



**CHHATTISGARH STATE POWER TRANSMISSION CO. LTD.**

(A Govt. of Chhattisgarh undertaking) (A successor company of CSEB)

\*\*\*

**OFFICE OF CHIEF ENGINEER (STORE & PURCHASE)**  
**Third Floor, SLDC Building, Dangania, Raipur(C.G.)-492013**

Phone: 0771- 2574236, 2574240 Fax: 0771- 2574246

Website- [www.cspc.co.in](http://www.cspc.co.in), email- [pp.singh@cspc.co.in](mailto:pp.singh@cspc.co.in)

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**TENDER SPECIFICATION**  
**TR-19/S&P/55**

**PROCUREMENT OF SUPPLY OF 33 KV CT**  
**OF DIFFERENT CURRENT RATIO**

**(Through E-Bidding)**  
**RFX No.8100017288**

**LAST DATE & TIME OF SUBMISSION OF TENDER**  
**28/05/2020 (TIME 15:00 HRS.)**

**DUE DATE OF OPENING OF TENDER**  
**28/05/2020 (TIME 15:30 HRS.)**

Cost of Tender:-i)Rs.1120/- (Rs.1000+Rs. 120 Incl of GST @ 12%)  
(if purchased from O/o CE(S&P)

ii) Rs. 1180/- ( Rs.1000+Rs. 180 Incl of GST 18%)  
(if downloaded from website)

**// SAVE ELECTRICITY, SAVE EARTH //**

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**TENDER FORM**  
**CHHATTISGARH STATE POWER TRANSMISSION CO. LTD., RAIPUR (C.G.)**  
**FOR SUPPLY OF 33 KV CT OF DIFFERENT CURRENT RATIO**

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**

**CHHATTISGARH STATE POWER TRANSMISSION CO. LTD.**  
**RAIPUR C.G. (INDIA)**

**TENDER FORM**

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-19/S&P/55**, 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 be 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**

**CHHATTISGARH STATE POWER TRANSMISSION CO. LTD**

A Govt. of Chhattisgarh undertaking) (A successor company of CSEB)

**CIN- U40108CT2003SGCO15820 / GSTIN-22AADCC5773E1ZX****O/o Chief Engineer (Store & Purchase)**

Third floor, SLDC Building, Danganiya Raipur-492013.

Website- [www.cspc.co.in](http://www.cspc.co.in),

Phone-0771-2574240/36/39/4002

Email id :- pp.singh@cspc.co.in

Fax-0771-2574246

**No.02-16/SE-I-(S&P)/TR-19-S&P-47/50/51/42/52/53/54/55/56/22****Raipur, Dtd 23.04.2020****E-PROCUREMENT TENDER NOTICE**

Sealed tenders are invited from experienced manufacturers/eligible bidders for supply of following equipments/ materials:-

S. N	Tender No.	Particulars	Qty	Cost of tender document including GST (Rs.)		EMD (Rs.)	Due date
				Printed Tender Form	E-Tender Form Online (downloaded from website)		
1	TR-19/S&P/47 RFx No- 8100017282	Repairing of 160 MVA,220/132/33 KV (M/s EMCO make) failed transformer lying at 220/132 KV Urla (Raipur) S/s.	1 No.	2240/-	2360/-	2.00 Lakhs	20/05/2020
2	TR-19/S&P/50 RFx No- 8100017283	Repairing of 40 MVA 132/33 KV ALSTOM make transformer failed at 220 KV S/s Raigarh .	1 No.	1120/-	1180/-	0.52Lakhs	21/05/2020
3	TR-19/S&P/51 RFx No- 8100017284	Repairing of 40 MVA 132/33 KV EMCO make transformer failed at 220 KV S/s Siltara, Raipur	1 No.	1120/-	1180/-	0.52Lakhs	21/05/2020
4.	TR-19/S&P/42 RFx No- 8100017278	Supply, Installation, Testing, Commissioning and Demonstration of Digital level meter cum level generator under PSDF scheme.	7Nos.	1120/-	1180/-	0.37Lakhs	28/05/2020
5.	TR-19/S&P/52 RFx No- 8100017277	Procurement of Sweep Frequency Response Analyzer Kit for Transformer Testing under PSDF scheme	1 No	1120/-	1180/-	0.31Lakhs	23/05/2020
6.	TR-19/S&P/53 RFx No- 8100017274	Procurement of Transformer Oil moisture content measurement kit (PPM Kit) under PSDF scheme.	4Nos	1120/-	1180/-	0.28Lakhs	23/05/2020

7.	TR-19/S&P/54 RFx No- 8100017275	Procurement of SF6 gas filling, evacuation, filtering, drying, pumping & storage plant with spares for five year operation etc under PSDF scheme	5Nos	1120/-	1180/-	1.20 Lakhs	23/05/2020
8.	TR-19/S&P/55 RFx No- 8100017288	Supply of 33 KV Current Transformer	655 Nos.	1120/-	1180/-	1.94 Lakhs	28/05/2020
9.	TR-19/S&P/56 RFx No8100017289	Supply of 33 KV Potential Transformer	282 Nos.	1120/-	1180/-	0.80 Lakhs	28/05/2020

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.

The tender will be processed through e-bidding module of SAP-SRM. Bidders are advised to visit our website [www.cspc.co.in/csptcl](http://www.cspc.co.in/csptcl) for viewing detailed instructions regarding submission of offer through SAP-SRM. The NIT shall also be published in [www.tarang.website](http://www.tarang.website)

// TERMS AND CONDITIONS //

The tender documents can be obtained from the office of the CE (S&P) in person on payment of cost of tender documents in the form of DD only made out in the name of Manager (RAO: HQ), CSPTCL, Raipur accompanied with firm's application on its letter head. If tender document is required by post, Rs.250/- is to be paid by DD additionally 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 in receipt/ non-receipt of tender documents. No receipt of tender shall be issued in any case.

(ii) The tender document can also be downloaded from official website of CSPTCL 'www.cspc.co.in (go through Chhattisgarh State Power Transmission Co. Ltd.- Tender Notice/ Store & Purchase Offices) and required tender fee in form of DD in favour of Manager (RAO:HQ), CSPTCL, Raipur payable at Raipur should be submitted along with EMD in envelope containing DD of EMD. The envelope containing DDs of cost of tender document and EMD should be suitably super scribed "DDs containing cost of tender document and EMD". The details of DDs be mentioned on the outer side of the envelope also. Please note carefully in absence of aforesaid requisite tender fee, further bids shall not be considered for opening.

(iii) Tender document and the details specification can be obtained on any working day one day prior to the due date. The tenders duly filled in shall be dropped/ get dropped in the specified tender box up to 15.00 Hrs on the due date. Any other means of delivery shall not be accepted. No receipt of tender shall be issued in any case. The tender box shall be locked/ sealed at 15.00 Hrs on the due date and shall be opened at 15.30 Hrs on the same date.

(iv) After publication of NIT & before the date of opening of TC bid, corrigendum/ other information (if any) shall be displayed on our official web only. The bidders are requested to remain in contact with this office or visit our web-site for any development/ clarification/ amendment issued subsequently.

(v) CSPTCL reserves the right to accept or reject any or all the offers, in part or full without assigning any reason whatsoever.

Chief Engineer (S&P)  
CSPTCL : Raipur

**Special Instructions to bidders for submission of bid through SAP- SRM  
module  
(e-bidding)**

The tender specification no.TR-19/S&P/55 is to be processed through e-bidding. The bid is to be submitted online as well as offline (hard copy). Details of NIT & Tender Documents are available on our website—<http://www.cspc.co.in> & <http://ebidding.cspcl.co.in:50724/irj/portal>. The bidder may download the same from the above site. In e-bidding portal, tender documents will be displayed in online tender display at Technical RFX section.

Last date & time of submission of bid in hard copy and also in softcopy is 28.05.2020 upto 3.00 pm and due date & time of opening of part –I and part-II of the tender is 28.05.2020 at 3.30 pm.

**Important Instructions :-**

1. Please note that this tender shall be processed online as well as offline. The bidder has to submit all the documents in hard copy as per tender specifications in three envelopes. Besides above, scanned copy of following documents are to be uploaded in e-bidding portal:-

- (a) The scanned copy of DD for tender fee.
- (b) The scanned copy of DD for EMD/ EMD exemption.
- (c) Schedule VI commercial information.
- (d) Schedule (VII) Schedule for commercial deviation.
- (e) Schedule (V) Schedule for Technical deviation.

It may please be noted that only above mentioned documents are to be uploaded in e-bidding portal and no other document is required to be submitted in e-bidding portal. The bidder shall give reply to following questions regarding above documents in e-bidding portal:-

- (i) Whether scanned copy of tender fee DD uploaded. Yes/No
- (ii) Whether scanned copy of DD of EMD /EMD Exemption uploaded. Yes/No
- (iii) Whether scanned copy of Schedules of Commercial information Yes/No
- (iv) Whether scanned copy of Schedules of Commercial deviation Yes/No
- (v) Whether scanned copy of Schedules of Technical deviation Yes/No

- 2) It is not required to upload /attach scanned copy of price bid in Soft/ Hard copy. Only the rates are to be filled in the item tab in e-bid in SAP SRM System (online e-tender). Rates should be quoted online & in specified fields only. Once the rates are filled, the bidders may change their rates up to the due date and time of submission of tender. After due date and time, no change on any ground whatsoever will be accepted.
- 3) After scrutiny of techno-commercial bid, the price bid will be opened in e-bidding system only of eligible bidders for which suitable intimation will be given to the bidders offline & through email.
- 4) Please note that e-mail is always system generated, hence bidders are advised to regularly check their inbox/junk mail box.
- 5) CSPTCL shall not assume any responsibility for non-supporting of system, internet, line & associated hardware & software for bidding their tender. No extension in time shall be granted on such grounds. The bidder should submit their bid well before submission dead line to avoid any system related problem. It is strongly

- recommended not to wait for submission of bid in last minutes as internet/technical problem may disrupt their works.
- 6) Reference time for submission dead line shall be the time displayed in the portal and shall be treated as final.
  - 7) After end of submission dead line, no alteration in the tender will be allowed by the system. However, in case of extension of due date of opening of tender, the bidders will be allowed to submit revised bid in the system.
  - 8) CSPTCL will not accept incomplete bid.
  - 9) The bidder must have a valid Digital Signature & SAP SRM User ID. User ID & Password from CSPTCL and Digital Signing Certificate and Digital Encryption Certificate from any recognized digital signature issuing authority are required for participation in any Tender. The bidder shall intimate in advance regarding details of digital signature issuing authority for ensuring the reliability of the same. For User ID and Password for participating in the tender, the bidder shall register on line through e-bidding portal.
  - 10) The e-bidding vendor user manual displayed on website-<http://ebidding.cspcl.co.in:50700/irj/portal> for the help of the bidders. For any further queries the bidder may contact at Helpline no. 0771-2576672/73 (EITC, CSPDCL, Raipur)
  - 11) The training for bidders will be on every Wednesday from 3.00 pm to 5.00 pm at office premises of Energy Info Tech Center (EITC) at Dangania, Raipur.
  - 12) Tender shall be opened in the scheduled time as notified. If the due date of opening/submission of tender documents is declared a holiday by the Govt. or local administration, it will be automatically shifted to next working day for which no prior intimation shall be given. Tender opening shall be continued on subsequent days, in case the opening of all tenders is not completed on due date because of the technical constraints of system on the day of opening. It may be noted that the due date of opening/time may be altered/ extended if desired by CSPTCL without assigning any reason. However, intimation shall be available on company's tender portal/bidders email (if participation shown). The bidders are requested to keep track of the same.
  - 13) Amendment in tender specification will be published on our website as well as in SRM system and the intimation regarding amendment in date extension will be conveyed through system generated e-mail to registered bidders only.
  - 14) Before participating the bidder shall carefully read all the instructions and processes.
  - 15) Tender duly completed in all respects will be accepted online up to due date & time and will be opened on the due date at specified time in the presence of tenderers or their authorized representatives. In case of authorized representative(s) they shall bring the original authorization letter with their signature attested by the bidder.

**Chief Engineer (S&P)**  
**CSPTrans.CL : Raipur**

## SECTION-I

### SPECIAL INSTRUCTIONS TO BIDDERS

**IMPORTANT:** Except as otherwise provided in any subsequent modification/LOI/Order, the provision of this Section shall have effect notwithstanding anything inconsistent therewith contained in any other Schedule/Annexure/ Clause/ Terms/ Condition of this tender document).

