding (KV rms) ii)LV Winding (KV rms)	95 KV 2 KV

	b) Induced over voltage withstand i)HV Winding (KV rms) ii)LV Winding (KV rms) c) Full wave lightning impulse withstand. i) HV Winding (KVp) ii) LV Winding (KVp)	66 KV 0.83 KV 170 KV --
20.	Over excitation withstand time (sec.) 1)120 % b)150 %	1 Minute 3 Sec.
24.	Proposed method of transformer shipment.	By Road Transport
25.	Total quantity of oil .	Min. 600 Ltrs.
27.	Approximate dimensions a)Tank enclosure (mm) b)Overall L x B x H (mm) NOTE :- The size of tank shall be so decided that a minimum clearance of 75 mm is available at every point between live parts and tank. Minimum phase-to-phase clearance at outer dia of R & Y; Y & B HT coils shall be 40 mm. This shall be specifically checked at the time of inspection.	Please furnish Supplier must confirm this point.
30.	Pressure release device: The X'mer shall be fitted with pressure relief device which will operate at 5 PSI and reset at 1 PSI, in addition to explosion vent.	Please confirm
31.	Tank plate gauge : Top & Bottom Side plates (with stiffeners)	Minimum 6 mm Minimum 4 mm
32.	Top of tank	Slanted to avoid collection of rain water
33.	Oil Parameters	EHV Grade-I as per ISS 335
34.	Bushing characteristics. HV- 36 KV ordinary bushing a. 1 minute Power frequency withstand voltage in KVp b. Lighting Impulse Withstand voltage (KVp) c. Creepage distance	95 KV 170 KV 25 mm/KV
35.	Material used in Bushing rod	Brass
36.	Size of Bushing Rod.	HV- 12 mm LV - 30 mm
37.	Details of provision for shrinkage of winding.	Pre shrinking will be done before final essentially during process.
38.	Type of transformer tank.	Rectangular
39.	Arrangement of clamping of winding ends to bushing terminals.	Brazing through multi paper covered leads.
40	Radiators (minimum)	2 nos on each HV & LV side

- 3.1 Losses of the transformer:** The no load and load losses of transformer at rated voltage at frequency and temperature of 75 dec C should not exceed the limits mentioned at sl. No. 16 of the above mentioned table. Please note that bids with losses higher than the above menitoed limits shall be treated as non –responsive and price bids of such bidders shall not be considered for opening without any correspondence in the matter. The bidders may however offer losses less than the uppger limit of no load & load losses mentioned at sl. No. 16. While evaluating the offers, the loading of losses shall be done and comparative prices shall be arrived on the basis of total owning cost of the transformer as per the following formula:

TOC = IC + (A x Wi) + (B x Wc), where

TOC = Total Owning Cost

IC = Initial cost (including taxes) of transformer as quoted by the manufacturer

A factor = Cost of no load losses in Rs/watt = ₹210.00

B factor = Cost of load losses in Rs /watt = ₹115.00

Wi = No load losses quoted by the manufacturer in watt

Wc = Load losses quoted by the manufacturer in watt

4. FITTINGS & ACCESSORIES:-

The transformer shall be provided with the following fittings and also complete with first filling of oil.

1. Rating and terminal marking plate:- The rating plate should bear following details.
 - i. Purchase order No. and date to be indicated on rating plate.
 - ii. Serial no. of transformer to be indicated on rating plate.
 - iii. Year of manufacture
 - iv. Number of phases
 - v. Rated KVA HV/LV
 - vi. Rated Frequency
 - vii. Rated voltages
 - viii. Rated Currents
 - ix. Guaranteed oil temp rise
 - x. Guaranteed winding temp rise
 - xi. Vector Symbol
 - xii. % Impedance voltage at rated current(corrected at 75 deg)
 - xiii. Connection of copper windings.
 - xiv. Tap position and relative HV/LV voltage.
 - xv. Total Mass
 - xvi. Mass & Volume of Insulating oil
2. Three numbers HV bushings. Bushing should be 36 KV Ordinary Procelain Bushings meeting Technical parameters as mentioned in Principal Parameters. 4 nos. LV bushings. (Bushing should be oil filled non communicating type having their stems sealed at both ends.)
3. Earthing terminals 2 Nos.
4. Tank Lifting lugs 2 Nos.
5. Jacking pads 4 Nos.
6. Silica gel dehydrating breather having min imum 0.5 Kg. Silica gel.
7. Conservator with oil filling cap, drain valve with plug and oil level guage.
8. Pressure release device in addition to Explosion vent with diaphragm).

