



**CENTRAL ELECTRICITY SUPPLY UTILITY OF ORISSA**  
Regd. Office: IDCO Towers, 2nd Floor, Bhubaneswar- 751022

**TENDER SPECIFICATION NO :**

**CESU/ A&C/172 / 2010-11**

**SUPPLY OF 125 NOS ,3P4W,1A,0.2 CLASS,CT PT COMBINED METERING  
UNITS SUITABLE FOR 33 KV FEEDER METERING**

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**CENTRAL ELECTRICITY SUPPLY UTILITY OF ORISSA**  
**IDCO TOWERS ( II nd Floor) , Janapath ,Bhubaneswar-751022**  
Phone:2545681,2542895,2541727, Fax:0674-2543125 Web Site:www.cescoorissa.com.  
**TENDER NOTICE**

Tender Notice No. CESU.H.Qrs./ A&C / 3p4w,ABT,0.2C,1A HTTP Meters/376/30875 Dt-09.07.10

Sealed tenders are invited on two part basis in duplicate, super scribing the Tender Specification No. & date of opening as mentioned below from reputed manufacturers only for supply of the following materials.

Sl. No	Lot No & TS-No	Materials	Quantity in nos	EMD	Cost of tender paper (Rs )
1	171/10-11	3PH,4W,0.2 Class, 1A(125 Nos),ABT Compliant HTTP Meters, With RF Modem(Internal/external), Box & HHU (10nos) for data down loading.	125	30000/-	7000/- + 4% VAT
2	172/10-11	33kv CTPT Combined metering units, 3PH,4W,0.2 class,400/200/1A .	125	113000/-	8000/- + 4% VAT
Sale of Bid Documents			12.07.10, 11AM		
Last date of sale of Bid documents			(02.08.10,5PM for SI-1),(03.08.10,5PM for SI-2),		
Last Date of Submission of Tender			(03.08.10,1PM for SI-1),(04.08.10,1PM for SI-2),		
Date of Opening of Tender (Technical Bid)			(03.08.10,4PM for SI-1),(04.08.10,4PM for SI-2),		

For details of N.I.T. Please visit our website [www.cescoorissa.com](http://www.cescoorissa.com).

**Sr. General Manager**  
**( APDRP & CONTRACTS)**

Memo No.

Dt.

Copy forwarded to

PA to COO,CEO,CCO, CFO /Sr.G.M. (Tech ) /G.M.(AT&C)/DDO Hqrs / Cash Section for information & necessary action.

C.C. to

D.M. ( P.R. ) of this office for information. He is requested to arrange to publish this Tender Notice in one leading ORIYA and two leading English News Papers with all India Circulation at the earliest. It may also be published in India Times Tender Portal for wide circulation.

C.C. to

AGM (IT) of this office for information & necessary action. He is requested to post the tender notice, tender specification in our website early.

Notice Board for display

## INVITATION FOR BID

- 1.0 CESU now invites sealed bids from eligible Manufacturers only for Supply of CT PT Combined Metering Units for outdoor use of 0.2 accuracy class suitable for 33KV feeder metering and to be **delivered at central store of CESU at Bhubaneswar/ Choudwar.**
- 2.0 **(a) Requirement of Metering Units suitable for 33 kv HT metering as indicated below.**  
**(b) Delivery Schedule**

Name of Item	Specification	Unit	Quantity
33kv,3Ph4W, CT PT Combined metering units, 0.2 class accuracy for 33kv feeder metering.	400-200/1A	Nos	125

Description of Material	Unit	Total Qty.	To be delivered within 45 days from the date of PO	To be delivered within 45 to 90 days from the date of PO
			Consignment-I, at Choudwar Store	Consignment-II, at Bhubaneswar Store
33kv,3Ph4W, CT PT Combined metering units, 0.2 class accuracy for 33kv feeder metering.	Nos.	125	75	50

Interested eligible bidders may obtain further information from the office of Sr.General Manager, APDRP & CONTRACTS, CESU of Orissa, 2nd Floor, IDCO Tower, Janpath, Bhubaneswar - 751022.

- 3.0 A complete set of bidding documents (tender specification) may be purchased by any interested eligible bidder or their representative, on submission of a written application and upon payment of a non-refundable fee of Rs.8000.00 + 4% VAT either in cash or a demand draft payable to Central Electricity Supply Utility of Orissa on all working days between 11.00 hrs to 17.00 hrs in person OR can be down loaded from our website [www.cescoorissa.com](http://www.cescoorissa.com). However such intending bidders must submit the cost of the document in shape of DD at the time of bid submission.
- 4.0 Request for Bid Document through post will not be entertained, however Bid can be received through post but CESU will not be responsible for any postal delay.

The Bids will be opened in the presence of Bidders /Bidder's representatives as per guidelines vide Clause-6.

- 5.0 All bids must be accompanied by a bid security of Rs.1,13,000/- .

The bid security may be submitted: -

In shape of D.D. / Pay Order from any Nationalised Bank of India only in favour of CESU of Orissa, payable at Bhubaneswar.

Bids without E.M. Deposit will be rejected outright. No adjustment of any previous deposit will be entertained. The E.M. Deposit shall be forfeited in case of non-execution of order.

## 6.0 General:

- (I) Earnest Money of Rs 1,13,000/- in shape of DD/Pay order form any Nationalised Bank in favour of CESU of Orissa, payable at Bhubaneswar.
- (II) Cost of Bidding Document = Rs 8,000/- + 4% VAT
- (III) The tender papers (Commercial, Technical & Price bids) shall be submitted in duplicate in a envelope, sealed separately showing techno commercial in one envelope & price bid in one envelope.
- (IV) Date of beginning of sale of Bid Document = Dt-12.07.10, 11AM
- (V) Last date and time of sale of Bidding Documents = Dt-03.08.10 up to 17.00 Hrs.
- (VI) Last date and time of receipt of Bids = Dt.04.08.10 by 13.00 Hrs  
Date and time of opening of bid(Tech. / Commercial only) =  
in Conference Hall, CESU Headqrs, Bhubaneswar =Dt-04.08.10 at 16.00Hrs
- (VII) Date and time of opening of Financial bid will be after due evaluation of commercial / technical bid, the bidders who qualify in the same would be intimated in due course regarding the date and time of opening of financial bids .
- (VIII) In the event of any specified date for the sale, submission or opening of bids being declared a holiday for purchaser, the bids will be sold/received/opened up at the appointed time on the next working day.

## 7.0 Minimum Qualifying requirements for Bidders:

### **Financial :-**

- (A) Bidder shall be financially sound and must have annual turn over of Rs.2 ( Two) crores during any one year of the last three years of business performance of activity.

### **Commercial :-**

- (B) Bidder Should be manufacturer only.
- (C) The bidder must not be anticipating any ownership change during the period from the bid submission to two and half years after commercial operation defined as successful completion of commissioning and acceptance.
- (D) The Bidders shall be required to keep their offers valid up to 180 days from the date of opening of bids.
- (E) The Bidder shall meet the minimum qualification criteria mentioned in the bid document and shall furnish documentary evidence in support of the qualifying requirement.

### **Technical :-**

- (F) Bidder shall have adequate provision of design, manufacture and testing procedure including quality control of the metering units similar to the tender specification or higher class of accuracy, higher voltage & high current.

- G) Similar nos of metering units ( both current rating & accuracy class)of the bidder should be successfully in operation for at least three years.
- (H) The Bidder shall furnish Type Test Reports. The type test must have been carried out in an independent National laboratory as per the relevant IS not earlier than three years from the date of opening of bid. The Bids received without type test reports will be treated as Non-responsive.
- (I) Details of supply made of similar items in the past three years to various utilities with documentary evidence and user's certificate must be enclosed.
- 8.0 Notwithstanding anything stated above, CESU reserves the right to review the bidder's capability to execute the contract, before award of contracts.
- 9.0 CESU reserves the right to cancel /withdraw the invitation for bids without assigning any reasons and shall bear no liability whatsoever consequent upon such a decision.
- 10.0 Telex, telegraphic or in-complete offers shall be rejected outright.
- 11.0 The correspondence with regard to the above shall be made at the following address:

Sr.General Manager (APDRP & CONTRACTS)  
Central Electricity Supply Utility of Orissa.  
2<sup>nd</sup> Floor, IDCO Tower, Janpath,  
Bhubaneswar – 751022  
Tel: 0674 – 2545681,2542895  
Fax: 0674-2543125  
E-mail: apdrp@cescoorissa.com

## **INSTRUCTIONS TO BIDDERS**

### **1.0 SCOPE:**

This specification covers the design, manufacturing, testing, supply, delivery of 3P4W,33kv CT PT, combined, 0.2 class metering units for out door use to be installation in 33kv feeders under Central Electricity Supply Utility of Orissa, for HT Metering.

### **2.0 QUALITY STANDARDS:**

The materials offered should have been successfully type tested and the design should have been in satisfactory operation for a period of not less than three years from the date of supply. Compliance shall be made by submitting with the bid (i) Authenticated copies of the type test reports from National Testing Laboratory, Govt. of India and (ii) Performance certificates from the users.