**E-Bidding & Due date:** Please note that the Tender shall be processed through e-Bidding. Instruction to Bidders for submission of Bids through SAP-SRM Module (e-Bidding) are detailed in **instructions to bidders for submission of bid through SAP-SRM module (e-Bidding)**.

1. The bidders are requested to go through these Instructions carefully and submit the tender in e -Bidding portal and also in hard copy accordingly.

Date of submission of tender is 28.05.2020 upto 3.00 PM and tender will be opened on same day at 3.30 PM in the Office of CE (S&P), CSPTCL, Danganiya, Raipur, through E-bidding as per the guidelines .

The Chhattisgarh State Power Transmission Company Ltd., Raipur (or any authority designated) - hereinafter called 'OWNER' or 'CSPTCL' or 'Company' - will receive bids as per the accompanying specification. All bids shall be prepared and submitted in accordance with instructions, terms and conditions stipulated in the tender.

2. **Tender Fee:** - The tender document can also be downloaded from official website of the CSPTCL ([www.cspc.co.in/csptcl](http://www.cspc.co.in/csptcl)). In case bidder chooses to submit his offer on downloaded tender document, they will be required to deposit specified tender fee (cost of tender documents- non refundable) in form of DD in favour of Manager (RAO:HQ), CSPTCL, Raipur payable at Raipur. The bank draft shall be issued from the nationalized/ scheduled bank. **DD should be enclosed with the part I of the tender offer.** In absence of tender fee, offer will not be considered for opening of price bid.

3. (i) **Earnest Money:-** The earnest Money in the instant tender is **Rs 1,94,000 (Rs. One Lakh Ninety Four Thousand only)** payable in the form of demand draft in favor of Manager (RAO : HQ), CSPTCL, Raipur. The other details regarding mode of submission of EMD/ exemption from EMD etc are given in clause No. 5.1 of Section-I “General Terms & Conditions of the Tender”.

(ii) **Goods & Service Tax:-**The bidder should furnish valid GST registration certificate alongwith EMD. In absence of GST registration the offer shall not be accepted.

4. The bidding is open to manufacturers only who can provide satisfactory evidence to substantiate this.

5. **Pre- Qualifying Requirements:-**

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



**(A) Manufacturing & Technical Requirement :-**

**(i) The Bidder should be Indian manufacturer having manufacturing unit in India.** The Bidder should have minimum experience of at least **three** years for supply of 33 KV CT to following Indian entities as on date of NIT.

**(a) Power utilities owned and controlled by Central or State Government Or**

**(b) PSUs Or**

**(c) Govt. Organizations**

Further, the **33 KV CT** should be in successful operation for minimum **2 years** from commissioning as on date of issue of NIT in the aforesaid entities.

**The following documents should be submitted in support of this Manufacturing & Technical Pre Qualifying Requirements:-**

**(a)** As a proof of manufacturing unit the bidder should submit self attested copy of valid NSIC/DIC certificate for **supply of 33 KV CT**. In case the firm is not registered with NSIC/DIC, bidder should furnish self attested copy of Factory License issued by Industries Department of State/Central Govt. for **supply of 33 KV CT**.

**(b)** In support of supply, copies of purchase orders (in the name of manufacturer) and relevant MRCs (Material Receipt certificate) issued by the entities mentioned in clause-5(A) (i) will be submitted. The date of receipt mentioned in the MRC will be treated as actual date of supply. The supply experience as on the date of issue of NIT will be counted from the aforesaid actual date of supply. In case of non-availability of MRC, commissioning certificate/performance certificate may also be treated as proof of actual supply provided it establishes the requirements as per PQR and is issued by an officer not below the rank of Executive Engineer/Manager of the entities mentioned in clause-5(A) (i) of the PQR.

If performance certificate indicates both proof of supply experience of 3 (Three) years or more and satisfactory performance for two years or more, separate MRC will not be required as a proof of supply. However, if only MRC is submitted as proof of supply, performance certificate will have to be submitted separately to establish minimum performance of two years as per PQR. All these documents should be attested by the authorized signatory of the tender.

**(c)** In support of satisfactory performance, a self attested copy of performance certificate issued by the entities mentioned in clause-5(A) (i) of the PQR will be submitted.

**(ii)** The bidder should submit self attested copy of the type test reports of tendered item as per relevant standards i.e. ISS/ IEC carried out at & issued by Govt. standard test laboratory/ NABL accredited laboratory / ILAC accredited laboratories. **The type test certificate shall not be more than 05 years old as on the date of issue of NIT.** Self attested copy of test reports shall be submitted along with the tender.

**(B) Commercial/Financial Requirement:-**

- (i) The bidder should have Minimum Average Annual Turn Over (MAAT) for best three years out of last five financial years i.e. **2014-15, 2015-16, 2016-17, 2017-18 & 2018-19** of **Rs. 2.90 Cr. (Rs. Two Crore Ninety Lakh)** only **duly certified by CA & Self attested copies** of audited Balance Sheet, Annual Profit & Loss Statement and turnover of last five years is to be submitted.

In case bidder is a holding company, MAAT shall be that of holding company only (i.e. excluding its subsidiary / group companies). In case bidder is a subsidiary of a holding company, the MAAT shall be of subsidiary company only (excluding its holding company).

- (ii) Net Worth of bidder for last three financial years i.e. **(2016-17 ,2017-18 & 2018-19)** should be positive. Net worth means the sum total of the paid up capital and free reserves (excluding reserves created out of revaluation) reduced by aggregate value of accumulated losses (including debit balance in profit and loss account for current year) and intangible assets. C.A. audited self attested copy of net worth for the last three financial years is to be submitted.

- (i) **The bidder shall give following self attested undertaking duly certified by CA that:-**

- (a) All payment obligations (principal and/interest) on outstanding debentures have been discharged and no such payment which was due on **31.12.2019** is outstanding/overdue.
- (b) The bidder is presently not in default in payment of any bank loan/interest for more than three months or any loan account of the bidder has not been classified as NPA (Non Performing Asset) by the creditor/lending bank as on date of issue of NIT.

**(C) Other Requirement:-**

- (i) The bidder should not be debarred / black listed by bank/ State Govt./ Central Govt./ State PSU/ CPSU/ SEB/ Public utility as on the date of issue of NIT. However, the bid may not be considered for further processing in following cases also:-

- a) If bidder is debarred /blacklisted by Bank/State Govt./Central Govt./State PSU/CPSU/SEB/Public utility up to date of opening of price bid of the instant tender.
- b) If a case comes to notice regarding submission of forged/fake document in any other tender under process in CSPTCL up to date of opening of price bid of the instant tender.

- (ii) “Any sum of money due to CSPTCL on the date of opening of tender should have been paid/settled in full prior to the date of opening of tender. Price bids of bidders not complying with this requirement shall not be opened. A declaration in this regard shall be furnished by the bidder.

(iii) The bidder shall have to submit pre-contract integrity pact in the format enclosed as **Annexure-II** on non-judicial stamp paper worth Rs.300/- duly signed by the bidder along with the Techno-Commercial bid. The validity of this integrity pact shall be from the date of its signing and extended up to 02 years or the complete execution of the order to the satisfaction of both the Buyer and the Bidder/Seller, whichever is later. In case Bidder is unsuccessful, this Integrity Pact shall expire after six months from the date of its signing. Declaration in this regard shall be furnished by the bidder.

(iv) **All document should be self attested by authorized signatory of the tender only.**

(v) All the documents/statements/attachments/information submitted by the bidder in proof of the qualifying requirements must be authentic/genuine/correct and in case, any of the said documents /statements /attachments /information is found to be false/ fake/misleading the bidder will be disqualified and action will be taken against the bidder as per relevant provision of the tender.

6. The offered prices for **33 KV CT** should be variable as per **IEEMA** price variation formula as per circular enclosed in **Annexure-I** of this specifications with base indices as issued by IEEMA in its circular one month prior to the due date of opening of TC bid. In case of any extension of due date the base date for working out the price variation shall be as per the original due date only.If delivery of material get delayed beyond contractual delivery period, price variation claimed shall be governed as detailed in clause 5.3.1 page-15 of section-I of this specifications.

7. The rates quoted in the price bid (in e-Bidding module only) shall be taken as final. However, in case of any mistakes / errors found in calculation for arriving total value of contract, corrections shall be made for the purpose of computation to decide relative position of bidder. Whereas while placement of order the lowest rate shall be taken.

8. **It is not required to upload /attach scanned copy of price in soft/hard copy. Only the rates are to be filled in the item tab in e-bid in SAP SRM System (online e- bidding portal). The prices should be quoted through SAP SRM system should indicating unit ex-works price inclusive of packing & forwarding charges, GST, freight charges & any other charges should be quoted separately. The freight shall be on FIRM basis irrespective of whether the ex-works prices are firm or variable. The total F.O.R. destination price should be quoted in the relevant column.**

9. It will be presumed that the bidder has taken utmost care while quoting ex-works unit rates and tax rates in the price bid, which shall be considered as base for computation of total prices. However, in case of any arithmetical mistakes/errors in calculation for arriving at total FORD rate, arithmetic corrections shall be made as per the quoted basic rate/ tax rate for the purpose of computation to decide the relative position of bidder. However, for placement of order lower of the two values will be considered.

10. The tender offers of those Bidders, who do not agree to CSPTCL's payments terms, security deposit clause, penalty clause, performance guarantee clause shall be liable for rejection.
11. The tender document shall be available for sale in the Office of CE (S&P),CSPTCL on payment of the cost of tender document through demand draft 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.cspc.co.in](http://www.cspc.co.in) and bidders may download the tender 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. 6 of General Terms & Conditions of the bidders.
12. The Company reserves the right to reject any or all tenders or accept any tender in full or part, considered advantageous to the C.S. Power Transmission Co. Ltd., whether, it is lowest or not without assigning any reason whatsoever.
13. **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 notarized by a public notary is to be submitted in envelope –I. Please note that in case of exemption claimed from EMD by the SSI units registered under NSIC/ DIC, the copy of certificate issued by concerned authority along with 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.  
**The bidder should furnish valid GST registration number and certificate along with EMD. In absence of GST registration the offer shall not be accepted.**
  - ii) DD toward tender document cost, in case tender has been downloaded from our website, is also to be placed inside envelope-I. In case of non compliance of above instructions tender shall be liable for rejection.
  - iii) Techno-Commercial Bid is to be submitted inside envelope II. Envelope I&II should be inside the envelope III.
14. **INTEGRITY PACT :-** The bidder shall have to submit pre-contract integrity pact in the format enclosed as **Annexure -II** on non-judicial stamp paper worth Rs.300/- duly signed by the bidder along with the Techno-Commercial bid. The validity of this integrity pact shall be from the date of its signing and extended up to 02 years or the complete execution of the order to the satisfaction of both the Buyer and the Bidder/Seller, whichever is later. In case Bidder is unsuccessful, this Integrity Pact shall expire after six months from the date of its signing. Declaration in this regard shall be furnished by the bidder.

**15. EXTREMELY IMPORTANT'- Bidders to note this to avoid rejection-**

- i) Attention of bidder is drawn to the fact that no additional/new documents will be allowed to be submitted after bid submission with only exception that clarifications/confirmations on the points which lack clarity after techno-commercial evaluation may be obtained. Bidders are therefore, requested to exercise utmost care to make sure that all the documents required as per eligibility criteria/PQR/techno-commercial requirements of the tender are submitted with their bid on or before the date of bid submission. The bid submission date is a cut-off date for submission of all the documents required as per tender conditions/requirements and the bidder must adhere to this deadline.**
- ii) It may also be noted that if a bidder has quoted 'NIL' deviation in the bid, this will have an overriding effect on any other conditions noted as deviations elsewhere in the bid and no correspondence will be made to withdraw such specific contradictory conditions”.**

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## **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 Bidders 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.  
Bidders 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 Bidders.
- 3. CRITERIA FOR PLACEMENT OF ORDER: -**

The entire tendered quantity will be offered to respective L-1 bidder. The following points will also be considered for placing the orders:-

  - (i) The competitive rates quoted by each Bidder: - The original ranking based on FOR destination rates offered.
  - (ii) The production capacity and past performance as on date of NIT against the tendered material supplied against CSPTCL's orders.
  - (iii) If L-1 rate is not considered to be reasonable ,negotiation will be held with the L-1 bidder only.
- 4.** Bidders 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.
- 4.1 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.