9. Filter valves (Lower valve to be used as drain valve which should be capable to drain oil completely).
 10. Air release device with cap on tank top.
 11. 4 Nos. Bi-directional flat rollers with cross channels.
 12. Thermometer pocket.
 13. Off-circuit tap changing switch with indicator. Handle and locking devices.
 14. Terminal connectors for HV & LV bushings.(Suitable for Dog conductor & 625 sq.mm Lugs respectively)
- 5. DRAWINGS:-**
The General arrangement drawing of Station transformer showing dimensions, material design used for different components etc should be furnished alongwith Tender.
- 6. TESTING:-**
The notarised copies of all the desired type test certificates from the Govt. standard test laboratory/ Govt. approved laboratory shall be submitted along with the tender for the similar rating of tendered material failing which the tender will be liable for rejection.
- 7. FINISHING:-**
The exterior of transformer and other ferrous fittings shall be thoroughly cleaned, scrubbed and given primary coat and two finishing coats of durable oil and weather resistant paint of enamel.
- 8. INSPECTION: -**
The purchaser shall have access at all times to the works and all other places of manufacture where the transformers are being; manufactured and the supplier shall provide all facilities for unrestricted inspection of the bidder's works, raw materials, manufacture of all the accessories and for conducting necessary tests.
No material shall be dispatched from its point of manufacture unless the material has been satisfactorily inspected and tested as per relevant ISS. The acceptance of any quantity of equipment shall in no way relieve the bidder of his responsibility for meeting all the requirement of this specification and shall not prevent; subsequent rejection if such equipment are later found to be defective. The bidder shall inform the purchaser in advance, about the readiness of equipment so that arrangement can be made for inspection.
- 9. PACKING AND FORWARDING:-**
- 9.1 The equipment; shall be packed in crates suitable for vertical/horizontal transport as the case may be and suitable to withstand handling during transport and outdoor storage during transit. The bidder shall be responsible for any damage to the equipment during transit, due to improper and inadequate packing. The easily damageable material shall be carefully packed and marked with the appropriate caution symbol. Wherever necessary, proper arrangement for lifting, such as lifting hooks etc. shall be provided. Any material found short inside the packing cases shall be supplied by bidder without any extra cost.
 - 9.2 Each consignment shall be accompanied by a detailed packing list containing the following information:
 - a) Name of the purchaser, b) Details of consignment, c) Destination, d) Total weight of consignment, e) sign showing upper/ lower side of the crate, f) Handling & unpacking instructions, g) Bill of material indicating contents of each packing.

SCHEDULE-I
SCHEDULE OF GURANTEED TECHNICAL PARTICULARS

S.N	Particulars	As specified	As offered
1	Name of Manufacturer		
2	Type of Transformer	Outdoor core type	
3.	Reference Standards		
4	Rating	200 KVA	
5.	Type of Winding	Copper wound	
6.	Rating Voltage : a)HV Winding KV b)LV Wind KV	33KV 0.415KV	
7.	Rating Frequency Hz	50 Hz	
8.	Number of phase	3 phase	
9.	Rated current : HV LV	3.5 A 278A	
10	Connections : a)HV Winding b)LV Winding	Delta Star	
11.	Connection symbol	Dyn11	
12.	Type of cooling	ONAN	
13.	Tap changing equipment a)Manufacturer b)Lv -variation +5% to - 5% c)Type d)No. of steps	Paragon or equivalent Off circuit 4 steps 5 position	
14.	Guaranteed positive sequence impedance at 75 Deg. C. with 100 % rating at. Principal tap :	4% tolerance + 10% 5%	
15.	Temperature rise over an ambient of 50 deg. C. a)Oil temperature Deg. C. b)Winding (by resistance measurement method) Deg. C.	40 Deg C. 45 Deg C	
16.	Guaranteed losses at rated voltage (excluding cooler loose) on principal tap and at rated frequency. a)No load loss or iron loss. b)Copper loss at full load at 75 Deg. C. c)Total losses	500W 2000W 2500W	
17.	Core Material	CRGO	
18.	Withstand time for three phase short circuit at terminals (secs.) NOTE:- The Xmer is protected by means of DO fuses as such the fault clearance is not rapid . The Xmer must be designed with proper supports for LV & HV winding with pre-	3 sec.	