The Metering Units should conform in all respects to highest standards of engineering, design, workmanship, this specification and the latest revisions of relevant Indian/International standards, at the time of offer and the Purchaser should have the power to reject any work or material, which, in his judgment is not in full conformity to the standards specification.

### **3.0 COST OF BIDDING:**

The bidder should bear all costs associated with the preparation and submission of the bid and the Central Electricity Supply Utility of Orissa hereinafter referred to as the Purchaser will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

### **4.0 CONTENT OF BIDDING DOCUMENTS:**

The goods required, bidding procedures and contract terms are prescribed in the bidding documents .In addition to the invitation for bids, the Bidding Documents include:

- a. General Conditions of Contract.
- b. Schedule of requirements.
- c. Technical specifications.
- d. Price Schedules & Schedule of Bids.
- e. Performance Security Form.
- f. Type test Certificates .
- g. Non-compliance schedule.
- h. Delivery schedule etc.

The bidder is expected to examine all instructions, forms, terms and specification in the bidding documents. Failure to furnish all information required by the bidding documents at the time of submission of a bid may result in the rejection of his bid.

### **5.0 SUBMITTAL OF DOCUMENTS**

- a. EMD Money in shape of DD/Pay Order.
- b. Technical bid in sealed cover.
- c. Price bid in sealed cover as per Annex – E.
- d. Abstract of GCTC as per Annex – D.
- e. Scheduled of bids as per Annex – C.
- f. Non Compliance schedule as per Annex – F.
- g. Type test report as per Annex – G.
- h. Audited annual accounts.
- i. Guaranteed Technical Particulars as per Annex – A,B.
- j. Document required for minimum qualifying requirement.
- k. Cost of the tender paper if downloaded.

## **6.0 AMENDMENT TO BIDDING DOCUMENTS:**

- 6.1 At any time prior to the deadline of submission of bids, the Purchaser may for any reason whether at his own initiative or in response to a clarification requested by a prospective Bidder modify the Bidding documents by amendment.
- 6.2 The amendment will be notified in writing or by fax or cable to all prospective Bidders who have received the Bidding Documents and should be binding on them.
- 6.3 In order to allow prospective Bidders reasonable time within which to take the amendments into account in preparing their bids, the Purchaser may, at his discretion, extend the deadline for the submission of bids.

## **7.0 MODE OF BIDDING:**

The firms will quote their **firm price** as per Price Schedule on two-part Bidding system (for techno / commercial and financial) separately.

## **8.0 DOCUMENTS COMPRISING THE BID:**

The bid prepared by the bidder should comprise of the following components:  
The first part is complete technical & commercial bid in duplicate with required Earnest Money furnished and Schedule of Bids completed in all respect, sealed properly. The second part is Price Schedules must be submitted separately in duplicate both original and duplicate must be kept in separate envelope along with the techno commercial bid. The envelop must be supercribed with tender specification , number and date of opening with the details of EM Deposit & tender cost if downloaded.

## **9.0 LATE BIDS:**

Any bid received by the Purchaser after the deadline for submission of bids prescribed by the Purchaser, **will be rejected and/or returned unopened by the Purchaser.**

## **10.0 PRELIMINARY EXAMINATION:**

- 10.1 The Purchaser will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required Bid bond/EMD have been furnished, whether the documents have been properly signed, and whether the bids are generally in order.
- 10.2 Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price should prevail and the total price should be corrected. If the Bidder does not accept the correction of the errors, his bid will be rejected. If there is a discrepancy between words and figures, the amount in words should prevail.
- 10.3 Prior to the detailed evaluation, the purchaser will determine the substantial responsiveness of each bid in line with the Bidding Documents. For purpose of these Clauses, a substantially responsive bid is one, which conforms to all the terms and conditions of the Bidding Documents without material deviations. The Purchaser's determination of a bid's responsiveness will be based on the contents of the bid itself without recourse to extrinsic evidence.
- 10.4 A bid determined as not substantially responsive will be rejected by the Purchaser and may not subsequently be made responsive by the Bidder by correction of the non-conformities.

- 10.5 The purchaser may waive any minor informality or non-conformity or irregularity in a bid, which does not constitute a material deviation, provided such waiver, does not prejudice or affect the relative ranking of any Bidder.

**11.0 CONTACTING THE PURCHASER:**

No Bidder should contact the Purchaser on any matter relating to its bid, from the time of the bid opening to the time the contract is awarded unless requested by the purchaser for any clarification, if any.

Any effort by a Bidder to influence the Purchaser in the Purchaser's Bid evaluation, bid comparison or contract award decision may result in the rejection of the Bidder's bid.

**12.0 PURCHASER'S RIGHT TO VARY QUANTITIES AT TIME OF AWARD:**

The Purchaser reserves the right at the time of award of contract to increase or decrease by 20 % of the quantity of goods and services specified in the Schedule of Requirement without any change in price or other terms and conditions.

**13.0 PURCHASER'S RIGHT TO ACCEPT OR REJECT:**

The Purchaser reserves the right to accept or reject any Bid, and to annul the Bidding process and reject all Bids at any time prior to award of contract, without thereby incurring liability to affected Bidders or any obligation to inform the affected Bidder on the grounds for the Purchaser's action.

**14.0 CONDITIONS FOR DESIGN, TESTING & COMMISSIONING:**

- 14.1 The Supplier's Scope of the Services is to design, manufacture, shop testing and delivery at CESU Central Store the 33kv CT PT combined metering units suitable for out door use HT Metering.

- 14.2 The supplier should provide preservation and storage manuals (if any) inter-alia specifying requirements of preservation and storage of supplied equipment and materials at site.

**15. NOTIFICATION OF AWARD:**

- 15.1 Prior to expiry of the bid validity, the Purchaser will notify the successful Bidder in writing by registered letter or by cable or telex or Fax, to be confirmed in writing by registered letter, that its bid has been accepted.

- 15.2 Upon the successful Bidder's furnishing of performance security, the purchaser will promptly notify each unsuccessful Bidder and will discharge its Earnest Money.

**16.0 Award Criteria:**

The Purchaser will award the contract to the successful Bidder / Bidders whose bid has / have been determined to be substantially responsive.

Negotiation if necessary would be held limiting to L4 only and specified quantities will be ordered on different firms to meet the requirements of the CESU.

Where negotiations are held, the following pattern of distribution of quantities will be adopted when orders are placed with more than one firm subject to their manufacturing capacities.

The following pattern of distribution of quantities will be adopted while placing orders and at the same price.

- I. When the sources of supply are two Percentage distribution between L1 & L2
    - a. When there are two identical L1 offers 50 : 50
    - b. When negotiation with L1 and L2 70 : 30
  - II. In case of three sources 50 : 30 : 20
  - III. In case of four sources 50 : 25 : 15 : 10
- However it is not binding on CESU to accept the lowest or any other Bid. It reserves the right to place orders on different Bidders.

**17. EVALUATION OF BID**

The bid Price of the technically & commercially qualified bidder shall be evaluated taking all metering units as a lot. The firms have to quote for full quantity. Bid will be cancelled if not offered for full quantity.

**18.0 EXTENSION OF ORDER:-**

The CESU reserves the right to place an extension order for any additional quantity to the extent of 20% quantity of the original order on the same rates terms and conditions within six months from the date of order after conforming the supply of the materials from the party received during the delivery period.

**XXXXXXXXXXXXXXXX**

## GENERAL CONDITIONS OF CONTRACT

- 1.0 Sealed tenders in duplicate on prescribed forms (under two part bidding system) are invited from reputed manufactures of 3P4W,33kv CT PT combined Metering Units for out door use,0.2 class or higher having adequate manufacturing facilities and capability of testing, for supply, delivery and suitable for HT Metering as per schedule detailed herein after and as per this specification.
- 2.0 This contract shall include but not be limited to the following work:  
Manufacturing, Testing, Supply, and Delivery of 3P4W, 33kv CT PT combined Metering Units for out door use,0.2 class suitable for of 33kv feeders Metering and as required under the schedule.  
It is not the intent to specify completely herein all the details of the design and construction of material. The material shall, however, conform in all respects to high standards of engineering, design and workmanship and shall be capable of performing for continuous operation in a manner acceptable to the purchaser, who shall interpret the meanings of drawings and specification and shall have the power to reject any work or material which in his judgment is not in accordance therewith.
- 3.0 Sealed tender in **duplicate** should be submitted in a sealed envelope for (1) technical / commercial & (2) financial separately both in separate closed packet. The name of the firm, tender Notice No., Due date & details of the Earnest Money should be clearly indicated on the cover of the envelope and also indicating "Original or duplicate Copy" to the address Sr.General Manager, APDRP & Contracts Cell, Central Electricity Supply Utility of Orissa, 2<sup>nd</sup> Floor, IDCO Towers, Janpath, Bhubaneswar – 751 022. All the packets shall be kept in a big envelope.
- 4.0 The tender will be opened in presence of the tenderers or their authorized representatives as may desire to be present on the due date and time. Tenders received after the due date and time will be rejected.
- 5.0 Deposit of Earnest Money
- a) Tender must be accompanied with an Earnest Money of **Rs.1,13,000/-** (Rupees One Lakh Thirteen Thousand) only, failing which the tender will be rejected.
  - b) The Earnest Money & tender cost should be deposited as per **the Clause No.5.0 of IFB(Invitation for Bid).**
  - c) Cheque is not acceptable towards deposit of Earnest Money. Tender accompanied with cheque on account of Earnest Money will be considered receipt without earnest money and will be rejected.
  - d) No earnest money will be accepted after opening of the tender.
  - e) Details of the earnest money should be indicated on the cover of the envelope; otherwise the tender will not be opened and returned to the party.
  - f) **The earnest money will be forfeited in case of non-execution of orders.**
- 6.0 The authorities reserves the right to cancel the order contract in part or full for default or delayed supply or supply of sub-standard materials without assigning any reason. The authority reserves the right of verifying the tenderer's credentials, qualifying conditions, manufacturing capacities, past performance, testing facilities etc. to satisfy the tenderer's capacity in participating in the bid.
- 7.0 The authorities reserve the right to reject part or whole tender without assigning any reason.