For procurement of singular quantity of material/equipments the extension order clause shall be applicable for 100% additional quantity.
- 4.2 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.
- 5. OFFERS:-** The offer for equipments/materials is required to be submitted in duplicate in separate sealed envelopes for which following details may be noted:-
- 5.1 Part-I: EARNEST MONEY DEPOSIT:**

Please note that techno-commercial bid of tender will not be opened if earnest money is not deposited in form of demand draft for the value mentioned in

tender clause No. 3 of “**SPECIAL INSTRUCTIONS TO BIDDERS**” in the tender, unless exempted by the CSPTCL.

The following are exempted from payment of EMD:-

- 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) Self attested copy of the NSIC/ SSI registration certificate for the tendered item should be furnished with the offer. In case of absence of self attestation, the original certificate should be produced at the time of opening for verification failing which their offer will be liable for rejection.
- v) The Bidders who come under any of above category must produce documentary evidence failing which offer shall be rejected.

**It has been noticed that some bidders submit photocopy of a certificate. This is not acceptable. The NSIC certificate should be self attested failing which tender shall be liable for rejection.**

- vi) **The bidder should furnish valid GST registration number and certificate alongwith EMD. In absence of GST registration the offer shall not be accepted.**

In case the bidder 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.

## **5.2 Part - II (A):- TECHNICAL BID:**

- 5.2.1 In this part of bid, Bidder 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.

**The bidder shall have to submit pre-contract integrity pact in the format enclosed as Annexure-II on non-judicial stamp paper worth Rs. 250/- duly signed by the bidder along with the Techno-Commercial bid.**

### 5.2.2 COMPLETENESS OF EQUIPMENT AND BOUGHT OUT ITEMS: -

The Bidders must furnish the following information along with technical bid.

- i) The responsibility for obtaining timely supplies of bought out items will rest on the Bidder 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 shall be recoverable from the Bidder 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 Bidder.
- iv) In case for attending to defect in any equipment or inspection/replacement of the equipment, which may be bought out item for the Bidder; services of engineer of original manufacturer is required, the same will be organised on immediate basis by the Bidder at his cost.

5.2.3 It would be obligatory on the part of Bidder 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.

### 5.3 Part - II (B) 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. All commercial schedules viz. commercial terms & conditions, commercial deviations, bidders 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 Bidder 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.**

#### 5.3.1 PRICES & TAXES:

The prices offered should be valid for 180 days from due date of tender in Indian Rupees only. Quoted prices for **supply of 33 KV CT of different current ratio** should be **variable as per IEEMA formula** indicated in **Annexure-I** with base indices as issued by IEEMA in its circular one month prior to the due date of opening. In case of any extension of due date the base date for working out the price variation shall be as per the original due date only and the validity of offer shall be counted from the extended due date on which



TC bid has been opened. The payment shall be initially done on the basis of base rates offered by the bidder subject to price adjustment to reflect changes in cost.

It is not required to upload/attach scanned copy of price in soft copy. Only the rates are to be filled in the item tab in e-bid in SAP SRM System (on line e-bidding portal). The prices should be quoted through SAP SRM System should indicating unit ex-works price inclusive of packing and forwarding charges, GST, freight charges & any other charges should be quoted separately. 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 GST shall be permitted by CSPTCL only within contractual delivery schedule. In case supplies against the contract are affected late i.e. beyond contractual delivery period and rate of GST 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/GST.

The following clause regarding price variation shall be applicable:-

The price adjustment shall be invoked by either party subject to the following conditions:-

- i) The payment shall initially be done on the basis of base rate offered by the bidder subject to price adjustment to reflect the changes in the cost. **The price variation shall be applicable on Ex-works component of item only.**
- ii) For calculation of price adjustment date on which the equipment is notified to be ready for inspection at the works of the manufacturer shall be taken as date of delivery provided the material is passed in the inspection and material is received in CSPTCL's Area Stores within 21 days from date of issue of dispatch instructions failing which actual date of receipt of materials shall be treated as date of delivery.
- (iii) In case of delay in supply beyond contractual delivery, price variation up to scheduled delivery date or actual date of delivery, whichever is advantageous to CSPTCL, shall be considered.
- (iv) The bidder shall submit price adjustment invoices for supplies positively within three months from date of supply whether positive or negative. **However, price variation bills submitted after 06 months from the date of supply will not be entertained, but negative variation will be recoverable.** The invoices should be supported with calculation of price variation along with documentary evidence of applicable indices. If price adjustment works out to be positive, the same is payable to contractor by CSPTCL and if it works out to be negative, the same shall be recovered from the contractor. The price variation bills should be submitted to Manager (Bills) O/o GM (Finance), CSPTCL, Raipur.

- (v) In case subsequent to issue of this enquiry IEEMA notifies either modification in prevailing formula or new formula the same shall be applicable.

**5.3.2 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 Manager (Bills), O/o E.D. (Fin.) CSPTCL, Raipur for arranging payment.

**5.3.3 DELIVERY PERIOD:**

The delivery should commence in three months from the date of order with minimum 30% of ordered quantity and further 30 % of ordered quantity should be delivered in the one month thereafter and balance 40% shall be completed within one month thereafter 60 % quantity delivery i.e. a total period of five months from date of order.

The time for 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 “liquidated damages” 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.

**5.3.4 LIQUIDATED DAMAGE:**

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 excluding taxes of any store not delivered per week or part thereof up to a maximum of 10% of contract value excluding taxes.

For this purpose date of offer (date of readiness of material for inspection shall be treated as date of offer) for inspection of material in the O/o CE (S&P) shall be considered as the date of delivery subject to condition that:-

- i) The intimation of readiness of material in respect of each lot should be made atleast 15 days in advance from the scheduled date of completion of supply.
- ii) Material should be delivered at stores within 21 days from issue of dispatch 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 liquidated damages shall be imposed on delay of dispatch.

The inspection offer, apart from postal/courier service shall be invariably Faxed/E-mailed to the CE (S&P) so that ambiguity does not arises for date of offer. In case the inspection offer is not received in the O/o CE (S&P) through

Fax/E-mail the date of receipt of offer letter shall be taken as date of offer for inspection.

### **5.3.5 GUARANTEE PERIOD:**

Equipments offered and associated accessories covered under the tender 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.

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 organized by you expeditiously and in any case 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 & if the same is 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 one month time from date of report of defect to you 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.

(ii) In case of replacement of material due to failure within guarantee period, the guarantee shall automatically get extended. In such case, the material shall be guaranteed as per the terms of guarantee with the commencement date of guarantee from the date on which replaced material has been received.

### **5.3.6 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 outside state units shall be required to pay security deposit @10% of total order value.
- (ii) All the SSI units of CG having annual business (**FY 2018-19**) with successor companies of CSEB above Rs.50 Lacs, shall be required to pay Security deposit @7.5% of the value of order.
- (iii) In case of SSI units of CG whose annual business (**FY 2018-19**) with successor companies of CSEB is up to 50 Lacs, they will be required to

pay Security deposit @ 5% of the value of order subject to maximum of Rs. 20,000/- (Twenty Thousand Only).

- (iv) In support of annual business of SSI units of CG with successor companies of CSEB, the certificate of Chartered Accountant self attested should be furnished. **The bank guarantee shall be submitted within 30 days from date of order and shall be kept valid for guarantee period exceeding claim period of 06 months.** The bank guarantee shall be submitted on stamp paper worth Rs. 250/- or as per the prevailing legal requirements/ any other amount as per the C.G. State Stamp Duty Act and shall be from a Nationalized/ Scheduled Bank in the prescribed form of CSPTCL. No interest shall be paid by CSPTCL on the security deposit. In case of non-fulfillment of contractual obligations by the supplier the security deposit shall be forfeited.

### **5.3.7 TRANSIT INSURANCE & 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 waiting 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.

### 5.3.8 DEVIATIONS:-

It would be obligatory on the part of the Bidder 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.

### 5.3.9 UNSATISFACTORY PERFORMANCE:

The bidders who have supplied material to CSPTCL and have been found to be defective / not rendering satisfactory service within guarantee period and has not been replaced in the stipulated period shall not be considered for opening of price bid.

In addition to the above, the bidders who have supplied material to CSPTCL and if any adverse reports regarding higher rate of failure, poor performance of equipment or defective supply reported from field, the price bid of such bidders shall not be considered for opening. (The cases reported as on date of NIT shall be considered).

### 5.4 Part - III PRICE BID:-

Price bid shall include submission of details of prices as per Schedule-I. **It is not required to upload /attach scanned copy of price in soft /hard copy. Only the rates are to be filled in the item tab in e-bid in SAP SRM System (online e-bidding portal).** The prices should be quoted through SAP SRM system should indicating unit ex-works price inclusive of packing & forwarding charges, GST, freight charges & any other charges should be quoted separately. However, the delivery schedule offered by bidder should be indicated in Part – II(B) “Commercial Bid”. In case of any discrepancy is found suitable loading on prices will be considered for which responsibility will rest on the Bidder.

### 6. SUBMISSION OF OFFERS :-

The Bidders should submit their bids in three envelopes as under:-

#### i) Envelope - I (To contain Part-I of the tender document)

This envelope should contain a covering letter with earnest money or earnest money exemption certificate as detailed in clause (5.1). 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. **The bidder should furnish valid GST registration number & certificate alongwith EMD. In absence of GST registration the offer shall not be accepted.**

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 5.1 of part -I is not found inside the envelope.

**and**

ii) In case DD towards tender cost is not found inside this envelope in case tender document is downloaded from website .

- (i) **Envelope - II** (To contain Part-II of tender document)  
This envelope should contain the Technical Bid and Commercial bid complete in all respects, in duplicate & Integrity pact as per proforma in Annexure -II.
- (ii) **Envelope - III:** This large envelope should contain all the above two envelopes. A certificate in the following format should be recorded on main envelope itself.

**TENDER SPECIFICATION No.TR-19/S&P/55 DUE FOR OPENING ON DTD. . 2020 FOR SUPPLY OF SUPPLY OF 33 KV CT OF DIFFERENT CURRENT RATIO**

**In case tender document is downloaded from website the envelope should also be Superscribed “DOWNLOADED FROM WEBSITE –TENDER COST FURNISHED”**

THIS ENVELOPE CONTAINS TWO ENVELOPES FOR:-

1. Envelop-I- Part -I of tender document i.e. Earnest Money Deposit ,**GST registration certificate** & cost of tender document, if downloaded.
2. Envelop-II- Part – II (A) i.e. Technical bid & Part – II (B) i.e. Commercial Bid & Integrity pact as per proforma in Annexure -II

**To,**  
**The Chief Engineer (Store & Purchase),**  
**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	LIQUIDATED DAMAGE	AGREED
4	PERFORMANCE GUARANTEE & INTEGRITY PACT	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 Bidder***

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.

**7. OPENING OF TENDERS:-**

Part - I i.e. the envelop for Tender Cost (if downloaded) ,Earnest Money & GST registration certificate 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 GST registration certificate is attached , EMD are found to be as per tender specification and tender cost is found to be as per tender.** These bids will be scrutinized and then we will take decision regarding opening of price bid in respect of successful Bidders. For the purpose of opening of price bid, a notice of not less than 7 days shall be given to the Bidders 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 authorized representatives possessing necessary authority letter from the Bidder shall be allowed to participate in the tender.**

**8. 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 Bidder 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 five 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 complete in all respects. It should not be expected that in case of lack of any information, the CSPTCL will make any correspondence with the Bidder. 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 Board/CSPTCL etc. All tenders wherein these conditions are not complied with may run the risk of rejection without correspondence from our side.

**9. CHANGE OF QUANTITY:-**

The purchaser 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.