	compressed board / permali wood / filling with resin so as to make the wdg immovable.		
19.	No load current at rated voltage and rated frequency.	1%	
20.	Insulation level a)Separate source power frequency voltage withstand. i)HV Winding (KV rms) ii)LV Winding (KV rms) b)Induced over voltage withstand i)HV Winding (KV rms) ii)LV Winding (KV rms) c)Full wave lightning impulse withstand. i) HV Winding (KVp) ii) LV Winding (KVp)	95KV 2KV 66KV 0.83KV 170KV --	
21.	Regulation at full load at 75oC a)At unit power factor (percent) b)At 0.8 power factor (Percent)	Please furnish	
22.	Over excitation withstand time (sec.) a)120 % b)150 %	1 minute 3 sec.	
23.	Proposed method of transformer shipment.	By road transport	
24.	Total quantity of oil .	Min.600 ltr.	
25.	Efficiency at 75 Deg.C a)At full load (%) b)At ¾ full load (%) c)At ½ full load (%)	Please furnish	
26.	Approximate dimensions a)Tank enclosure (mm) b)Overall L x B x H (mm) NOTE:- The size of tank shall be so decided that a minimum clearance of 75 mm is available at every point between live parts and tank. Minimum phase to phase clearance at outer dia of R & Y; Y & B HT coils shall be 40 mm. This shall be specifically checked at the time of inspection.	Please furnish Supplier must confirm this point	
27.	Untanking height	Please furnish	
28.	Approximate weight a)Core and winding (Kg.) b)Tank fittings (Kg.) c)Oil (Kg.) d)Total weight (Kg.)	Please furnish	

29.	Pressure release device: Make, operating & resetting Pressure in PSI	Which will operate at 5PSI & re-set at 1PSI	
30.	Tank plate gauge: i)Top & Bottom ii)Side plates (with stiffeners)	Minimum 6 mm Minimum 4 mm	
31.	Top of tank	Slanted to avoid collection of rain water	
32.	Oil Parameters	EHV Gr.I as per ISS 335	
33.	Bushing characteristics. a. Type b. 1 min dry/wet power freq withstand voltage KVp c. Lighting impulse voltage withstand KVp d. Creepage distance	HV 36KV ordinary bushing 95KV 170KV 25mm / KV	
34.	Material used in Bushing rod	Brass/copper	
35.	Size of Bushing Rod.	HV – 12mm LV – 30mm	
36.	Details of provision for shrinkage of winding.	Pre shrinking will be done during process before final inspection	
37.	Type of transformer tank.	Rectangular	
38.	Arrangement of clamping of winding ends to bushing terminals.	Brazing though multi paper covered leads	
39	Please confirm that Explosion vent is provided in the Xmer	Please confirm (Yes/No)	
40	No. of radiators	Min. 2 nos on each HV & LV side	

Signature of Tenderer

Name :

Company :

SCHEDULE-II
SCHEDULE OF PRICE AND QUANTITY

.No.	Particulars	Qty.	Unit Ex-works price including packing & forwarding in Rs.	Excise duty @ ___ in Rs.	Sales tax @ in Rs.	Unit Freight charges in Rs	Any other charges	Unit F.O.R. destn. price including Excise, Sales Tax and other taxes and freight charges (4+5+6+7+8) in Rs.
1	2		4	5	6	7	8	9
1	200 KVA, 33/0.4 KV Station Transformer meeting Technical Requirements as per Section-II of tender document along with first filling of oil, HV/ LV Bushings, Terminal connectors & other accessories as described in clause (3), section-II of tender specifications	11 No						

Note:

- (i) Any statutory variation in applicable taxes during contractual delivery period shall be payable by CSPTCL.
- (ii) Entry tax, as applicable shall be borne by CSPTCL.

Signature & Seal of Tenderer

SCHEDULE – III**SCHEDULE OF TENDER'S EXPERIENCE**

Tenderer shall furnish here a list of similar jobs executed by him. Please enclose copy of purchase orders along with tender.