## 8.0 **Price:**

Prices in figure and the words must be quoted in CESU's prescribed proforma of price schedule on the firm price basis only, indicating therein clearly and separately Ex-factory price, excise duty with cess, CST,VAT packing and forwarding, freight & entry tax up to F.O.R.. destination in Orissa, under the jurisdiction of CESU, as may be required. The responsibility of safe delivery will rest with the supplier. The price bid shall be quoted strictly as per the price bid schedule & quantity format (Annex-E) attached with the tender.

## 9.0 **Insurance:**

The Insurance will have to be underwritten with any subsidiary of GIC of India except National Insurance Company. As such Insurance premium should be included in the quoted price.

## 10.0 **Tests:**

Tests will have to be conducted on the materials in case an order is placed, according to relevant standard and tests certificates will have to be furnished. The tests that will be conducted on the materials as per relevant IS/ Tender specification. Each unit of the materials will be subject to the tests prescribed in the relevant standard (latest edition) before supply is affected. Untested materials will not be accepted. The certificates of type tests should also be submitted with the tender. The tenderer has to submit the Quality Assurance Plan (QAP) to be followed for the manufacturing and testing of 3P4W,0.2class,33kv Metering Units suitable for metering of HT consumers.

## 11.0 **Guaranteed particulars:**

The performance particulars as required in the specification should be sent along with the tender. Other details not specified here but otherwise necessary may also be given.

## 12.0 **Deviation from specification:**

Any Deviation from the specified specifications or improvement over the specification should be stated in the offer in the enclosed Non-Compliance Schedule format. Any specific provision on the metering Unit, which improves its quality, should be indicated separately.

## 13.0 **Income-Tax & Sales Tax:**

An attested copy of Income Tax clearance certificates and sales tax clearance certificates should accompany the tender. Central Sales Tax Registration no. of the tenderer should also be stated.

## 14.0 **Technical particulars & drawing**

- a) The detailed dimensioned drawing mentioning length, breadth, height of the tank, minimum quantity of oil, minimum clearance will have to be furnished with the tender.
- b) Incomplete tenders which do not contain full details, technical particulars, dimensions, literatures, test certificates, price of all items, accessories, hardware where applicable, delivery period QAP, delivery schedule-Bar Chart etc. will be rejected.

## 15.0 **Progress Report:**

The supplier will have to submit fortnightly progress report in line with accepted delivery schedule to the Sr.General Manager (APDRP&CONTRACTS). Central Electricity Supply Utility of Orissa, or to the designated officer, every month following the month in which the order is placed, on the progress made by the supplier towards proper execution of this order.

## **16.0 Performance Bank Guarantee**

- 16.1 The successful bidder will have to submit Performance Bank Guarantee amounting to 10% of the contract value within 30 days from the date of issue of award of contract. This **performance Guarantee should remain valid for a period of 12 months over & above the guarantee obligation of 24 months from the date of Purchase Order.** This performance Bank Guarantee should be drawn from a Nationalised Bank in favour of CESU payable at Bhubaneswar in the prescribed format. In case of failure to furnish performance BG, as per our format, an amount equivalent to 10% (ten percent) of the total contract price shall be deducted from your bill & same shall be released after submission & approval of composite Bank Guarantee or expiry of Guarantee period which ever is earlier.
- 16.2 No interest will be allowed for the Performance Bank guarantee submitted by the bidder.

## **17.0 Terms of payment.**

- 17.1 100% payment will be released for such consignment along with taxes within thirty days after receipt/verification of materials in good condition at the store and due inspection/testing thereof, subject to approval of guarantee certificate, test certificate & submission of Composite Performance Bank Guarantee (amounting to 10% of the contract value) at this office and after due certification and replacement of defective materials if any. The total price of defective materials (if any) not replaced shall be deducted from the final payment.
- 17.2 When the supplier does not at any time, fulfill his obligations in replacing / rectifying etc. of the damaged / defective materials in part or whole promptly to the satisfaction of the CESU, the CESU reserves the right not to accept the bills against subsequent dispatches made by the supplier and only the supplier will be responsible for any demurrages, wharfages or damage occurring to the consignments so dispatched.

## **18.0 Guarantee:**

- In the event of any defect in the equipment/materials arising out of faulty design inferior quality or raw materials and bad workmanship within a period of 24 months from the date of last dispatch of any integral part of equipment/materials, the manufacturer shall guarantee to replace or repair to the satisfaction of the purchaser the defective parts at site free of any cost to the purchaser. However if the manufacturer fails to do so within in a reasonable time, the purchaser reserves the right to effect repair or replacement and recover charges for repair or replacement from the manufacturer .Seller shall give a composite bank guarantee in favour of the purchaser for 10% of the order value which is valid for 12 months over & above the guarantee obligation.
- 18.1 The Supplier warrants that the Materials/equipment supplied under the Contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The supplier further warrants that all Materials/equipment supplied under this Contract will have no defect, arising from a design and/or materials as required by the Purchaser's specifications or from any act of omission of the Supplier, that may develop under normal use of the supplied Materials/equipment.
- 18.2 All the material will be of the best class and will be capable of satisfactory operation in the tropics under service conditions without distortion or deterioration. No welding filling or plugging of defective parts will be permitted, unless otherwise specified, they will conform to the requirements of the appropriate Indian Standard.
- 18.3 The entire designs and construction will be capable of withstanding the severest stresses likely to occur in actual service and of resisting rough handling during transport.

- 18.4 The warranty period will be 24 months from the date of last delivery of the Materials / equipment. The Supplier will, in addition, comply with the performance guarantees specified under the contract. If, for reasons attributable to the Supplier, these guarantees are not attained in whole or in part, the supplier will at its discretion either, Make such changes, modifications, and/or additions to the Materials / equipment or any part thereof as may be necessary in order to attain the contractual guarantees specified in the contract at its own cost and expense and to carry out further performance tests as per the relevant standards.
- 18.5 The Purchaser will promptly notify the supplier in writing of any claims arising under this warranty.
- 18.6 "Upon receipt of such notice, the Supplier will within 30 days repair or replace the defective Materials / equipment or parts thereof, free of cost at the ultimate destination. The supplier will take over the replaced parts/Materials / equipment at the time of their replacement. No claim whatsoever will lie on the Purchaser for the replaced parts/Materials / equipment thereafter". In the event of any correction of defects or replacement of defective material during the warranty period, the warranty for the corrected/replaced material will be extended to a further period of 12 months.
- 18.7 If the Supplier, having been notified, fails to remedy the defect(s) within the above period, the Purchaser may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense duly deducting the expenditure from subsequent bills / bank guarantee and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.
- 19.0 **Inspection**
- 19.1 The supplier will keep the Purchaser informed in advance of the time of the starting and the progress of manufacture of equipment in its various stages so that arrangement could be made for inspection. The accredited representative of the CESU will have access to the supplier's or his subcontractor's work at any time during working hours for the purpose of inspecting the materials during manufacturing of the materials / equipment and testing and may select test samples from the materials going into plant and equipment. The supplier will provide the facilities for testing such samples at any time including access to drawings and production data at no charge to Purchaser. As soon as the materials are ready the supplier will duly send intimation to CESU by Regd. Post and carry out the tests in the presence of representative of the CESU. If CESU feels necessary may select one sample from the lot at factory to send for testing at CPRI/NTL or any other standard laboratory. In this case all inspection & testing charges in this connection will be borne by the supplier.
- 19.2 The CESU may at its option get the materials inspected by the third party if it feels necessary and all inspection charges in this connection will be borne by the supplier.
- 19.3 The dispatches will be affected only if the test results comply with the specification. The dispatches will be made only after the inspection by the CESU Officer is completed to the CESU satisfaction or such inspection is waived by the competent authority.
- 19.4 The acceptance of any quantity of materials will in no way relieve the supplier of its responsibility for meeting all the requirements of this specification and will not prevent subsequent rejection if such materials are later found to be defective or deviation from specification/IS.
- 19.5 The supplier will give 15 days advance intimation to enable the Purchaser depute his representative for witnessing the acceptance and routine tests.
- 19.6 Should any inspected or tested materials / equipment fail to conform to the specification, the Purchaser may reject the materials and supplier will either replace the rejected materials or make alterations necessary to meet specifications requirements free of costs to the Purchaser.