**10. 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 from 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) The readiness of material for inspection should be intimated to O/o the CE (S&P), 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:**
  - a) The CSPTCL's authorized Inspector shall test the samples selected at random from the material offered for inspection and tests as per relevant ISS/IEC standards shall be conducted at their works on the randomly selected samples. In case, the samples fail to withstand the required tests, the entire lot will be liable for rejection .
  - b) However, inspection of material before dispatch or waiver of inspection will not relieve the supplier from his responsibility to supply the material strictly in accordance with the tender specification.
  - c) If required, the Company may at its option test the samples selected at random from the supplies affected and/or may get the selected samples tested for acceptance / type test as per relevant ISS and Technical specifications at any standard laboratories as deemed fit e.g. CPRI, ERDA etc.
    - i) If the sample passes the test, charges towards testing & transportation shall be borne by CSPTCL & the lot shall be accepted.
    - ii) In case, the samples fail the required tests, supplier will be required to bear all the charges including transportation and taxes etc paid to standard laboratories e.g. CPRI, ERDA etc. towards conducting the tests and the entire lot will be liable for rejection. The supplier will have to replace/repair the whole rejected lot at his own cost.
    - iii) The replaced material, at CSPTCL's option shall be tested for acceptance tests in the Govt. standard laboratory as deemed fit on terms & conditions similar to first testing. If the sample passes the required test, the lot shall be accepted. The charges required for getting the tests conducted shall be borne by CSPTCL. If the sample again fails, the lot shall be rejected & the charges required for getting the tests conducted shall be borne by the supplier and action as per provision of contract shall be taken.
- 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



equipment before final assembly. Bidders will have to confirm that they will render all assistance for this purpose.

**11. 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 Rs.50,000/- plus expenditure incurred towards deployment of officer.

**12. QUALITY ASSURANCE PLAN:**

The supplier shall invariably furnish following information along with his offer, failing which the offer shall be liable for rejection. 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-à-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.

**13. TEST CERTIFICATE:-**

Self attested copies of type test certificate from Govt. standard test laboratory/ NABL accredited laboratory / ILAC accredited laboratories shall be submitted along with the tender failing which the tender will be liable for rejection. The type test certificate of tendered item material shall not be more than 5 years old from date of NIT. Without required type test certificate the offer shall be liable for rejection.

**14. POOL RATE/CARTEL:**

Formation of bidder'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.**

15. **Amendment in specifications:** CSPTCL 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 bidders as amendment/ addendum to the invitation of tender and the same will be displayed in CSPTCL's website also.
16. **Telex/ telegraphic/ fax bids:** Telex/ telegraphic/ fax offers will not be considered under any circumstances.
17. **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, as per provision given in clause 7 of Special Instruction to the bidder. Such offers can also be rejected.
18. **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
19. **Printed terms & conditions in bids:** Supplier's printed terms and conditions will not be considered as forming part tender under any circumstance whatsoever.
20. **Alterations/ correction in bids:** No alternations in the tender document will be permitted.
21. **Incomplete bids:** Tender which is incomplete or obscure is liable for rejection.
22. **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 CSPTCL may be taken without any reference to the tender.
23. **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. Bidders 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.
24. **Language of bids:** All tenders should be made either in English or in Hindi only.
25. **Canvassing of bids:** Tenders shall be deemed to be under consideration, after opening of tender/ bid till placement of order. During this period, the bidders 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.

**26. Cancellation of order:**

- 26.1 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.
- 26.2 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. 4.3.4 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.
- 26.3 Notwithstanding that the power under clause (25.2 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.
- 26.4 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 25.2 (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.
- 26.5 The decision of the CSPTCL 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.
- 26.6 In the event Company does not terminate the order as provided in clause 25.1 & 25.2 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 4.3.4 until supplies are accepted.

**27. 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.

28. **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.

29. **Approval of Drawing :-** The drawings of the ordered material should be submitted to this office within 10 days from the date of order for approval.

30. **Limitation of Liability :-** Except in cases of gross negligence or wilful misconduct,

a) The bidder and CSPTCL shall not be liable to the other party for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the contractor to pay liquidated damages to the CSPTCL

**AND**

b) The aggregate liability of the contractor to CSPTCL, whether under the contract, in tort or otherwise, shall not exceed the total contract price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipments, or to any obligation of the contractor to indemnify CSPTCL with respect to patent infringement.

**CHIEF ENGINEER (S&P)  
CSPTCL : Raipur**

**SECTION-II**  
**TECHNICAL SPECIFICATION FOR**  
**33 KV CURRENT TRANSFORMERS**  
**(Ratio 100-50/1-1-1, 400/1-1-1 800-400/1-1-1-1 A & 1200/1-1-1-1 A**

**SCOPE:**

This specification covers the design, manufacture, and assembly, testing at manufacturer's works, supply and delivery of 33 KV outdoor, single-phase current transformers for solidly grounded system. The required quantities are mentioned in schedule –II.

**1. TECHNICAL SPECIFICATION FOR INSTRUMENT TRANSFORMERS:-**

**1.1 Type & rating:**

The instrument transformers for 33 KV solidly grounded system shall be of outdoor type, oil cooled, single phase, 50 cycles, self cooled and suitable for operating in humid atmosphere and in the tropical sun with ambient temperatures up to 50 degree C. The equipment should be suitable for use in areas subjected to heavy lightening storms.

The principal parameters of the CTs shall be as mentioned in Schedule-I. The bidders are requested to offer their Guaranteed Technical Particulars in Schedule-I exactly in the format prescribed.

**1.2 Special requirement for instrument transformers:**

**1.2.1 Maximum continuous over loading:**

It should be specifically confirmed that CTs are suitable for continuous over loading of 25% of rated primary current. For this purpose, precaution taken in design of equipment may be suitably explained.

**1.2.2 Consistency of accuracy:**

It should be specifically confirmed that with continuous overloading as given in above para, the ratio/phase angle errors of the CTs shall be maintained strictly within specified limits without any drift and no variation shall take place due to overloading condition.

**1.3 Standard:**

The Current Transformers and accessories covered by this specification shall comply with the requirement of the latest edition of the following standards unless otherwise stated in this Specification.

IS / IEC	Title
IS : 2705 (Part-I-IV) :	Specification for Current Transformers.
IEC : 185, IEC-60044 :	Current Transformers
. IS : 4201 :	Application guide for Current Transformers.
IS : 2099 :	Specification for HV porcelain bushings.
IS : 5621 :	Specification for porcelain hollow insulator.
IS : 335 :	Specification for new insulation oil for Transformers and Switchgears
IS : 8603 :	Specification for Dimension for Porcelain Transformer Bushing for use in heavily polluted area.

IS : 3347 :	Specification for Dimension for Porcelain Transformer Bushing for use in normal and lightly polluted area.
IS : 2633 :	Specification for method for testing uniformity of coating on Zinc coated articles.
IS : 5561 :	Specification for Electrical Power Connectors
IS : 2147 :	Specification for Degree of Protection

Equipments meeting the requirement of any other authoritative standards other than ISS which ensure equal or better quality shall also be acceptable. The salient points of difference between the standard opted and the ISS standard given shall be brought out in the tender along with a copy of relevant portions of the said standard.

#### 1.4 CLIMATIC CONDITIONS:-

1	Location	In the state of Chhattisgarh
2	Maximum Ambient Air Temperature	50° C
3	Minimum Ambient Air Temperature	4° C
4	Average daily Ambient Air Temp.	30° C
5	Maximum relative humidity	95%(sometime approaches to saturation)
6	Average no. of thunderstorm days per annum	50
7	Average no. of rainy days per annum	90
8	Average annual rainfall	125 cm.
9	Months of tropical monsoon condition in the year.	June to October
10	Maximum wind pressure.	150 Kg/sq.m.
11	Altitude not exceeding	1000 meters
12	Seismic level (horizontal acceleration)	0.3 g

#### 1.5 Basic design for instrument transformers:

The Instrument Transformers for solidly grounded system shall be outdoor type. Single-phase oil immersed and self cooled type suitable for services indicated as above complete in all respect, conforming to modern practices of design and manufacture.

**Only oil immersed CTs will be acceptable. Polycrystalline insulated or CTs using other insulating media shall not be accepted.**

**The technical parameter of the offered equipment shall confirm the design of the type test submitted with the offer.**

As stated, all CTs shall be paper/polyester insulated, oil filled, dead tank type. The CT after providing polyester/ paper insulation they shall be housed in the tank containing oil. Please note epoxy casting in primary & secondary cores is not acceptable. Compound filled CTs are also not acceptable. Manufacturers should describe complete process of manufacturing.

- 1.5.1 The insulation as per IS: 4800 of the instrument transformers shall be so designed that the internal insulation shall have higher electrical withstand capability than the external insulation. The designed dielectric withstand values of external and internal insulations shall be clearly brought out in the guaranteed

technical particulars. The dielectric withstand values specified in this specification are meant for fully assembled instrument transformers.

1.5.2 **Porcelain Housing:-** The Instrument transformers should be designed using single Porcelain housing.

No metallic joints shall be provided in the porcelain. The housing shall be made of homogeneous, vitreous porcelain of high mechanical and dielectric strength, glazing of porcelain shall be of uniform brown or dark brown colour with a smooth surface arranged to shed away rain water or condensed water particles, (fog). The profile of porcelain shall be aerodynamic type as per IEC-815. To make the instrument transformer leak proof a metallic flange should be cemented to the porcelain.

Details of attachment of metallic flanges to the porcelain shall be brought out in the offer.

1.5.3 **Metal Tank:-** Special precaution will have to be taken towards selection of material for the metal tank and the following will have to be ensured. :

- i) Material for metal tank should be minimum 3 mm thick.
- ii) The material should be clearly mentioned against relevant clause of technical questionnaire.
- iii) CT top/bottom tank gasket mounting surface shall be laser finish smooth.
- iv) Thickness of all the bolt used in the tank shall be galvanized with dia not less than 10 mm.
- v) Welded joints have to be minimized to avoid possibility of oil leakage. In any case welding in horizontal plane shall be avoided.

1.5.4 **Prevention of Oil leakages and Entry of Moisture:-**

a. The CTs when received at site must be completely dry & free from seepage or even the slightest oil leakage. It is our experience that the insulation of CTs with oil leakage deteriorates very fast. As such if any CTs are received in stores which have oil leakage / seepage the same shall not be accepted.

The sealing of CTs shall be properly achieved. The following should be properly taken care of & arrangement provided by the supplier shall be described:

- i) Locations of emergence of primary and secondary terminals.
  - ii) Interface between porcelain housing and metal tank/s.
  - iii) Cover of the secondary terminal box.
- b. For gasket joints, wherever used, nitrite butyl rubber gaskets neoprene or any other improved material shall be fitted in properly machined groove with adequate space for accommodating the gasket under compression.
- The bidder have to justify that the quality of gaskets which will be used between the joints and also for mounting of oil level indicator will be of best quality to avoid leakage of; oil. The quality of gasket should be selected keeping in mind that the ambient temperature in Chhattisgarh now touches 50 deg. centigrade.

However, the flange at the bottom of the solid core insulator in the CT should invariable of round shape with 10 mm dia GI bolts distributed over

the periphery (minimum 8 No.). The flanges of rectangle same shape are not acceptable.

- 1.5.5 During inspection each CTs will be subjected to pressure test at  $0.7 \text{ kg /cm}^2$  for 8 hrs.
- 1.5.6 The Instrument transformers shall be so constructed that it can be easily transported to site within the allowable transport limitation and in **horizontal position**. Even in horizontal position no seepage of oil shall take place from any portion of CT.
- 1.5.7 **ARRANGEMENT FOR COMPENSATION OF OIL VOLUME :-**  
For compensation of variation in the oil volume due to variation in ambient temperature, stainless steel bellows or any other proven suitable arrangement, which may be equal or superior shall be used. Rubber diaphragms shall not be permitted for this purpose. **Rectangular oil level indicator with leak proof Teflon sealing arrangement and wide area visible indication and a float to indicate the oil level. The oil level shall be visible from ground level.**
- 1.5.8 The CTs should be provided with pressure relief diaphragm.
- 1.5.9 **Secondary Terminals Termination:-** The secondary terminals shall be brought out in a weather proof terminal box. Firstly the connections will be terminated on a internal board and then the same shall be brought out in the Secondary terminal box. The terminal box shall be provided with removable gland plate and gland/s suitable for 1100 volts grade, PVC insulated, PVC sheathed multi core 4 or 6 sq. mm cable for CT.  
  