Sl. No.	Name & Description of work. (adequate details to be given certifying the work done)	Order No. & date with Qty.	Date of supply	Client or order placing authority	P.O copy enclosed. Yes/No

Signature of Tenderer

Name :

Company :

SCHEDULE- IV
Source of procurement of material

Name of the manufacturer, place of manufacturer, testing and inspection.

S.N.	Description	Manufacturer/ source of procurement of material	Place of manufacturer	Place of testing and inspection

Signature of Tenderer

Name :

Company :

SCHEDULE-V
COMMERCIAL INFORMATION

Strike-off, whichever is not applicable

1.i)	Whether purchased from this office or downloaded?	Yes/No
ii)	If down loaded, whether tender cost ₹1000 furnished? Details of MICR DD for tender cost	Yes/No
iii)	Earnest Money details	
iv)	Amount of EMD and full details	
v)	If exempted, state whether bidder is	SSI Unit of CG / Small scale unit registered with NSIC/ Fully owned State Central Govt. Unit.
vi)	Reference of documentary evidence regarding exemption enclosed (notarized copy) .	Yes /No
2.	Whether the offer is valid for 180 days from the date of opening of commercial /technical bid	Yes /No (If no, state validity period)
3.	State whether the quoted prices are FIRM	Yes /No
4.	Option of Modvat Benefit. Whether benefit of Modvat has been taken into consideration in quoting the rate in price bid	Yes /No
5. a)	Rate of Central Excise duty	
b)	Whether you agree to clause regarding variation in the rates of ED/ST	Yes /No
6.	Rate of Sales Tax on the date of bid	
7.	PAYMENT TERMS:- Whether CSPTCL's terms of payment is acceptable to the tenderer (if no state conditions)	Yes /No
8.	DELIVERY PERIOD:-	
9.	PENALTY CLAUSE Whether agreeable to CSPTCL's Penalty clause	Yes /No
10.	GUARANTEE PERIOD :- Whether agreed to CSPTCL's guarantee period of 30 months from supply. If not mention offered guarantee.	Yes /No
11.	SECURITY DEPOSIT	Yes /No
a.	Whether agreeable to furnish CSPTCL's Standard security deposit @ 10% of value of order for satisfactory execution of the order and to cover guarantee period	
b.	If not, indicate deviation specifically	
12.	EXTENSION ORDER:- Whether you are agreeable to accept extension order for 50% of qty. on the same rates, terms & condition if any extension order is placed within 6 months from the date of placement of detailed order.	Yes /No

13.	Please mention whether rates offered are applicable for part quantities.	Yes /No
14.	Mention Turn over of the firm for last five years (Enclose notarized copy of balance sheets in support)	
(a)	2006-07	
(b)	2007-08	
(c)	2008-09	
(d)	2009-10	
(e)	2010-11	
15.	Year of start of manufacture of offered equipment/ material.	

Place:-

SIGNATURE OF TENDERER:

NAME IN FULL:

Date:-

DESIGNATION/STATUS IN THE FIRM :

COMPANY SEAL:

SCHEDULE-VI-A**SCHEDULE OF COMMERCIAL DEVIATIONS**

We/ I have carefully gone through the Commercial requirement of the specification and the General condition of contract and we/I have satisfied ourselves/myself and hereby conforms to the requirement of technical specification and General Conditions of contract except for the deviations, which are given below:-

Sl. No.	Description & clause no. of the specification and page no.	Stipulation in specification	Deviation offered	Remarks regarding justification of the deviation

Date

Name & seal of the tendering company

SCHEDULE-VI-B**SCHEDULE OF TECHNICAL DEVIATIONS**

We/I have carefully gone through the Commercial requirement of the specification and the General condition of contract and we/I have satisfied ourselves/myself and hereby conforms to the requirement of technical specification and General Conditions of contract except for the deviations, which are given below:-

Sl. No.	Description & clause no. of the specification and page no.	Stipulation in specification	Deviation offered	Remarks regarding justification of the deviation

Date

Name & seal of the tendering company

SCHEDULE-VII**DETAILS OF TYPE & SPECIAL TESTS FURNISHED WITH THE BID**

Sl. No.	Particulars of test	Date of testing	Agency at which tested	Whether copy enclosed
1				
2				
3				
4				
5				

Date

Name & seal of the tendering company