19.7 After deliver of materials at CESU Store the materials may be verified/retested in full or taking random samples before acceptance. In case of any deviation to the specification, GTP,IS found during the tests the lot will be rejected or will be replaced by supplier.

**20.0 Dispatch:**

20.1 The manufacture after receiving dispatch clearance from the respective inspection Authority/Purchaser should deliver the equipment/materials suitably packed to CESU designated Stores. The materials are to be suitable packed and fully insured against all risks and to be delivered as per dispatch instruction to be communicated in due course. Immediately after dispatch of materials/equipment., the Bidder should notify the purchaser and consignee officer about value of consignment, weight and dimension of consignment by fax and post copy by courier/registered Post, the relevant documents on the strength of which the consignment can be taken delivery at destination.

20.2 Materials/ equipment as per dispatch clearance should have to be dispatched within the stipulated period of the order and inspection of further lots against the said order will be arranged after receipt of confirmation regarding physical delivery to our stores by the inspection authority.

20.3 In case the inspected materials/ equipment are not delivered within one month after the stipulated physical delivery period, without any valid reasons, the dispatch clearance already issued against the said lot should be considered to be withdrawn and material/ equipment should have to re-offered for inspection and testing and re-testing charges will be livable such cases also.

**21.0 Packing:**

The materials/ equipment should have to be packed suitably. If the materials/ equipments are found to be acceptable after inspection and testing, the same should have to be suitable sealed by our inspecting officers. Due care should have to be ensured during transportation to keep the packing and seal intact for acceptance by consignee stores. All necessary assistance in this regard should be extended by the party to CESU's inspecting team in free of cost.

The materials/ equipment delivered to the consignee stores will be subjected to re-inspection and testing and if any discrepancy/ dispute in quality arises, the party should have to replace the entire lot at their cost and CESU reserves the right to take any penal action what-so-ever without any further reference to the Bidder.

**22.0 Delivery:**

The entire quantity mentioned at Clause 2.0 (IFB shall be delivered within 90 days from the issue of order (as per delivery schedule enclosed)

The materials should reach the destination store within the stipulated period from the date of issue of dispatch clearance otherwise L.D.will be levied as per L.D. Clause.

**23.0 Liquidated Damage for Delay in Delivery.**

The time of delivery (offer for inspection) of the equipment/ materials are to be treated as essence of the contract and CESU reserves the right to repudiate the contract if the equipment/ materials are not offered for inspection / delivered / physically dispatched within stipulated period from the date of issue of dispatch clearance. Purchaser may at his discretion waive this conditions as to time on imposition of liquidated damage@ ½ % of the value of the material of the particular lot offered/ delivered beyond the schedule delivery period for each week of delay or part thereof up to a maximum limit of 5 % of the value of materials of that particular lot and accept the goods beyond the stipulated delivery period. Any liquidated damage, if involved, will be recovered from the outstanding bills/ Bank Guarantee.

**24.0 Cancellation of Purchase Order.**

If all the materials are not delivered ten weeks beyond the scheduled delivery period, the purchase order shall be automatically cancelled.

**25.0 Prices:**

The price schedule and the schedule of bids are indicated in **Price schedule Format E**, which should be properly filled up and submitted separately in a sealed cover specifying as finance bid failing which the tender is liable to be cancelled. The price quoted should be firm.

**26.0 Quantity:**

The quantities mentioned in tender schedules are provisional. The purchaser reserves the right to vary the quantities by maximum  $\pm 20\%$

**27.0 Acceptance of Order**

The purchaser will communicate acceptance of tender to the successful Bidder or his authorized agent by a formal order. The successful tenderer will communicate the acceptance of the order, so as to reach the purchaser within 15(fifteen) days from the date of issue of the said order. If the acceptance of order is not received within the above period, then the earnest money against the tender is liable to be forfeited.

**28.0 Force Majeure:**

The Supplier will not be liable for forfeiture of its performance security, penalty for late delivery, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

28.1 For purposes of this clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not restricted to, wars or revolutions fires, floods, epidemics, quarantine restrictions, and freight embargoes.

28.2 If a Force Majeure situation arises, the supplier will promptly notify the Purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier will continue to perform its obligations under the Contract as far as is reasonably practice, and will seek all reasonable alternative means for performance not prevented by the Force Majeure event.

No price variance will be allowed during the period of force measure.

**29.0 Risk Purchase**

Incase of supplier who has not adhered to the delivery schedule, the CESU reserves the right to purchase the balance quantity from the open market/floating another tender and recover the extra expenditure thus incurred from the supplier.

**30.0 Termination for Default**

30.1 The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate this Contract in whole or in part:

i. If the Supplier fails to deliver any or all of the Materials / equipment within the period(s) specified in the Contract, or within any extension thereof granted by the Purchaser.

ii. If the Supplier fails to perform any other obligation(s) under the Contract.

iii. If the Supplier, in the judgment of the Purchaser has engaged incorrupt or fraudulent practices in competing for or in executing the Contract.

**30.2** In the event the Purchaser terminates the Contract in whole or in part, the Purchaser may procure, upon such terms and in such manner, as it deems appropriate, Materials / equipment or services similar to those undelivered, and the Supplier will be liable to the Purchaser for any excess costs for such similar Materials / equipment or Services. However, the Supplier will continue performance of the Contract to the extent not terminated.

**31.0 Termination for Insolvency**

The Purchaser may at any time terminate the Contract by giving written notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the supplier, provided that such termination will not prejudice or not affect any right of action or remedy, which has accrued or will accrue thereafter to the Purchaser.

**32.0 Termination for Convenience**

**32.1** The Purchaser, by written notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination will specify the termination is for the Purchaser's convenience, the extent to which performance of the supplier under the Contract is terminated, and date upon which termination becomes effective.

**32.2** However the Materials / equipment that are complete and ready for shipment within thirty (30) days after the supplier's receipt of notice of termination will be accepted by the Purchaser at the Contract terms and prices.

**33.0 Arbitration:**

All the disputes arising in connection with the present contract shall be settled amicable by mutual consultation, failing which shall be finally settled as per the rules of Arbitration & Conciliation Act, 1996 at the discretion of Purchaser. The Jurisdiction of arbitration shall be at Bhubaneswar, Orissa, India Only.

**34.0 Applicable Law**

The applicable law shall be that of Union Govt. of India.

**35.0 Governing Language**

The Governing Language shall be only English.

**36.0 Amendment to purchase order:**

No variation in our modification of the Terms of purchase order shall be made except by written amendment signed by both the parties (Purchaser and supplier).

**XXXXXXXXXXXXXXXXXXXXXXX**

## **DETAIL QUALIFICATION REQUIREMENTS**

### **1.0 Financial :-**

The Bidder should be financially sound and must have an annual turn over of Rs.2 crores or more in any one year during the last three year period.

### **2.0 Technical :-**

**2.1** The Bidder should have supplied similar or higher ratings( both in current capacity or in accuracy class) of minimum equal Qty. of items tendered.

**2.2** The Bidder should have a full fledged testing laboratory and have to furnish the details of the facilities possessed by them for satisfactorily meeting the test requirement demanded under Relevant IS and IEC specification. The Quality Assurance Plan (QAP) followed for manufacturing the tendered items should be submitted with the tender.

**2.3** The Bidder should furnish photo copies of purchase orders of supplies made and satisfactory performance reports from the competent authorities in the last two years.

**2.4** The Bidder shall furnish Type Test Reports. The type test must have been carried out in an independent National laboratory as per the relevant IS not earlier than three years from the date of opening of bid. The Bids received without type test reports will be treated as Non-responsive.

### **3.0 Commercial :-**

**3.1** Bidder should be a manufacture only who have designed, manufactured, tested and supplied such equipment.

**3.2** Bidders who are subsidiaries and have recently established production line in India for the product for which bids are invited, can also be considered legible, provided their parent Company (principals) meets with the criteria mentioned above at item (a) in full and agree to furnish either jointly with the bidder (Subsidiary) or separately, a legally enforceable undertaking to guarantee quality, timely supply, performance and warranty obligations as specified in the Bid Specifications.

**3.3** The Principals must furnish authorization in the prescribed form assuring full guarantee and warranty obligations as per the NIT to their Subsidiaries.

**3.4** The Bidder must have supplied and provided after sales service for the quantity specified against each schedule in any one year (i.e. a continuous period of 12 months) during the last 3 years which must be in satisfactory operation for at least for the last 2 year on the date of bid opening.

**3.5** The Bidder must have a modern production plant with adequate capacity to manufacture the tendered quantity of Mitering Units within the stipulated delivery period, besides meeting his current and future commitments. The Bidders are to furnish the details of supplies effected during last two year with quantity, order value, authority and completion time. Satisfactory completion certificate from the purchaser to be attached.

**3.6** The Bidder should furnish a brief write-up, backed with adequate data, explaining his available capacity and experience (both technical and commercial) for the manufacture and supply of the required equipment within the specified time of completion after meeting all his current commitment.