The terminal box shall be dust and vermin proof. Suitable arrangement shall be made for drying of air inside the secondary terminal box. The dimensions of the terminal box and its openings shall be adequate to enable easy access and working space with use of normal tools. The outer cover of secondary terminal box shall have provision for sealing by way of insertion of wire in the bolt hole. A drawing indicating above arrangement may please be furnished along with the offer.
- 1.5.10 **Polarity:-** Polarity shall be invariably marked on each primary & secondary terminals. All marking shall be engraved or through anodized plate to be fixed firmly.
- 1.5.11 **Rating Plate:-** The Instrument transformers shall be provided with a rating plate with dimensions and markings as per IS: 2705. The markings shall be punched/engraved and not painted. This rating plate shall also contain our purchase order no. and date.
- 1.5.12 **Oil filling and Sealing:-** The instrument transformer shall be vacuum filled with oil after processing and thereafter hermetically sealed to eliminate breathing and to prevent air and moisture from entering the tanks. Oil filling valve/or oil sampling cocks, if provided to facilitate factory processing, should be permanently sealed before dispatching. The method adopted for hermetic sealing shall be either Stainless steel bellow or N-2 cushion only.



- 1.5.13  **Casting:-** The castings of base, collar etc. shall be die-cast and tested before assembly to detect cracks and voids if any.
- 1.5.14  **Instrument Security factor:-** The instrument security factor of metering core shall be low enough and not greater than 5. This shall be demonstrated on all the ratios of the metering core, in accordance with procedure specified in IEC-816 or IS: 2705.
- 1.5.15  **Earthing:-** Instrument transformer shall be provided with two separate earthing terminals for bolted connection to 50 x 5 mm MS flat to be provided by the Purchaser for connection to station earth-mat.
- 1.5.16  **Lifting arrangement:-** Instrument transformer shall be provided with suitable lifting arrangement, to lift the entire unit. The lifting arrangement shall be clearly shown in the general arrangement drawing. Lifting arrangement (lifting eye) shall be positioned in such a way as to avoid any damage to the porcelain housing or the tanks during lifting for installation/transport. Necessary string guides shall be offered which shall be of removable type.

## 1.6 Primary windings:

Primary winding shall be made out of electrolytic grade 99.9% conductivity copper. The primary winding shall be housed in rigid metallic shell. Joints in the primary winding shall not be provided. Ratio changing through primary winding is required to be provided. Therefore terminals & ratios changing strip may be accordingly provided.

- 1.6.1 It is desired that from the point of view of adequate mechanical strength in the normal course and also during short circuit, proper precaution should be taken as under :-

- i) The primary winding should be housed in rigid metallic shell.
- ii) The winding assembly should be held firmly and for this purpose suitable clamping arrangement at the bottom shall be provided and explained through suitable sketch. Firm clamping arrangement is a must and holding of winding using nylon rope etc. shall not be acceptable.

- 1.6.2 The primary winding current density shall not exceed 1.5 A/sq. mm. The design density for short circuit current as well as conductivity of the metal used for primary windings of CTs shall meet the requirement of IS: 2705. The supplier in his offer shall submit the detailed calculation for selection of winding cross sections. The selected Amp turns for the CT shall be justified on the basis of Type test reports.

## 1.7 Secondary windings:

Suitably insulated copper wire of 99.9% conductivity electrolytic grade shall be used for secondary windings. The exciting current of the CTs shall be as low as possible. The magnetization curve for all the cores of CTs should be submitted with the offer.

## 1.8 Primary terminals:

Current Transformers, primary terminal shall be made of HDEC. Primary Stud of the CT will be of plain solid round (threading is not required) with Tin Plated Electrolytic Copper having minimum Diameter of 30 mm (**negative tolerance is not allowed**) and minimum outside clear length of 100 mm either side of

transformer tank (i.e after bolt , washer , check nut etc). The primary terminals shall be of heavily tinned electrolytic copper. The minimum thickness of tinning shall be 15 microns.

**1.9 Secondary terminals:**

Secondary terminal studs shall be provided with at least three nuts and adequate plain and spring washers for fixing the leads. The studs, nuts and washers shall be of brass, duly nickel plated. The minimum outside diameter of the studs shall be 8 mm. The length of at least 15 mm shall be available on the studs for inserting the leads. The horizontal spacing between centers of the adjacent studs shall be at least 1.6 times the outside circum dia of the nuts. The arrangement should be shown through suitable sketch.

**1.10 Core:**

The grade M4 toroidal core shall be of high-grade non-ageing electrical silicon laminated steel of low hysteresis loss and high permeability to ensure high accuracy. The instrument transformer core to be used for metering shall be of accuracy class specified or appropriate class suitable for commercial and industrial metering.

Enamel, if used for conductor insulation, shall be either polyvinyl acetate type or amide type and shall meet the requirements of IS: 4800. Polyester enamel shall not be used.

In case of CTs the saturation factor of the metering core shall be low enough not to cause any damage to measuring instruments in the event of maximum short circuit current. As far as PS class core is concerned all precautions shall be taken in design to achieve KPV per Schedule-I & magnetization curve for the same shall be furnished. **It may please be noted that additional devices / components such as condenser/ resistors/ inductor should not be used internally or externally to achieve the accuracy class/ ISF of CTs.**

**1.11 Insulation oil:**

The quantity of oil for first filling of oil in each transformer shall be in the scope of supplier. Only best quality new EHV Gr.I transformer oil should be filled in the equipments with BDV of 70 KV. The BDV of oil filled in the equipment will have to be recorded in the test certificate.

**1.12 Surface finish:**

The metal tanks & all the ferrous parts/hardware, exposed to atmosphere, shall be **hot dip galvanized conforming to IS; 2633**. All other fixing nuts, bolts, washers shall be made out of galvanized MS. However the nuts & washer for primary stud shall be of tinned copper with min 15 micron coatings. CT top/bottom tank gasket mounting surface shall be laser finish smooth.

**1.13 Terminal connectors:**

The terminal connectors required for connection of the current transformer shall be in the bidder's scope. The terminal connectors shall be suitable for Twin Zebra/

Single Zebra ACSR conductor with arrangement of both vertical and horizontal take off. The terminal connector shall conform to the latest version of IS: 5561 or equivalent International Standard. The drawing for terminal connectors is enclosed with bid document for guidance.

The design of clamp shall be to our approval. The details of current take off as required by us should be detailed out in the drawing and should be submitted along with the bid. In respect of the terminal connectors, following should be ensured: -

- a. The terminal connector should be made of A6 Aluminium Alloy and by pressure/gravity die cast only. Sand casted terminal connectors are not acceptable. The current rating of terminal connector will be 1.5 times the rated current. The current density shall not exceed 1 Amp/sqmm in any part.
- b. All castings shall be free from blow holes, surface blisters, cracks and cavities. All sharp edges should be rounded off.
- c. No part of clamp shall be less than 12mm thick.
- d. All current carrying parts shall be designed and manufactured to have minimum contact resistance. The bimetallic strips/sleeve shall be 2 mm thick.
- e. All nuts/bolts/washers shall be made of HDG Mild steel with minimum diameter of 12 mm.
- f. The conductor should be tightened by six bolts. Conductor hold length must not be less than 100mm.
- g. Size of terminal connector for which the clamp is designed and also rated current under site conditions shall be embossed / punched on each part of clamp except hardware.
- h. The surface of clamps to be tightened by six bolts should be flat in shape so that it may be possible to open the nuts and bolts by normal spanners. Therefore, any type of groove in the clamp body for fixing of nuts should be avoided.
- i. The portion of clamp to hold the conductor should be flat and straight and not zig-zag in construction, at both the sides, so that holding of clamp by throttling action of current may be avoided.
- j. Space of at least 50% of diameter of nuts should be available after the hole at both the sides of conductor holding portion for better mechanical strength.

**1.14** The Instrument Transformer shall be suitable for mounting on our steel structure, which shall be arranged by CSPTCL. The mounting details will be provided at the time of placing order.

**1.15 Temperature rise:**

The current transformers shall be designed to limit the temperature of winding and other parts as specified in the standards, when corrected for the difference between the temperature prevailing at site and temperature specified by the standards. The temperature rise at 1.25 times rated primary current when applied continuously at rated frequency and at rated burden shall not exceed the limits specified above.

**1.16 Tests:** The type test reports to be submitted alongwith TC bid for 33 KV CTs shall be as follows:-

- (i) Short time current tests
- (ii) Temperature rise test
- (iii) Lightning impulse voltage test.

- (iv) High voltage Power frequency wet withstand voltage test
- (v) Determination of errors

### **1.17 Acceptance and Routine Tests:**

All acceptance and routine tests as stipulated in the relevant standards shall be carried out in the presence of CSPTCL's representative:

- i) Verification of terminal marking.
- ii) Measurement of Tan Delta value at 27 deg centigrade.
- iii) Power frequency withstand test on primary and secondary winding.
- iv) Partial discharge measurement (as per clause 8.2.2 of IEC 44-1)
- v) Power frequency withstand tests between section (as per clause 8.3 of IEC 44-1)
- vi) Inter turn voltage tests (as per clause 8.4 of IEC 44-1)
- vii) Determination of errors.

**Note:** The 33 KV CTs should have been type tested as per relevant IS & IEC in a NABL accredited lab and type test certificate should be submitted.

**SCHEDULE- I****PRICE AND QUANTITY**

Sl. No	Particulars	Qty (Nos.)	Unit Ex-works price including packing & forwarding in Rs./Nos.	Unit Freight charges in Rs/Nos	GST on (Ex-works Price + Freight charges) @ -----%	Unit F.O.R. destn. price including GST, freight and other taxes (4+5+6) in Rs/Nos.	Total Amount (in Rs)
1	2	3	4	5	6	7	8
A	<b>33 KV CT (as per technical specification)</b>						
1	1200/1-1-1-1 A	<b>27</b>					
2	800-400/1-1-1-1 A	<b>261</b>					
3	400 /1-1-1 A	<b>364</b>					
4	100-50/1-1-1 A	<b>3</b>					

**Note:-**

- The prices offered should be **variable as per IEEMA** with base indices as per the IEEMA circular prevailing as on first day of the month one month prior to the due date opening of tender.
- Only statutory variation due to Govt regulations in GST during Contractual delivery period shall be paid by CSPTCL.
- The rates will be quoted through online e bidding portal ( SAP SRM system) only.Price schedule duly filled in hard copy is not required.**

**SCHEDULE-II  
GUARANTEED TECHNICAL PARTICULARS**

**1) 33 KV CURRENT TRANSFORMERS (1200/1-1-1-1A)**

SN	Particulars	Required specifications for 1200/1-1-1-1A	Offered specifications for 1200/1-1-1-1A
1	Rated System Voltage	33 KV	
2	Highest system voltage	36 KV	
3	Type of CT	Single Phase, Outdoor, Dead tank type	
4	Applicable standard	IS : 2705: 1992 (Part I to IV), IEC-185, IEC-60044	
5	Type of mounting	Pedestal type	
6	Insulation class	A	
7	Ratio:	1200/1-1-1-1 A	
8	No. of secondary winding	4	
9	Class of accuracy (Winding I/II/III/IV)	PS/PS/0.2S/0.2S	
10	Burden for PS/PS/0.2S/0.2S class	.../.../15VA/15VA	
11	Knee point voltage at lowest ratio in volts for PS class	>1200 Volt	
12	Rated continuous thermal current	125% of rated current	
13	1.2/50 micro second lightning impulse withstand voltage in Kvp	170	
14	One minute dry power frequency withstand voltage in KV rms	70	
15	Power frequency withstand voltage for secondary for 1 sec.	3 KV	
16	Short time current rating for 1 sec. duration in KA	25 KA	
17	Rated dynamic withstand current KAp	65.5	
18	Seismic accelerative	0.3 g	
19	Minimum creepage distance	900 mm	
20	Grade of oil	EHV Gr I as per IS:355	
21	Flux density at knee point voltage	1.4 Tesla	
22	Number of primary turns		
23	Current density in primary winding at rated primary current	Max 1.5A / sq mm	
24	Primary to earth insulation resistance at 30°C	Min 50 G Ohm	
25	Instrument security factor for metering core	Max. 5	
26	Exciting current at:		
i.	(a) 20% of knee point voltage	Less than 6 mA	
ii.	(b) 50% of knee point voltage	Less than 15 mA	
iii.	(c) 100% of knee point voltage	Less than 30 mA	
27	Cross section of primary winding	Less than 800 sqmm	
28	No. of secondary turns		
29	Total weight of CT with oil		
30	quantity of oil	>26 Ltrs.	
31	Mounting details: Please confirm	330 mm x330 mm	

	whether suitable for mounting on structure as per enclosed drawing		
32	Over all dimensions		
33	Material of gaskets used	Nitrite butyl rubber/ Neoprine	
34	Oil level indicator	Rectangular oil level indicator with leak proof Teflon sealing arrangement and wide area visible indication and a float to indicate the oil level. The oil level shall be visible from ground level.	
35	Material of primary winding	99.9% electrolytic copper	
36	Material of secondary winding	99.9% electrolytic copper	
37	Core material used	Grade M4 toroidal core of high grade non ageing electrical silicon or better grade (to be detailed in offer)	
38	Material of enamel used	Polyvinyl acetate or amide type.	
39	Earthing terminal arrangements	2 terminal for bolted connection to 65x8 mm MS flat	
40	Terminal connector	Vertical and horizontal takeoff arrangement. The conductor should be tightened by six bolts. Conductor hold length must not be less than 100mm	
41	Accuracy/ ISF	Please confirm that no additional devices/components ( condenser/ resistors/ inductor) are used internally or externally to achieve accuracy class / ISF.	
42	CT top / bottom Gasket mounting surface	Gasket mounting surface shall be smooth leaser cutting finish.	
43	CT mounting frame	Foundation fixing angle 50mmx50mmx5mm	
44	Gasket mounting bolts	Dia of gasket mounting GI bolts shall be 10mm.	
45	Secondary lead out connection	2.5 Sqmm flexible copper wire	
46	CT Sealing arrangement	Bottom tank of the CT shall be provided with 2 Nos. bolt diagonally with holes for sealing arrangement.	
47	Punching of serial number	Serial Number of the CT shall be punched on the Bottom tank	