- 3.7 Reports on financial status of the Bidder such as turnover, profit and loss statement, balance sheets and auditors' report for the past three years, bankers certificate etc. Certificate from Chartered Accountant on capacity/ supply in any one year i.e. a continuous period of 12 months (as a proof of meeting the requirements as above).
- 3.8 Even though the Bidder meets the above qualifying criteria, he is subject to be disqualified if he has (i) made misleading or false representation in the statements and attachments submitted in proof of qualification requirements and/or (ii) record of poor performance such as not properly completing the contract, inordinate delays in supply completion, litigation history or financial failure etc.
- 3.9 Notwithstanding anything stated above, the purchaser reserves the right to assess bidder's capability and capacity to perform the purchase order should circumstances warrant such assessment in the overall interest of the Company (CESU).
- 4.0 CESU at its discretion may relax the minimum qualifying criteria for bidders, in consideration of certain items like outstanding performance of their metering units supplied by to various utilities in past , timely delivery, trouble free service, after sales service and proven integrity of bidders etc.
- 5.0 All bids submitted shall also include the following information.

Copies of original documents defining the constitution or legal status, place of registration and principal place of business of the Company.

**XXXXXXXXXXXXXXXXXXXXXX**

## SCHEDULE OF MATERIAL

### 33KV CTPT SETS 3PH 4W (0.2 class of accuracy)

Sl. No.	Description	CT ratio.	Qty.in nos	Destination
1.	<p>33kV 3PH 4W,0.2 class, outdoor, pole mounting type oil immersed metering transformer equipment (a) and (b) mentioned below with current ratio of 400-200/1A and S.C Current of 18 KA for 1 seconds.</p> <p>a) One 3 Phase 50 cycles voltage star star connected transformer of the following features.</p> <p>(i) Voltage ratio phase <math>\frac{33kV}{\sqrt{3}} / \frac{110V}{\sqrt{3}}</math></p> <p>(ii) VA Capacity per phase : <b>50 VA</b></p> <p>(iii) Class of accuracy 0.2 as per ISS:3156 Part.II of 1992 (latest version)</p> <p>iv) Insulation :36kV</p> <p>v) Inter layer insulation-polyester film or equivalent.</p> <p>b) Three nos current transformers of 33kV voltage each with the following features.</p> <p>(i) VA capacity : 15 VA.</p> <p>(ii) Class of accuracy 0.2 as per ISS:2705 Part.II 1992 (latest version)</p>	400-200/1A	125	SDO Store Sub Division BBSR/Choudwar.
	<b>Total :</b>		<b>125</b>	<b>--do--</b>

All the above equipment shall be contained in a sheet steel tank(Galvanised) fitted with bushings, lifting lugs, oil gauge, bolting down lugs, earthing terminals and secondary terminal boxes, including mounting arrangements.

## TECHNICAL SPECIFICATION FOR 3P4W, 33KV CTPT SETS OF 0.2 CLASS

### 1. SCOPE :

This specification covers design, engineering, manufacture, **assembly, stage testing, inspection**, testing before dispatch, supply and delivery of 3P4W,33kV CT PT Combined Metering unit Sets of class of accuracy **0.2** as per the particulars given in the schedule attached.

### 2. STANDARD :

Except where modified by this specification the component parts of the equipment shall comply with the following ISS available (the latest versions).

Current Transformers	:	IS 2705/1992
Potential Transformers	:	IS 3156/1992
HV Porcelain Bushing	:	IS 2099/1986
Oil	:	IS 335/1983
Galvanization	:	IS 2633
Primary Terminals	:	IS 10601

### 3. TYPE FOR 33 KV :

The 3P4W, metering transformer equipment should be of pole mounting type for outdoor use. They are to be used in 33kV 3 Phase 3 Wire 50 cycles network. The equipment is required for operation of 3P4W, HT Trivector Meters and should be oil cooled.

The CTPT sets shall have the following ratings.

- i. Rated Voltage: 33 KV
- ii. Highest system voltage: 36 KV
- iii. Insulation level : 36 KV
- iv. Standard Impulse withstand voltage : 170 KV Peak
- v. One minute power frequency withstand Voltage
  - a. Primary: 70 KV
  - b. Secondary: 3 KV
- vi. Short time thermal current and its duration
  1. 18 KA for 1 sec.
- vii. Class of Accuracy: 0.2
- viii. Rated burden per Phase
  1. For CTs : 15 VA
  2. For PTs : 50 VA
- ix. Frequency: 50 HZ
- x. Maximum attainable winding temperature = 80 deg C
- xi. Minimum Phase to Phase distance = 430 mm external.
- xii. Shortest distance between live part & earth = 380 mm external.
- xiii. Creepage distance of HV bushing 900mm (Min) ,(IS-3156 – I, 1992 )
- Xiv. Gauge of MS Tank Min 5mm for top cover & 3.15 mm bottom & all other side.
- Xv. Entire tank shall be hot dip galvanised.
- Xvi. Bi-metallic terminal connector with a nut, plane washer, spring washer & check nut suitable for aluminium conductor required for different rating of metering units. Six nos to be provided with each metering units.
- Xvii. Minimum volume of oil shall not be less than 130 Ltr.

### 5. DESIGN :

- a) The equipment shall be designed to ensure satisfactory operation under all conditions of service to facilitate easy inspection, cleaning and repairs.
- b) The design shall incorporate every reasonable precaution and provisions for safety of all those concerned in the operation and maintenance of the equipment. A pressure relief valve shall be invariably provided to the CTPT set. It shall be provided at the top cover of the tank.

- c) All outdoor apparatus shall be so designed that water cannot collect at any point and enter the CT/PT set. The top cover of the tank, secondary terminal cover, inspection chamber cover plate may be designed accordingly.
- d) All connections and terminals shall be of sufficient size for carrying the specified currents continuously without undue heating.
- e) All bolts, nuts, washers in contact with non-ferrous parts shall be of brass.
- f) All ferrous parts including bolts & nuts liable to corrosion, forming integral part of the equipment shall be smoothly and continuously hot dip galvanised.
- g) The secondary terminal box with double door arrangement (Inner & Outer) detail at (10-J), inspection cover and oil gauge shall be provided with MU.
- h) **The core shall be high grade non-ageing electrical silicon laminated steel of low hysteresis loss and high permeability to ensure high accuracy, at both normal and over current/ voltage.**
- i) **All winding shall be of insulated high grade Electrolytic copper wire and the manufacturing of the units shall be done in completely closed and air-conditioned room otherwise Fibre glass insulation sleeves are to be provided for primary winding. Details of winding and core shall be furnished.**
- j) **The CTPT set should have Three CTs and One three phase PTs with star / star connection.**

6. **SEALING :**

Sealing bolts for sealing at 4 points on the secondary terminal box (both inner & outer door), inspection cover, the top cover of the tank shall be **provided**. This may be made by providing a hole **on tail of corner bolts** of adequate size to pass the sealing wire of above 13 SWG.

7. **FLUCTUATION IN VOLTAGE AND FREQUENCY :** For continuous operation, entire equipment shall be subjected to variation of voltage up to **plus 20 minus 30** percent and frequency of plus or minus **5** percent.

8. **INSTRUMENT TRANSFORMERS :**

- a) The voltage and current transformers shall have normal continuous rating as per the schedule of requirement.
- b) The voltage transformer shall be so designed that the increased magnetizing currents due to any persisting over voltage, does not produce injurious over heating. Phase barriers shall be provided.
- c) The peak value of the rated dynamic current shall not be less than 2.5 times the rated short time thermal current unless stated otherwise. (6.62 of ISS : 2705/Part-I of 1992, latest version).
- d) Modified polyester enamel copper wire is to be used for winding and it shall conform to IS-4800/Part-V (latest version).
- e) The terminals of the instrument transformer shall be clearly marked by distinctive letters as stated in Annex "C" of ISS : 3156/Part.I/1992 (latest version) for voltage transformer and Annex "C" of IS-2705/Part.I/1992 (latest version) for current transformers.
- f) The winding shall be neatly laid and anchored.
- g) **The metering set tank and other metal parts shall be galvanised both inside & outside as per latest IS applicable.**

9. **INCOMING SIDE:**

- a) **TERMINALS : Brass rods 30 mm dia for Primary and 6 mm dia for secondary.**
- b) Bushing for outgoing side of CT/PT set :  
The porcelain portion of HT bushings shall be of standard make and conform to IS-2099/1996.  
The dimensions of the bushings shall conform to IS- 3347/Part.III/1972. The minimum phase-to-phase clearance shall be as per IS/GTP.

**The tests as per IS-2099/1962 shall be conducted on the MU bushings as detailed below:**

- a) **Dry flash over voltage.**  
b) **Wet flash over voltage.**  
c) **Dry 1 Minute withstand voltage.**  
d) **Impulse withstand voltage (1.2/50 Micro Seconds –ve wave)**  
e) **Manufacturer's test certification may be furnished for every lot of offer.**

The bushings shall be of reputed manufacturers like M/s. Jayashree Insulators, M/s. WS Industries, M/s. BHEL, M/s. Allied Ceramics, M/s. India Potteries, M/s. Venkateshware Ceramic Industries and M/s. IEC which are having complete testing facilities. The firm has to furnish the bushing test certificates during inspection.

**The bushing stems shall be provided with suitable bimetallic connectors so as to connect the jumper without disturbing the bushing stem.**

- f) **The bush rod stem length should be at least 40 mm and 3 nuts with 2 flat washers of brass material should be provided with each bush rod.**

10. **STEEL TANK :**

- a) The oil filled container incorporating the voltage transformers and current transformers should be fitted with incoming and outgoing primary terminals and secondary terminal box. The secondary terminal box shall be arranged on sides. The general arrangement drawing with 3 bushing on the incoming side and 3 bushings on the outgoing side shall be submitted along with tender. Adequate level of oil shall be maintained in the tank for proper cooling & curb flashover.
- b) The tank shall be built with a plate of 5 mm thick top and 3.15 mm sides and bottom and with all fittings shall be capable of withstanding without leakage or distortion at the standard test pressure. All joints of the tank and fittings shall be hot oil tight and no leakage should occur during service. Both side of the joint should have continuous welding.
- c) It shall be provided with an oil gauge as shown. The oil gauge glass shall be fixed to the side of the raised wall of the inspection box.  
  
The tank shall be provided with necessary lifting lugs. Tank including top cover shall be hot deep Galvanised.
- d) The secondary terminal box cover, tank cover and inspection cover and other vertical joints where gaskets are used may be suitably bent **at least 25 mm bent** with necessary sealing arrangement **with sealing bolts at all corners and bolts should be at least 10 mm diameter GI bolts spaced maximum 70 mm apart.** This is to safeguard against seepage of water into tank in case of damaged gasket.

- e) The **6 mm** gaskets shall be dovetailed without joints to prevent moisture entry. In case of dovetailed joint, they shall not be more than two. The gaskets shall be of good quality Neoprene or **superior quality** rubberized gasket.
- f) **EARTHING:** Two earthing terminals shall be adequate size protected against corrosion and metallicly clean and identified by means of the sign marked in a legible and indelible manner on or adjacent to the terminals.
- g) All bolts should be provided with 2 flat washers and a spring washer with a nut.
- h) Conservator should not be provided for these CTPT sets.
- i) The Secondary terminal box incoming hole should be 32 mm diameter and at a suitable height from bottom to avoid replacement/ modification of secondary wires pipe when CTPT set is replaced.. The secondary terminals size should be 6 mm diameter, 25 mm stem length, 2 flat washers with 3 nuts of brass material should be provided. The terminals should be provided at least 70 mm height from incoming hole and clearances shall be as per IS to avoid shorting terminals due to secondary wires pipe.
- j) Secondary chamber shall have double door (inner & outer) with suitable arrangement for sealing of both the doors. The inner door shall be of transparent polycarbonate so that secondary terminal connections can be viewed with out breaking the inner door seals.
- k) The following details of equipment shall be engraved on tank with at least 10 mm letters.
  1. Make, 2. Ratio, 3. Class of accuracy, 4.Serial No., 5. Month & year of manufacturing.
- l) 24 months guarantee embossed plate shall be welded opposite side of name plate.

**11. MOUNTING ARRANGEMENT :**

The under base of all CTPT sets shall be provided with two 75x40mm GI channels and foundation dimensions shall be suitable placing with tank base uniform for all sets with only +/- 2 mm tolerance, to avoid modification of structure/ plinth, whenever CTPT set is replaced.

- 12. OIL :** The insulation oil used in the tank shall comply with the requirements specified in latest relevant IS : 335/93 and as per Annexure-c.

**13. GUARANTEED TECHNICAL PARTICULARS:**

The Technical Particulars as specified in IS shall be guaranteed. Every tenderer should furnish the particulars required and guarantee the values so furnished for the supplies.

**14. TESTS :**

**TYPE TESTS:** The equipment offered shall be fully type tested from recognized standard govt. national laboratory by the bidder as per the relevant standards. The bidder shall furnish copies of type test certificates with the bid (for 0.2 class,3P4W, 33kv MU ). These type test certificates shall be got approved by the purchaser before commencement of supply. The bidders also furnish type test certificates for bushings and oil along with the bid. **The type test certificates shall be not older than (3) years from the date of opening of bid.**

### TYPE TESTS FOR CTs :

- a) Verification of terminal marking and polarity
- b) Short time current Test.
- c) Temperature rise test.
- d) Lightning Impulse Test.
- e) High Voltage Power frequency wet withstand voltage test.
- f) Determination of errors or other characteristics according to the requirements of the appropriate designation or accuracy class.

### TYPE TESTS FOR PTs :

- a) Verification of terminal marking and polarity.
- b) High voltage Power frequency wet withstand voltage test.
- c) Power frequency dry withstand tests on Primary winding.  
Power frequency dry withstand test on Secondary winding.
- d) Determination of errors according to the requirements of the appropriate accuracy class.
- e) Temperature rise test.
- f) Impulse Voltage test.
- g) Lightning Impulse test

### TYPE TESTS FOR TRANSFORMER BUSHINGS :

- a) Dry flash over voltage.
- b) Wet flash over voltage.
- c) Dry 1 Minute withstand voltage.
- d) Impulse withstand voltage (1.2/50 Micro Seconds –ve wave)

### ACCEPTANCE AND ROUTINE TESTS :

The following shall be conducted as per IS:3156 (Latest version).

- a) Verification of Terminal marking and polarity.
- b) Power frequency/ dry withstand tests on primary windings.
- c) Power frequency dry withstand tests on secondary windings.
- d) Determination of errors according to the requirements of the appropriate accuracy class.
- e) **Air pressure test on empty tank of transformer opened for physical verification test (Once for every lot offered for pre-despatch inspection)**

All acceptance and routine tests as stipulated in the relevant standards for CTs & PTs shall be carried out by the supplier in presence of purchaser's representatives.

Immediately after finalization of the programme of acceptance/ routine testing, the manufacturer shall give advance intimation to the purchaser, to enable him to depute his representative for witnessing the tests.

### 15. DRAWINGS AND LEAFLETS :

Two sets of drawings showing clearly the general arrangements, sectional views, fitting details, electrical connections, **foundation details, overall dimensions** (length, breadth & height) and design features of each component part should accompany the tender. The bidder has to submit clear & detail drawing with description how he will arrange the double door system in secondary chamber with sealing. Technical leaflets giving the operating instructions should also be furnished along with tender. Tenders without details are liable to be rejected.

### 16. DEVIATIONS:

The deviations between tendered CTPT sets specifications and Standard Lab (CPRI, ERDA, etc.,) type tested CTPT set along with detailed reasons for deviations shall be submitted along with tender.

**17. TOLERANCES:**

Unless otherwise specified herein the test value of the transformers supplied should be within the tolerance permitted in the IS on the guarantee values.

**18. SEALING OF CTPT SETS AFTER TESTING AND INDIVIDUAL TEST REPORTS:**

After witnessing testing on sample quantity and physical inspection of all offered CTPT sets, the purchaser's representative will provide numbered plastic seals to two opposite corners of tank, Secondary Chamber and inspection cover of all offered CTPT sets, for delivery of correct inspected materials only. The manufacturer has to provide test report duly mentioning all test results, seals numbers and name & address of purchaser's representative after inspection is over. The seals numbers shall also be mentioned in the test reports signed by purchaser's representative submitted for delivery instructions.

**19. INSPECTION AND TESTING OF TRANSFORMER OIL :**

To ascertain the quality of transformer oil the manufacturer's test report should be submitted at the time of inspection. Arrangements should also be made for testing the transformer oil, after taking out the samples from the manufactured CTPT sets and tested in the presence of CESU representative (or) if desired, in an independent laboratory.

**20. DEPARTURE FROM SPECIFICATION :**

If the tenderer wishes to depart from this specification in any respect, he shall draw the attention to such points of departure explaining fully the reasons thereof. Unless this is done the requirements of this specification will be deemed to have been accepted in every respect.

**21. NAME PLATE : -**

The Purchase order No. and Date of purchase order, the words "PROPERTY OF CENTRAL ELECTRICITY SUPPLY UTILITY OF ORISSA" should be etched on the Name Plate. **The name plate shall be non-detachable type & fixed with rivets, not with bolts & nuts. The nameplate should bear year & month of manufacture & other data as per IS.**

**22. WARRANTY :**

The supplier will warrant for the satisfactory functioning of the material / equipment as per specification for a minimum period of 24 months from the date of last supply of the material / equipment in good condition.

23. The tenderer shall indicate the source of all materials. He shall also indicate the name of the supplier and make of conductor, Transformer oil Electrical Steel Laminations, Construction Steel etc.

**24. FITTINGS :**

The following standard fittings shall be provided.

- a) Rating and terminal marking plates non detachable -1No.
- b) Earthing terminals with bolt, nuts & washers for connecting earth wire - 2Nos.
- c) Lifting lugs -4Nos.for main tank and 2Nos. for top cover.
- d) Pressure relief valve. – 1 No.
- e) Bimetallic terminal connectors on the HV bushings – 6 Nos.
- f) HV bushings Outdoor – 6 Nos.
- g) Secondary terminals bushings – 16 Nos.
- h) Base channels 75 x 40 mm.
- i) 2 year guarantee embossed plate welded to tank opposite side of name plate.