**It may please be noted that additional devices / components such as condenser/ resistors/ inductor should not be used internally or externally to achieve the accuracy class/ ISF of CTs**

**NAME & SEAL OF THE BIDDER**

## 2) 33 KV CURRENT TRANSFORMERS (800-400/1-1-1-1A)

S. No.	Particulars	Required specifications for 800-400/1-1-1-1 A	Offered specifications for 800-400/1-1-1-1A
1	Rated System Voltage	33 KV	
2	Highest System Voltage	36 KV	
3	Type of CT	Dead tank	
4	Type of mounting	Pedestal type	
5	Highest system voltage	36 KV	
6	Insulation class	A	
7	Ratio:	800-400/1-1-1-1A	
8	No. of secondary winding	4	
9	Class of accuracy (Winding I/II/III/IV)	PS/PS/0.2s/0.2s	
10	Burden for PS/PS/0.2S/0.2S class	.../..../15VA/15VA	
11	Knee point voltage at lowest ratio in volts for PS class	>800 V	
12	Rated continuous thermal current	125% of rated current	
13	1.2/50 micro second lightning impulse withstand voltage in Kvp	170	
14	One minute dry power frequency withstand voltage in KV rms	70	
15	Power frequency withstand voltage for secondary for 1 sec.	3 KV	
16	Short time current rating for 1 sec. duration in KA	25 KA	
17	Rated dynamic withstand current KAp	65.5KAp	
18	Seismic accelerative	0.3 g	
19	Minimum creepage distance	900 mm	
20	Grade of oil	EHV Gr I as per IS:355	
21	Flux density at knee point voltage	1.4 Tesla	
22	Number of primary turns		
23	Current density in primary winding at rated primary current	Max 1.5A / sq mm	
24	Primary to earth insulation resistance at 30°F	Min 50 G Ohm	
25	Instrument security factor for metering core	Max. 5	
26	Exciting current at:		
i.	(a) 20% of knee point voltage	<6mA	
ii.	(b) 50% of knee point voltage	<15 mA	
iii.	(c) 100% of knee point voltage	<30mA	
27	Cross section of primary winding (Sq mm)	550 Sq. mm	
28	No. of secondary turns		
29	Total weight of CT		
30	Quantity of oil	>26 Ltrs	
31	Mounting details: Please confirm whether suitable for mounting on structure as per enclosed drawing	330mmx330mm	
32	Over all dimensions	Please furnish	
33	Material of gaskets used	Nitrite butyl rubber/ Neoprine	
34	Oil level indicator	Rectangular oil level indicator with leak	



		proof Teflon sealing arrangement and wide area visible indication and a float to indicate the oil level. The oil level shall be visible from ground level.	
35	Material of primary winding	99.9% electrolytic copper	
36	Material of secondary winding	99.9% electrolytic copper	
37	Core material used	Grade M4 toroidal core of high grade non ageing electrical silicon or better grade (to be detailed in offer)	
38	Material of enamel used	Polyvinyl acetate or amide type.	
39	Earthing terminal arrangements	2 terminal for bolted connection to 65x8 mm MS flat	
40	Terminal connector	Vertical and horizontal takeoff arrangement. The conductor should be tightened by six bolts. Conductor hold length must not be less than 100mm.	
41	Accuracy/ ISF	Please confirm that no additional devices/components ( condenser/ resistors/ inductor) are used internally or externally to achieve accuracy class / ISF.	
42	CT top / bottom Gasket mounting surface	Gasket mounting surface shall be smooth leaser cutting finish.	
43	CT mounting frame	Foundation fixing angle 50mmx50mmx5mm	
44	Gasket mounting bolts	Dia of gasket mounting GI bolts shall be 10mm.	
45	Secondary lead out connection	2.5 Sqmm flexible copper wire	
46	CT Sealing arrangement	Bottom tank of the CT shall be provided with 2 Nos. bolt diagonally with holes for sealing arrangement.	
47	Punching of serial number	Serial Number of the CT shall be punched on the Bottom tank	

**It may please be noted that additional devices / components such as condenser/ resistors/ inductor should not be used internally or externally to achieve the accuracy class/ ISF of CTs**

NAME & SEAL OF THE  
TENDERING COMPANY

## 3) 33 KV CURRENT TRANSFORMERS (400/1-1-1A)

S. No.	Particulars	Required specifications for 400/1-1-1A	Offered specifications for 400/1-1-1A
1	Rated System Voltage	33 KV	
2	Highest System Voltage	36 KV	
3	Type of CT	Dead tank	
4	Type of mounting	Pedestal type	
5	Highest system voltage	36 KV	
6	Insulation class	A	
7	Ratio:	400/1-1-1A	
8	No. of secondary winding	3	
9	Class of accuracy (Winding I/II/III)	PS/0.2s/0.2s	
10	Burden for PS/0.2s/0.2s class	.../15VA/15 VA	
11	Knee point voltage at lowest ratio in volts for PS class	>400 V	
12	Rated continuous thermal current	125% of rated current	
13	1.2/50 micro second lightning impulse withstand voltage in Kvp	170	
14	One minute dry power frequency withstand voltage in KV rms	70	
15	Power frequency withstand voltage for secondary for 1 sec.	3 KV	
16	Short time current rating for 1 sec. duration in KA	25 KA	
17	Rated dynamic withstand current KAp	65.5KAp	
18	Seismic accelerative	0.3 g	
19	Minimum creepage distance	900 mm	
20	Grade of oil	EHV Gr I as per IS:355	
21	Flux density at knee point voltage	1.4 Tesla	
22	Number of primary turns	--	
23	Current density in primary winding at rated primary current	Max 1.5A / sq mm	
24	Primary to earth insulation resistance at 30°F	Min 50 G Ohm	
25	Instrument security factor for metering core	Max. 5	
26	Exciting current at:		
i.	(a) 20% of knee point voltage	<6mA	
ii.	(b) 50% of knee point voltage	<15 mA	
iii.	(c) 100% of knee point voltage	<30mA	
27	Cross section of primary winding (Sq. mm)	275 Sq. mm	
28	No. of secondary turns	--	
29	Total weight of CT with oil	>120 KG	

30	Total quantity of oil	>20 Ltr.	
31	Mounting details: Please confirm whether suitable for mounting on structure as per enclosed drawing	330mmx330mm	
32	Over all dimensions	Please furnish	
33	Material of gaskets used	Nitrite butyl rubber/ Neoprine	
34	Please confirm whether a clear glass window for indication of oil level has been provided	Rectangular oil level indicator with leak proof Teflon sealing arrangement and wide area visible indication and a float to indicate the oil level. The oil level shall be visible from ground level.	
35	Material of primary winding	99.9% electrolytic copper	
36	Material of secondary winding	99.9% electrolytic copper	
37	Core material used	Grade M4 toroidal core of high grade non ageing electrical silicon or better grade (to be detailed in offer)	
38	Material of enamel used	Polyvinyl acetate or amide type.	
39	Earthing terminal arrangements	2 terminal for bolted connection to 65x8 mm MS flat	
40	Terminal connector	L-shape copper terminal connector shall be provided with 2 No. nuts of size 80mm X 12mm copper nut and a check nut on both side of stud.	
41	Accuracy/ ISF	Please confirm that no additional devices/components ( condenser/ resistors/ inductor) are used internally or externally to achieve accuracy class / ISF.	
42	CT top / bottom Gasket mounting surface	Gasket mounting surface shall be smooth laser cutting finish.	
43	CT mounting frame	Foundation fixing angle 50mmx50mmx5mm	

44	Gasket mounting bolts	Dia of gasket mounting GI bolts shall be 10mm.	
45	Secondary lead out connection	2.5 Sqmm flexible copper wire	
46	CT Sealing arrangement	Bottom tank of the CT shall be provided with 2 Nos. bolt diagonally with holes for sealing arrangement.	
47	Punching of Serial number	Serial Number of the CT shall be punched on the Bottom tank	

NAME & SEAL OF THE  
TENDERING COMPANY

**4) 33 KV CURRENT TRANSFORMERS (100-50/1-1-1A)**

S. No.	Particulars	Required specifications for 100-50/1-1-1A	Offered specifications for 100-50/1-1-1A
1	Rated System Voltage	33 KV	
2	Highest System Voltage	36 KV	
3	Type of CT	Dead tank	
4	Type of mounting	Pedestal type	
5	Highest system voltage	36 KV	
6	Insulation class	A	
7	Ratio:	100-50/1-1-1 A	
8	No. of secondary winding	3	
9	Class of accuracy (Winding I/II/III)	PS/PS/0.2s	
10	Burden for PS/PS/0.2s class	.../.../15 VA	
11	Knee point voltage at lowest ratio in volts for PS/PS/0.2s class	600 V	
12	Rated continuous thermal current	125% of rated current	
13	1.2/50 micro second lightning impulse withstand voltage in Kvp	170 KV	
14	One minute dry power frequency withstand voltage in KV rms	70 KV (rms)	
15	Power frequency withstand voltage for secondary for 1 sec.	3 KV	
16	Short time current rating for 1 sec. duration in KA	25 KA	
17	Rated dynamic withstand current KAp	65.5KAp	
18	Seismic accelerative	0.3 g	
19	Minimum creepage distance	1810 mm	
20	Grade of oil	EHV Gr I as per IS:355	
21	Flux density at knee point voltage	--	
22	Number of primary turns	--	
23	Current density in primary winding at rated primary current	As per Note 1	
24	Primary to earth insulation resistance at 30°F	Min 50 G Ohm	
25	Instrument security factor for metering core	Max. 5	
26	Exciting current at:	As per IS	
i.	(a) 20% of knee point voltage	<6mA	
ii.	(b) 50% of knee point voltage	<15 mA	
iii.	(c) 100% of knee point voltage	<30mA	
27	Cross section of primary winding (Sq. mm)	-	
28	No. of secondary turns	--	
29	Total weight of CT with oil	>100 KG	

30	Total quantity of oil	As per design.	
31	Mounting details: Please confirm whether suitable for mounting on structure as per enclosed drawing	330mmx330mm	
32	Over all dimensions	Please furnish	
33	Material of gaskets used	Nitrite butyl rubber/ Neoprine Rubber cork	
34	Please confirm whether a clear glass window for indication of oil level has been provided	Rectangular oil level indicator with leak proof Teflon sealing arrangement and wide area visible indication and a float to indicate the oil level. The oil level shall be visible from ground level.	
35	Material of primary winding	99.9% electrolytic copper	
36	Material of secondary winding	99.9% electrolytic copper	
37	Core material used	Grade M4 toroidal core of high grade non ageing electrical silicon or better grade (to be detailed in offer)	
38	Material of enamel used	Polyvinyl acetate or amide type.	
39	Earthing terminal arrangements	2 terminal for bolted connection to 65x8 mm MS flat	
40	Terminal connector	Primary terminal size M-16X 80 mm long with bimetallic terminal connector. Dog / Panther (or as per requirement of CSPTCL).	
41	Accuracy/ ISF	Please confirm that no additional devices/components ( condenser/ resistors/ inductor) are used internally or externally to achieve accuracy class / ISF.	
42	CT top / bottom Gasket mounting surface	Gasket mounting surface shall be smooth laser cutting finish.	
43	CT mounting frame	Foundation fixing angle 50mmx50mmx5mm	

44	Gasket mounting bolts	Dia of gasket mounting GI bolts shall be 10mm.	
45	Secondary lead out connection	2.5 Sqmm flexible copper wire	
46	CT Sealing arrangement	Bottom tank of the CT shall be provided with 2 Nos. bolt diagonally with holes for sealing arrangement.	
47	Punching of Serial number	Serial Number of the CT shall be punched on the Bottom tank	

Note 1 : Primary copper cross section shall be selected as per calculation of STC type tested CT or maximum current density whichever is greater.

NAME & SEAL OF THE  
TENDERING COMPANY

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

Tenderer shall furnish here a list of similar jobs executed by him. A reference may be made by the purchase to them in order be considers such a reference necessary.

Sl. No.	Name & Description of work. (adequate details to be given certifying the work done)	Order No. & date	Period & date of supply	Client or order placing authority	Person to whom reference to be made

**Signature of Tenderer**

**Name :**

**Company :**



**SCHEDULE- IV****Name of the manufacturer, place of manufacturer, testing and inspection**

S. No.	Description	Manufacturer	Place of manufacturer	Date of testing and inspection

**Signature of Tenderer****Name :****Company :**

**SCHEDULE-V****COMMERCIAL INFORMATION**

1.i)	Whether purchased from this office or downloaded?	Yes/No
ii)	If down loaded, whether tender cost furnished? Details of MICR DD for tender cost	Yes/No
iii)	Earnest Money details	
iv)	Amount of EMD	Rs.
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	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. (A)	State whether the quoted prices are variable as per IEEMA formula with base indices as per IEEMA circular issued one month prior to due date of opening as per Annexure-I	Yes /No
(B)	Whether agreeable to clause 5.3.1 (iii) page 14 The bidder shall submit price adjustment invoices for supplies positively within three months from date of supply whether positive or negative. <b>However, price variation bills submitted after 06 months from the date of supply will not be entertained, but negative variation will be recoverable.</b> The invoices should be supported with calculation of price variation along with documentary evidence of applicable indices. If price adjustment works out to be positive, the same is payable to contractor by CSPTCL and if it works out to be negative, the same shall be recovered from the contractor	
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 GST (Good & Service Tax)	
6.	PAYMENT TERMS:- Whether CSPTCL's terms of payment is acceptable to the bidder (if no state conditions)	Yes /No
8.	DELIVERY PERIOD:-	
(a)	Commencement of supplies from date of order	
(b)	Completion & supply rate from the date of order.	
8.	LIQUIDATED DAMAGE CLAUSE Whether agreeable to CSPTCL's Penalty clause	Yes /No
9.	GUARANTEE PERIOD :- Whether agreed to CSPTCL's guarantee period of	Yes /No

	30 months from supply or 24 months from date of commissioning whichever is earlier. If not mention offered guarantee.	
10.	<b>SECURITY DEPOSIT</b>	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	
11.	<b>EXTENSION ORDER:-</b>	Yes /No
	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.	
12.	Please mention whether rates offered are applicable for part quantities.	Yes /No
13.	Mention Turn over of the firm for last five years (Enclose balance sheets in support)	
(a)	2014-15	
(b)	2015-16	
(c)	2016-17	
(d)	2017-18	
(e)	2018-19	
14.	Year of start of manufacture of offered equipment/ material.	
15.	Whether C.A. audited self attested copy of net worth for the last three financial years is submitted.	
16.	Whether submitted self attested copy of undertaking duly certified by CA stating that a) All interest payment obligations on outstanding debentures have been discharged and no such payment as on <b>31.12.2019</b> is/was outstanding / overdue. b) Company is presently not in default in repayment of bank loan and has not been taken up for CDR/SD	
17.	Whether submitted Pre – contract Integrity pact	

**NOTE:- Scanned copy of this schedule is to be uploaded in e-bidding portal.**

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

Dated  
Place

Name and seal of the tendering Company.

**NOTE:- Scanned copy of this schedule is to be uploaded in e-bidding portal.**

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

We/I have carefully gone through the Technical specification and the General condition of contract and we/ I have satisfied ourselves/ myself and hereby conform 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 & page no.	Stipulation in specification	Deviation offered	Remarks regarding justification of the deviation

Dated

Name and seal of the tendering Company

**NOTE:- Scanned copy of this schedule is to be uploaded in e-bidding portal.**

**SCHEDULE-VII**  
**GENERAL INFORMATION**

The bidders shall furnish general information in the following format:-

1. Name of the Firm
2. Head Office address
3. Works address
4. Contact Person
5. Mobile No. of contact person
6. Telephone No. Office
7. Telephone No. Residence
8. Fax No.
9. E-mail:-
10. PF / ESIC Registration No.

Dated

Place

**Name and seal of the tendering  
Company.**

**ANNEXURE -I**

Cir. No.: 301/DIV/INTF/05

August 29, 2005

**To All members of Instrument Transformer Division  
To all State Electricity Boards, Utilities and Other Purchasing organizations**

**Sub: Price variation clauses for Instrument Transformer**

We request you to recall that IEEMA had circulated new price variation clauses for Instrument Transformers- (Below 72.5 KV and 72.5 KV & Above) in 'Draft' format vide Circular No. 225/DIV/INTF/05 dated June 28, 2005. We did not receive any comments/suggestions. As such Instrument Transformer division has decided to make them operational.

Instrument Transformer division have been discussing and debating for last 6 months about revising Price variation clauses of Instrument Transformers. They have decided to follow similar approach adopted by Transformer division while evolving Transformer PV clauses.

The main highlights were selection of basic raw materials of internationally known reliable sources and design of PV formula giving separate weightages of each component/raw material.

Members have also decided to use IEEMA Index of Insulator to represent Insulator component.

We are enclosing herewith a set of two PV clauses applicable for Instrument Transformers- Below 72.5 KV and 72.5 KV & Above. You will observe that new PV clauses have been made effective from 1<sup>st</sup> June 2005.

We are therefore enclosing Cir. No. IEEMA(PVC)/CTPT/JUNE-AUGUST 2005 giving applicable prices/indices for the period June 2005 to August 2005. From September 2005, we shall circulate these prices/indices every month.

We request you to incorporate these new PV clauses in your future contracts.

For the settlement of pending contracts, we will also circulate prices/indices applicable for old PV clauses (effective from 1<sup>st</sup> January 2001) for some period. Thereafter, we will withdraw the circulars applicable for old PV clauses.

**Executive Officer**

Encl: a) Price variation clauses for Instrument Transformers effective from 1<sup>st</sup> June 2005  
b) Applicable basic prices/indices circular for the period June to August 2005.

Nr/c:\mydoc\ctpt\_PVC\_2005.doc

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Indian Electrical & Electronics Manufacturers' Association  
An ISO 9001 Organisation



Your Link to Electricity

IEEMA/PVC/INST.TR (BELOW 72.5 KV)/2005

Effective from: 1<sup>st</sup> June 2005

**PRICE VARIATION CLAUSE FOR INSTRUMENT TRANSFORMERS BELOW 72.5 KV  
(Current and Potential Transformers designed for operation on system voltage below 72.5 KV)**

The price quoted/confirmed is based on the input cost of raw materials/components and labour cost as on the date of quotation and the same is deemed to be related to prices of raw materials and all India average consumer price index number for industrial workers as specified in the price variation clause given below. In case of any variation in these prices and index numbers, the price payable shall be subject to adjustment, up or down in accordance with the following formula:

$$P = \frac{P_0}{100} \left( 18 + 18 \frac{C}{C_0} + 20 \frac{ES}{ES_0} + 10 \frac{IS}{IS_0} + 12 \frac{ER}{ER_0} + 09 \frac{TB}{TB_0} + 13 \frac{W}{W_0} \right)$$

Wherein,

- P = Price payable as adjusted in accordance with the above formula.
- P<sub>0</sub> = Price quoted/confirmed.
- C<sub>0</sub> = Average LME settlement price of copper wire bars (refer notes)  
This price is as applicable for the month, two months prior to the date of tendering.
- ES<sub>0</sub> = C&F price of CRGO Electrical Steel Sheets (refer notes)  
This price is as applicable on the 1<sup>st</sup> working day of the month, one month prior to the date of tendering.
- IS<sub>0</sub> = Wholesale price index number for 'Iron & Steel (Base: 1993-94=100)' (refer notes)  
This index number is as applicable for the week ending 1<sup>st</sup> Saturday of the month, three months prior to the date of tendering.
- ER<sub>0</sub> = Price of Epoxy Resin (refer notes)  
This price is as applicable on the 1<sup>st</sup> working day of the month, one month prior to the date of tendering.
- TB<sub>0</sub> = Price of Transformer Oil Base Stock (refer notes)  
This price is as applicable on the 1<sup>st</sup> working day of the month, two months prior to the date of tendering.
- W<sub>0</sub> = All India average consumer price index number for industrial workers, as published by the Labour Bureau, Ministry of Labour, Govt. of India (Base 1982 = 100)  
This index number is as applicable on the first working day of the month, three months prior to the date of tendering.

For example, if date of tendering falls in October 2005, the applicable prices of Copper Wire Bars (C<sub>0</sub>) and Transformer Oil Base Stock (TB<sub>0</sub>) should be for the month August 2005, where as the applicable price of CRGO Electrical Steel Sheets (ES<sub>0</sub>) and Epoxy Resin (ER<sub>0</sub>) should be as on 1<sup>st</sup> September 2005 and Wholesale price index number for 'Iron & Steel' (IS<sub>0</sub>) should be for the week ending first Saturday of July 2005 and all India average consumer price index number (W<sub>0</sub>) should be for the month of July 2005.

Reply to:

IEEMA/PVC/INST.TR (BELOW 72.5 KV)/2005/01/03

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IEEMA/PVC/INST.TR (BELOW 72.5 KV)/2005

Effective from: 1<sup>st</sup> June 2005

The above prices and indices are as published by IEEMA vide circular reference number IEEMA(PVC)/CTPT/\_/\_ prevailing as on first working day of the month ..... i.e., one month prior to the date of tendering.

- C = Average LME settlement price of copper wire bars (refer notes)  
This price is as applicable for the month, two months prior to the date of delivery.
- ES = C&F price of CRGO Electrical Steel Sheets (refer note)  
This price is as applicable on the 1<sup>st</sup> working day for the month, one month prior to the date of delivery.
- IS = Wholesale price index number for 'Iron & Steel (Base: 1993-94=100)' (refer notes)  
This index number is as applicable for the week ending 1<sup>st</sup> Saturday of the month, three months prior to the date of delivery.
- ER = Price of Epoxy Resin (refer notes)  
This price is as applicable on the 1<sup>st</sup> working day of the month, one month prior to the date of delivery.
- TB = Price of Transformer Oil Base Stock (refer notes)  
This price is as applicable on the 1<sup>st</sup> working day of the month, two months prior to the date of delivery.
- W = All India average consumer price index number for industrial workers, as published by the Labour Bureau, Ministry of Labour, Govt. of India (Base 1982 = 100)  
This index number is as applicable on the first working day of the month, three months prior to the date of delivery.

For example, if date of delivery in terms of clause given below falls in December 2005, the applicable prices of Copper Wire Bars (C) and Transformer Oil Base Stock (TB) should be for the month October 2005; where as applicable prices of CRGO Electrical Steel Sheets (ES) and Epoxy Resin (ER) should be as on 1<sup>st</sup> November 2005 and Wholesale price index number for 'Iron & Steel' (IS) should be for the week ending first Saturday of September 2005 and all India average consumer price index number (W) should be for the month of September 2005.

The date of delivery is the date on which the instrument transformer is notified as being ready for inspection/despatch (in the absence of such notification, the date of manufacturer's despatch note is to be considered as the date of delivery) or the contracted delivery date (including any agreed extension thereto), whichever is earlier.