**ANNEXTURE – A**

GUARANTEED TECHNICAL PARTICULARS OF OUTDOOR OIL IMMERSED 33 KV MU (CT: PT UNITS).  
(Tender Specification No. CESU/A&C/ 172 /10-11)

Sl no	Particulars	Requirement	Offered
1	Maker's name & address	To be indicated	
2	Manufacturer's Type & Design	To be indicated	
3	Type of cooling	To be indicated	
4	Nominal System Voltage	33 KV	
5	Highest System Voltage	36 KV	
6	Frequency.	50 HZ	
7	Specification of CT & PT of Metering Unit		
A	<b>Current Transformer</b>		
	i	Type	3P4W, ( 3 CTs ) Oil immersed
	ii	CT Ratio	400-200/1A
	iii	Accuracy Class	0.2
	iv	Rated output	15 VA
	v	Insulation level	70KVrms/ 170 KV pk
	vi	Short time thermal current rating	CT Primary 18 KA for 1 sec
	vii	Saturation factor	To be indicated
	viii	Normal current density of primary winding	=<1.6 Amps per Sq.mm
	ix	Knee Point Voltage	To be indicated
	x	Continuous percentage over load	120%
	xi	ISF	As per IS
B	<b>Potential Transformer</b>		
	i	Type	( One 3P4W ,Potential Transformer )Oil immersed
	ii	PT ratio	33 KV/√3V /110/ √3V
	iii	Rated output VA/phase	50
	iv	Class of accuracy	0.2
	v	Insulation level	70KVrms/ 170 KVpk
	vi	Winding connection	Star/Star
vii	Rated voltage factor & duration	To be indicated	
8.	Dimension of MS hot dip Galvanized tank		
	a	Height mm	To be indicated
	b	Breadth mm	
	c	Length mm	
9.	Thickness of MS Tank Side walls, Bottom		3.15mm
	Top		5 mm
	Edge bending in the Top Cover		To be provided
	Standard pressure & duration that can be withstand.		To be indicated
10.	<b>Weight of core and winding</b>		
A.	Current transformer		
	i	Core	To be indicated in separate sheet for each rating
	ii	Primary winding	
iii	Secondary winding		
B.	Potential transformer		
	i	Core	To be indicated
	ii	Primary winding	
iii	Secondary winding		
11.	Quantity of oil in Ltr ( Min 130 Ltrs)		To be indicated
	Grade of Oil		To be indicated
12.	Total weight of complete ME including all accessories and oil		To be indicated

13	Resistance of primary & secondary winding per phase at 75° C:-			
	a	CT Winding (i) Primary	To be indicated in separate sheet for each rating	
		(ii) Secondary		
	b	PT Winding (i) Primary	To be indicated	
(ii) Secondary		To be indicated		
14	Maximum attainable winding temperature		85° C	
15	a	Minimum phase to phase distance	430mm	
	b	Shortest distance between metal part & earth	380 mm	
16	a	Make & type of HT bushing	To be indicated	
	b	Creepage distance of HV bushing	900mm (Min)	
17	Bi-metallic terminal connector with nut, plain washer, spring washer & check nut suitable for aluminum conductor as per CT rating.		6 nos to be provided	
18	Type of core material		To be indicated	
19	Type & thickness of gasket used on			
	a	Top cover tank	To be indicated	
	b	Secondary terminal box	To be indicated	
	c	HV bushing	To be indicated	
20	Details of Metering Unit			
<b>A</b>	<b>CT details</b>			
	<b>a</b>	<b>Cross section area of each turn of CT winding (in sq. mm.)</b>		
	i.	Primary winding	To be indicated in separate sheet for each rating	
	ii.	Secondary winding		
	<b>b.</b>	<b>No. of turns</b>		
	i.	Primary winding	To be indicated in separate sheet for each rating	
	ii.	Secondary winding		
	<b>c.</b>	<b>Winding material</b>		
	i.	Primary winding	To be indicated	
	ii.	Secondary winding	To be indicated	
	<b>B</b>	<b>PT details</b>		
		<b>a</b>	<b>Cross Section area of each turn of PT (in sq. mm.)</b>	
		i.	Primary winding	To be indicated
		ii	Secondary winding	To be indicated
<b>b</b>		<b>Number of turns</b>		
i.		Primary winding	To be indicated	
ii		Secondary winding	To be indicated	
<b>c</b>		<b>Winding materials</b>		
i.		Primary winding	To be indicated	
ii		Secondary winding	To be indicated	
21	Identification/marketing of			
	i.	Primary terminals		
	a	Incoming	RM, YM, BM	
	b	Outgoing	RL, YL, BL	
	ii	Secondary terminals		
	a	CTs	1s1- 1s2-1s3, 2s1-2s2-2s3, 3s1-3s2-3s3	
b	PTs	r,y,b,n		
22	Size and material of			
	i.	Primary studs	M30	
	jj	Secondary studs	M6	
23	Secondary Chamber shall have double door type & sealing arrangement in both the doors.		To be provided	

**Signature of Bidder  
With Seal of Company**

**ANNEXTURE – B**

**GUARANTEE TECHNICAL PARTICULARS FOR OIL  
(Tender Specification No. CESU/A&C/ 172 /10-11)**

Sl. No.	Characteristic.	Particulars.	To be furnished by the bidder
1.	Appearance.	The oil shall be clear and transparent and free from suspended matter or sediments and should conform to IS-335/93 or latest versions.	
2.	Density at 27 degrees C (max)	0.89 g/cm.	
3.	Kinematic Viscosity at 27 degrees C (max)	27 CST.	
4.	Interfacial Tension at 27 Degrees C (max)	0.04 N/M.	
5.	Flash point, pensky – marten (closed) (min)	140 Degrees C.	
6.	Pour point (max)	-10 Degrees C.	
7.	Neutralisation Value : a) Total acidity (max) b) In-organic acidity alkalinity.	0.01. Nil	
8.	Corrosive sulphur.	Non-corrosive.	
9.	Electric Strength (breakdown voltage/ minute) a) New unfiltered oil. b) After filtration.	30 KV (rms) 50 KV (rms)	
10.	Dielectric dissipation factor (Tan delta at 90 Deg. C (min)).	0.005.	
11.	Specific resistance (Resistivity). a) At 90 Deg. C (min) b) At 27 Deg. C (min)	$30 \times 10^{12}$ ohms- cm. $500 \times 10^{12}$ ohms-cm	
12.	Oxidation stability a) Neutralisation value after oxidation (max) b) Total sludge after oxidation (max)	0.2 mg KOH/g 0.05% by Weight.	
13.	Ageing characteristics after accelerating ageing (open breaker method with copper catalyst) for 96 Hrs.as per ASTM D. 1934-1978) a) Specific resistance (Resistivity) a. At 27 Deg. C (min) b. At 90 Deg. C (min) b) Dielectric dissipation factor Tan delta at 90 Deg. C (max) c) Total sludge value (max) d) Total acidity (max)	$2.5 \times 10^{12}$ ohms-cm $0.20 \times 10^{12}$ ohms-cm 0.20 0.5 0.5	
14.	Presence of oxidation inhibitor.	Nil	
15.	Water content (max)	50 ppm	

THE ABOVE PARTICULARS ARE HEREBY GUARANTEED.

Name of the Firm :  
Signature :  
Designation :  
Date :

**ANNEXTURE - C**

**SCHEDULE OF BIDS**  
**(Tender Specification No. CESU/A&C/ 172 /10-11)**

1. Name of tenderer with Office and factory address :  
Tel. No./Telex No./Fax No.
2. Specification No. :
3. Address of Local Office and Tel. No./Telex/Fax No. :
4. Tenderer's Reference No.
5. Sales Tax Regn. No. and Pan No. :
6. Last date and time for submission of Tender :
7. Date and time for opening of Tender
8. Testing Facilities available :
9. Category of organization :
10. Whether qualifying certificates submitted :
11. Particulars of Earnest Money submitted :
12. Excise Duty rate, if applicable :
13. Sales Tax Rate, if applicable :
14. Whether the material/equipment offered conforms to the relevant ISS specification and drawing (Quote Rep.) :
15. Whether executed orders previously for the items tendered now. Please give full details of supplies made. :
16. Similar details in respect of supplies made to other SEBs. :
17. Whether Sales Tax clearance Certificate enclosed :
18. Whether Income Tax Clearance Certificate enclosed. :
19. Offer valid up to :

20. Delivery Schedule :  
a) Commence with minimum quantity  
b) Rate of delivery per month/quarter and completion time. :
22. If any deviation, please mention in deviation sheet enclosed. :
23. Technical literature/catalogue of the materials offered enclosed or not. :
24. Manufacturer's supply experience including user's certificate furnished or not. :
25. Type Test Certificate from any National Testing Laboratory. Govt. of India. :
26. Whether Guaranteed Technical Data Sheet Particulars submitted. :
27. Turnover Certificate furnished from Chartered Accountant along with balance sheet for last three years to judge the financial soundness. In case of a bidder is a loss making organization, their bid will not be considered. :
28. Name & Designation of contacting Person
29. Address for correspondence.