Notes: (a) All prices of raw materials are exclusive of modvatable excise/CV duty amount and exclusive of any other central, state or local taxes; octroi etc. Instrument transformers manufacturers import major raw materials like Copper, CRGO Electrical Steel Sheets and TOBS etc. The landed cost of these imported raw materials includes applicable custom duty but exclusive of modvatable CVD.

- (b) All prices are as on first working day of the month.

IEEMA/PVC/INST.TR (BELOW 72.5 KV)/2005/02/03

IEEMA/PVC/INST.TR (BELOW 72.5 KV)/2005

Effective from: 1<sup>st</sup> June 2005

(c) The details of prices are as under:

- 1) The LME price of Copper Wire Bars (in Rs./MT) is the LME average settlement price of Copper Wire Bars for one month prior to the month of the circular converted into Indian Rupees with applicable exchange rates prevailing as on 1<sup>st</sup> working day of the subsequent month. This price is the landed cost, inclusive of applicable customs duty only but exclusive of countervailing duty.
- 2) The price of CRGO Electrical Steel Sheets (in Rs./MT) is the average CIF price in US \$ per MT converted into Indian Rupees with applicable exchange rate prevailing as on 1<sup>st</sup> working day of the month, as quoted by primary producers. This price is the landed cost, inclusive of applicable customs duty only but exclusive of countervailing duty.
- 3) The wholesale price index number for 'Iron & Steel' is as published by the Office of Economic Advisor, Ministry of Industry, Govt. of India, New Delhi with base 1993-94=100. This wholesale price index number is being published weekly on provisional basis. However, the same gets finalized after eight weeks and is normally available after two months. Therefore, we are considering in our calculations this final index for the first Saturday of the months two months prior to the date of which the prices of other raw materials such as Al, IM are published for the corresponding month.
- 4) The price of Epoxy resin is price quoted by resin manufacturer for their grade CT 5900 or its nearest equivalent.
- 5) The price of TOBS is C&F price (in Rs./K.Ltr) for Group II grade 70 Base Oil as published in ICIS-LOR bulletin for the 1<sup>st</sup> week of the previous month. This price is normally published in US\$ per US Gallon, which is converted in Rs./K.Ltr with applicable exchange rate prevailing on 1<sup>st</sup> working day of the subsequent month. This price is the landed cost, inclusive of applicable customs duty only but exclusive of countervailing duty.

  
Authorized Signatory

IEEMA/PVC/INST.TR (BELOW 72.5 KV)/2005/03/03

**ANNEXURE- II****PRE-CONTRACT INTEGRITY PACT****1. GENERAL**

- 1.1 This pre-bid contract Agreement (hereinafter called the Integrity Pact) is made on.....day of the month .....20..., between the CSPTCL acting through Shri..... CE (S&P),CSPTCL (hereinafter called the “BUYER”, which expression shall mean and include, unless the context otherwise requires, his successors in the office and assigns) and the First Party, proposes to procure (name of the Stores/Equipment/Work/Service) and M/s. .... represented by Shri.....Chief Executive Officer (hereinafter called the “BIDDER/Seller”, which expression shall mean and include, unless the context otherwise requires, his successors on permitted assigns) and the Second Party, is willing to offer/has offered.
- 1.2 WHEREAS the BIDDER is a Private Company/Public Company/ Government undertaking/Partnership/Registered Export Agency, constituted in accordance with the relevant law in the matter and the BUYER is a power company an undertaking of Govt. of CG, performing its function on behalf of the Government of Chhattisgarh.

**2. OBJECTIVES**

- 2.1 NOW, THEREFORE, the BUYER and the BIDDER agree to enter into this pre-contract agreement, hereinafter referred to as Integrity Pact, to avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the Contract to be entered into with a view to:-
- 2.2 Enabling the BUYER to obtain the desired Stores/Equipment/Work/Service at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement, and
- 2.3 Enabling BIDDERS to abstain from bribing or indulging in any corrupt practices in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing any corrupt practices and the BUYER will commit to prevent corruption, in any form, by its official by following transparent procedures.

**3. COMMITMENTS OF THE BUYER**

The BUYER commits itself to the following:-

- 3.1 The BUYER undertakes that no official of the BUYER, connected directly or indirectly with the contract, will demand, take promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting of implementation process related to contract.
- 3.2 The BUYER will, during the pre-contract stage, treat BIDDERS alike, and will provide to all BIDDERS the same information and will not provide any such information to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to the other BIDDERS.
- 3.3 All the officials of the BUYER will report the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.

In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the BUYER with the full and verifiable facts and the same prima facie found to be correct by the BUYER, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the BUYER and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the BUYER the proceedings under the contract would not be stalled.

**4. COMMITMENTS OF BIDDERS**

The BIDDER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following:-

- 4.1. The BIDDER will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.
- 4.2. The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage, or inducement to any official of the BUYER or otherwise in procuring the Contract of forbearing to do or having done any act in relation to the obtaining or execution of the contract or any other contract with the CSPTCL for showing or forbearing to show favour or disfavour to any person in relation to the contract or any other contract with the CSPTCL.
- 4.3. The BIDDER further confirms and declares to the BUYER that the BIDDER in the original Manufacture/Integrator/Authorized government sponsored export entity of the stores and has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to the BUYER or any of its functionaries, whether officially or unofficially to the award of the contract to the BIDDER, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation.
- 4.4. The BIDDER, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payment he has made, is committed to or intends to make to officials of the BUYER or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.
- 4.5. The BIDDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.
- 4.6. The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
- 4.7. The BIDDER shall not use improperly, for purpose of competition or personal gain, or pass on to others, any information provided by the BUYER as part of the business relationship, regarding plans, technical proposal and business details, including information contained in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.
- 4.8. The BIDDER commits to refrain from giving any compliant directly or through any other manner without supporting it with full and verifiable facts.
- 4.9. The BIDDER shall not instigate or cause to instigate any third person to commit any of the acts mentioned above.

**5. PREVIOUS TRANSGRESSION**

- 5.1. The BIDDER declares that no previous transgression occurred in the last three years immediately before signing of this Integrity Pact with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could justify BIDDER's exclusion from the tender process.
- 5.2. If the BIDDER makes incorrect statement on this subject, BIDDER can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

**6. EARNEST MONEY (SECURITY DEPOSIT)**

- 6.1. Every BIDDER while submitting commercial bid, shall deposit an amount as specified in RFP as Earnest Money/Security Deposit, with the BUYER through any of the following instruments:

- (i) Bank Draft or Pay Order in favour of.....
  - (ii) A confirmed guarantee by an Indian Nationalised Bank, promising payment of the guarantee sum to the .....(BUYER).....on demand within three working days without any demur whatsoever and without seeking any reasons whatsoever. The demand for payment by the BUYER shall be treated as conclusive proof of payment.
  - (iii) Any other mode or through any other instrument (to be specified in the RFP).
- 6.2. The Security Deposit shall be valid up to complete conclusion of the contractual obligations to the complete satisfaction of both the BIDDER and BUYER, including warranty period, whichever is later.
- 6.3. In the case of successful BIDDER a clause would also be incorporated in the Article pertaining to Performance Bond in the Purchase Contract that the provisions of Sanctions for violation shall be applicable for forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.
- 6.4. No interest shall be payable by the BUYER to the BIDDER on Earnest Money/Security Deposit for the period of its currency.

## **7. SANCTIONS FOR VIOLATIONS**

- 7.1. Any breach of the aforesaid provisions by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle the BUYER to take all or any one of the following actions, wherever required:-
- (i) To immediately call off the pre contract negotiations without assigning any reason or giving any compensation to the BIDDER. However, the proceedings with the other BIDDER(s) would continue.
  - (ii) To forfeit fully or partially the Earnest Money Deposit (in pre-contract stage) and/or Security Deposit/Performance Bond (after the contract is signed), as decided by the BUYER and the BUYER shall not be required to assign any reason therefore.
  - (iii) To immediately cancel the contract, if already signed, without giving any compensation to the BIDDER.
  - (iv) To recover all sum already paid by the BUYER, and in case of the Indian BIDDER with interest thereon at 2% higher than the prevailing Prime Lending Rate while in case of a BIDDER from a country other than India with Interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to the BIDDER from the BUYER in connection with any other contract such outstanding payment could also be utilized to recover the aforesaid sum and interest.
  - (v) To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by the BUYER, along with interest.
  - (vi) To cancel all or any other contracts with the BIDDER and the BIDDER shall be liable to pay compensation for any loss or damage to the BUYER resulting from such cancellation/rescission and the BUYER shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.
  - (vii) To debar the BIDDER from participating in future bidding processes of the CSPTCL for a minimum period of five years, which may be further extended at the discretion of the BUYER.
  - (viii) To recover all sum paid in violation of this Pact by BIDDER(s) to any middlemen or agent or broken with a view to securing the contract.
  - (ix) In cases where irrevocable Letters of Credit have been received in respect of any contract signed by the BUYER with the BIDDER, the same shall not be opened.

- (x) If the BIDDER or any employee of the BIDDER or any person action on behalf of the BIDDER, either directly or indirectly, is closely related to any of the officers of the BUYER, or alternatively, if any close relative of an officer of the BUYER has financial interest/stake in the BIDDER's firm, the same shall be disclosed by the BIDDER at the time of filling of tender. Any failure to disclose the interest involved shall entitle the BUYER to rescind the contract without payment of any compensation to the BIDDER.

The term 'close relative' for this purpose would mean spouse whether residing with the Government servant or not, but not include a spouse separated from the Government servant by a decree or order of a competent court; son or daughter or step son or step daughter and wholly dependent upon Government servant, but does not include a child or step child who is no longer in any way dependent upon the Government servant or of whose custody the Government servant has been deprived of by or under any law; any other person related, whether by blood or marriage, to the Government servant or to the Government servant's wife or husband and wholly dependant upon Government servant.

- (xi) The BIDDER shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the BUYER, and if he does so, the BUYER shall be entitled forthwith to rescind the contract and all other contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the BUYER resulting from such rescission and the BUYER shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.

7.2. The decision of the BUYER to the effect that a breach of the provisions of this pact has been committed by the BIDDER shall be final and conclusive on the BIDDER. However, the BIDDER can approach the Monitor(s) appointed for the purpose of this Pact.

## **8. INDEPENDENT MONITORS**

- 8.1. The BUYER will appoint Independent Monitors (hereinafter referred to as Monitors) for this Pact.
- 8.2. The task of the Monitors shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.
- 8.3. The Monitors shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.
- 8.4. Both the parties accept that the Monitors have the right to access all the documents relating to the project/ procurement, including minutes of meetings. The Monitor shall be under contractual obligation to treat the information and documents of the BIDDER/ Subcontractor(s) with confidentiality.
- 8.5. As soon as the Monitor notices, or has reason to believe, a violation of this Pact, he will so inform the Authority designated by the BUYER.
- 8.6. The Monitor will submit a written report to the designated authority of BUYER/Secretary in the department/within 8 to 10 weeks from the date of reference or intimation to him by the BUYER /BIDDER and, should the occasion arise, submit proposal for correcting problematic situations.

## **9. FACILITATION OF INVESTIGATION**

In case of any allegation of violation of any provision of this fact or payment of commission, the BUYER or its agencies shall be entitled to examine all the documents including the books of Account of the BIDDER and the BIDDER shall provide necessary information of the relevant documents and shall extend all possible help for the purpose of such examination.

## **10. LAW AND PLACE OF JURISDICTION**

This pact is subject to Indian Law, the place of performance and jurisdiction shall be the seat of the BUYER.

**11. OTHER LEGAL ACTIONS**

The actions stipulated in this integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of any other law in force relating to any civil or criminal proceeding.

**12. VALIDITY**

12.1 The validity of this integrity Pact shall be from the date of its signing and extend up to 2 years or the complete execution of the contract to the satisfaction of both the BUYER and the BIDDER/Seller whichever is later. In case BIDDER is unsuccessful, this Integrity Pact shall expire after six months from the date of the signing of the contract.

12.2. If one or several provision of this pact turn out to be invalid; the reminder of this pact shall remain valid. In such case, the parties will strive to come to an agreement to their original intention.

13. The parties hereby sign this integrity Pact at .....on.....

**BUYER/BIDDER**

Name of Officer  
Destination Department/PSU

**CHIEF EXECUTIVE OFFICER**

Witness

Witness

1).....

2).....