**Signature of Bidder**  
**With Name and Seal of company**

(This form is to be duly filled up and duly signed by the Bidder & submitted along with the tender.)

**ABSTRACT OF GENERAL TERMS AND CONDITIONS**

**(Tender Specification No. CESU/A&C/ 172 /10-11)**

1. Earnest Money Furnished :
2. Manufacturer's supply experience including user's certificate furnished or not. :
3. Deviation to the specification, if any (list enclosed or not). :
4. Type Test Certificate from any National Testing Laboratory. Govt. of India submitted or not. :
5. Guaranteed Technical Particulars submitted or not. :
6. Delivery
  - a) Date of commencement :
  - b) Rate of delivery per month :
7. Whether agreed to CESU
  - a) Terms of payment :
  - b) Guarantee Clause :
  - c) Security deposit clause :
  - d) Liquidated damage clause :
  - e) Risk Purchase Clause :
  - f) Inspection Clause :
  - g) Packing Clause :
  - h) Retesting Clause
  - i) Delivery Clause
8. Whether agreeable to furnish security deposit in shape of Bank Guarantee in case his tender is successful. :
9. Manufacturer/Authorized representative :
10. Turnover Certificate furnished or not. :
11. Valid ITCC & STCC submitted :

**Signature of Bidder  
With Seal of Company**

**[This form is to be duly filled up and duly signed by the Bidder & submitted along with the tender.]**

**ANNEXTURE - E**

**(PRICE SCHEDULE & QUANTITY )**

**(Tender Specification No. CESU/A&C/ 172 /10-11)**

**33 KV, 0.2 Class,3P,4W** Outdoor pole mounting type oil immersed Combined Metering Equipments (CT:PT units) of following ratio conforming to IS:2705:1992, IS:3156:1992 with latest amendment and technical specification attached:-

(To be kept in envelope containing Part-III of tender documents)

Sl. No	CT Ratio	Quantity (Nos)		Unit Ex-works price including packing & forwarding (Rs.)	Excise Duty inclusive of education cess (Rs.)	SaleTax/ VAT (Rs.)	Freight Insurance Charges (Rs)	Entry Tax (Rs)	Unit total Landing price including other taxes if any.( Rs )	Total FOR price (Rs.) (5+6+7+8+9+10)
		Tendered	Offered							
1	2	3	4	5	6	7	8	9	10	11
i	400-200/1A	125								
									Total Price	

Amount in Words :- Rupees

Note:-

- (1) Price Bid to be furnished in above format only.
- (2) Responsibility of any lack of clarity leading to confusion will rest with the bidders.
- (3) Remarks, if any, may please be specified clearly.

PLACE:

SIGNATURE OF TENDERER  
NAME IN FULL

DATE

DESIGNATION/ STATUS IN THE FIRM  
COMPANY SEAL

**ANNEXTURE – F**

**(Tender Specification No. CESU/A&C/ 172 /10-11)**

**NON COMPLIANCE SCHEDULE :-**

On this schedule the bidder shall provide a list of non compliance with this specification, documenting the effects that such non compliance is likely to have on the equipment's life and operating characteristics. Each non-compliance shall be referred to the relevant specification clause.

<b>Clause No</b>	<b>Non Compliance</b>

**Signature of Bidder  
With Seal of Company**

**ANNEXTURE - G**

**(Tender Specification No. CESU/A&C/ 172 /10-11)**

**TEST CERTIFICATES SCHEDULE**

On this schedule a list of the test certificates included with the bid shall be provided. This list should include type test certificates and samples routine test reports. Each certificate listed shall be referred to the relevant specification clause and item of equipment to which the test applied.

Clause No.	Type Test Certificate or Routine Test Report

**Signature of Bidder  
With Seal of Company**

**ANNEXTURE - H**

**PROFORMA FOR COMPOSITE BANK GUARANTEE FOR SECURITY DEPOSIT, PAYMENT AND PERFORMANCE**

This Guarantee Bond is executed this \_\_\_\_ day of \_\_\_\_\_ 2010 by us the \_\_\_\_\_ Bank at \_\_\_\_\_  
P.O. \_\_\_\_\_ P.S. \_\_\_\_\_ Dist \_\_\_\_\_ State \_\_\_\_\_

Whereas the ( indicate designation of purchaser )CENTRAL ELECTRICITY SUPPLY UTILITY OF ORISSA , Head Office - IDCO Towers (2<sup>nd</sup> Floor) , Bhubaneswar – 751 022 a Body corporate , constituted under the Electricity Act, 2003 (herein after called “ CESU”) has placed Purchase Order No. \_\_\_\_\_ Dt. \_\_\_\_\_ (hereinafter called “the Agreement”) with M/s \_\_\_\_\_ (hereinafter called “the Contractor”) for supply of \_\_\_\_\_ (name of the material) and whereas CESU has agreed (1) to exempt the Contractor from making payment of security deposit, (2) to release 100% payment of the cost of materials as per the said agreement and (3) to exempt from performance guarantee on furnishing by the Contractor to CESU a composite Bank Guarantee of the value of 10% (ten percent) of the Contract price of the said Agreement.

1. Now, therefore, in consideration of CESU having agreed (1) to exempt the Contractor for making payment of security deposit, (2) to release 100% payment to the Contractor and (3) to exempt from furnishing performance guarantee in terms of the said Agreement as aforesaid, we the \_\_\_\_\_ Bank, Address \_\_\_\_\_ (code No. \_\_\_\_\_) (hereinafter referred to as “the Bank”) do hereby undertake to pay to CESU an amount not exceeding Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) only against any loss or damage caused to or suffered by CESU by reason of any breach by the said Contractor(s) of any of the terms or conditions contained in the said Agreement.

2. We, the \_\_\_\_\_ Bank do hereby undertake to pay the amounts due and payable under the guarantee without any demur, merely on a demand from CESU stating that the amount claimed is due by way of loss or damage caused to or suffered by CESU by reason of any breach by the said Contractor(s) of any of the terms or conditions contained in the said Agreement or by the reason of any breach by the said Contractor’s failure to perform the said Agreement. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) only.

3. We, the \_\_\_\_\_ Bank also undertake to pay to CESU any money so demanded notwithstanding any dispute or dispute raised by the Contractor(s) in any suit or proceeding instituted/ pending before any court or Tribunal relating thereto our liability under this Agreement being absolute and irrevocable.

The payment so made by us under this bond shall be valid discharge of our liability for payment there under and the Contractor(s) shall have no claim against us for making such payment.

4. We, the \_\_\_\_\_ Bank further agree that the guarantee herein contain shall remain in full force and affect during the period that would be taken for the performance of the said Agreement and it shall continue to remain in force endorsable till all the dues of CESU under by virtue of the said Agreement have been fully paid and its claim satisfied or discharged or till CENTRAL ELECTRICITY SUPPLY UTILITY OF ORISSA certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharge this guarantee and will not be revoked by us during the validity of the guarantee period.

Unless a demand or claim under this guarantee is made on us or with \_\_\_\_\_ (Local Bank Name, address and code No.) \_\_\_\_\_, Bhubaneswar / Cuttack in writing on or before \_\_\_\_\_ (date) we shall be discharged from all liability under this guarantee thereafter.

**Contd : - P/ 2**

5. We, the \_\_\_\_\_ Bank further agree that CESU shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said Contractor(s) and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said Contractor(s) or for any forbearance act or omission on part of CESU or any indulgence by CESU to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would but for this provisions have effect of so relieving us.

6. The Guarantee will not be discharged due to change in the name, style and constitution of the Bank and or Contractor(s).

7. We, the \_\_\_\_\_ Bank lastly undertake not to revoke this Guarantee during its currency except with the previous consent of CESU in writing.

Dated \_\_\_\_\_ the \_\_\_\_\_ day of Two thousand \_\_\_\_\_ .

Notwithstanding anything contained hereinabove.

Our liability under this Bank Guarantee shall not exceed Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ ) only.

The Bank Guarantee shall be valid up to \_\_\_\_\_ only.

We or our Bank at Bhubaneswar / Cuttack (Name & Address of the Local Bank) are liable to pay the guaranteed amount depending on the filing of claim and any part thereof under this Bank Guarantee only and only if you serve upon us or our local Bank at Bhubaneswar / Cuttack a written claim or demand and received by us or by Local Branch at Bhubaneswar / Cuttack on or before Dt. \_\_\_\_\_ otherwise bank shall be discharged of all liabilities under this guarantee thereafter.

For \_\_\_\_\_  
( indicate the name of the Bank )

N.B.:

(1) Name of the Contractor:

(2) No. & date of the purchase order / agreement:

(3) Amount of P.O.:

(4) Name of Materials:

(5) Name of the Bank:

(6) Amount of the Bank Guarantee:

(7) Name, Address and Code No. of the Local Branch:

(8) Validity period or date up to which the agreement is valid:

(9) Signature of the Constituent Authority of the Bank with seal:

(10) Name & addresses of the Witnesses with signature:

(11) The Bank Guarantee shall be accepted only after getting confirmation from the respective Banks.