

Registered Office of NESCO, WESCO & SOUTHCO

North Eastern Electricity Supply Company of Orissa Limited (NESCO)
Western Electricity Supply Company of Orissa Limited (WESCO)
Southern Electricity Supply Company of Orissa Limited (SOUTHCO)
Registered Office
123, Sector-A, Zone-A, Mancheswar Industrial Estate, Bhubaneswar, Orissa-751010
Tel No. (0674) 2582728, Fax No. (0674) 2586343

Volume -I

**Tender Notification for
Single Phase Meter:CSO/10/SPH Meter
Date: 05.08.2008
Due Date for Submission of Bids: 26.08.2008**

Section – I

INVITATION FOR BIDS (IFB)

2008-09

Tender Notification: CSO/10/SPH Meter

Dated : 05.08.2008

Registered Office of NESCO, WESCO & SOUTHCO

SECTION – I: INVITATION FOR BIDS (IFB)

1.0 Event Information

- 1.01** The Registered Office of NESCO, WESCO & SOUTHCO (here in after referred as **CSO**) invites Sealed tenders for supply of Single Phase meters (5-30)Ampere range from reputed manufacturers to NESCO, WESCO & SOUTHCO. The bidder must qualify the technical requirements as specified in clause 2.0 stated below. The sealed envelopes shall be duly superscribed as “**TENDER NOTICE/CSO/10/SPHMETER due for opening on dt. 26.08.08.**”

QUANTITY AND DELIVERY REQUIREMENT

Sl. No.	Item Description	Specification	Requirement		Location
			Total Qty.	Delivery Schedule	
NESCO, BALASORE, ORISSA					
1	1 Ph Meter 5-30 Amp	SECTION IV	120000 nos.		Central Store, NESCO, Balasore
WESCO, BURLA, ORISSA					
2	1 Ph Meter 5-30 Amp	SECTION IV	150000 nos.		Central Stores WESCO, Burla
SOUTHCO, BERHAMPUR, ORISSA					
3	1 Ph Meter 5-30 Amp	SECTION IV	30000 nos.		Central Stores SOUTHCO, Berhampur

Note : Quantity may vary to any extent of above mentioned total quantity for all material.
Of the above total quantities of each discom, 50% will be only meter and balance 50% meter with box.

- 1.02** The schedule of specifications with detail terms & conditions can be obtained from address given below against demand draft of Rs. 5000/- plus 4% VAT per Group, drawn in favour of NESCO Ltd., payable at Bhubaneswar. The tender papers will be issued on all working days upto 25.08.2008.
The tender documents can also be downloaded from the website “nescoorissa.com”, “wescoorissa.com”, “southcoorissa.com”.

Registered Office of NESCO, WESCO & SOUTHCO

In case tender papers are downloaded from the above website, then the bidder has to enclose a demand draft covering the cost of bid documents as stated above in a separate envelope with suitable superscription "Cost of Bid Documents : Tender Notice Ref : CSO/10/SPH Meter". This envelope should accompany the Bid Documents.

1.03 Offers will be received upto 2.00 PM. on dt. 26.08.08 as indicated earlier will be opened at the address given below at 3.00 PM. on same day in presence of the authorized representatives of the bidders. The schedule of specifications with detail terms & conditions are enclosed. It is the sole responsibility of the bidder to ensure that the bid documents reach this office on or before the cut off due date of tender opening.

1.04 CSO reserves the right to accept / reject any or all Tenders without assigning any reason thereof and alter the quantity of materials mentioned in the Tender documents at the time of placing purchase orders. Tender will be summarily rejected if:

- (i). Bid security @ 2% (one percent) of the Tender value is not deposited in shape of Bank Draft in favor of NESCO Ltd., payable at Bhubaneswar or Bank Guarantee executed in favour of NESCO Ltd., Plot 123, Sector – A, Zone – A, Mancheswar Industrial Estate, Bhubaneswar – 751 010. Bid security against previous Tenders, if any, will not be adjusted towards Bid security against this Tender.
- (ii). The offer does not contain "FOR, Balasore/Burla/Berhampur price indicating break-up towards all taxes & duties".
- (iii). Complete Technical details are not enclosed.
- (iv). Sample is not submitted along with the offer.
- (v). Tender is received after due time due to any reason.

2.0 Qualification Criteria :-

The prospective bidder must qualify all of the following requirements to be eligible to participate in the bidding. Bidders who meet following requirements will be considered as successful bidder and management has a right to disqualify those bidders who do not meet these requirements.

- a. The bidder must be a meter manufacturer
- b. The manufacturer should have experience of supplying to Electricity Distribution Utility/Undertaking in India a quantity of atleast 5 lakh static energy meters with LCD, memory and IR/optical port in any one year out of the last three years (i.e 05-06, 06-07 & 07-08).
- c. The bidder must possess valid ISO 9001:2000 certification for meter manufacturing.
- d. Firms who are debarred/blacklisted in other utilities in India will not be considered.
- e. Shall possess valid BIS licence.

Registered Office of NESCO, WESCO & SOUTHCO

3.0 Project Completion Schedules:

S. No.	Steps	Activity description	Due date
1	Technical Queries	<ul style="list-style-type: none"> ▪ All Queries related to RFQ 	16 th August' 2008
2	Technical Offer	<ul style="list-style-type: none"> ▪ It include clause by clause commentary, GTP, Type test report, BIS report, Quality report ▪ Bidder qualification data (sec IIIB) 	26 th August' 2008, 14.00 Hrs.
3	Commercial Offer	<ul style="list-style-type: none"> • Price for sph meter and box and Installation • Break up regarding basic price and taxes. • Delivery commitment 	26 th August' 2008, 14.00 Hrs.
4	Samples (2nos.)	<ul style="list-style-type: none"> • Sample with meter routine report as per bidder offer 	26 th August' 2008, 14.00 Hrs.
5	Submission of complete document in two part	<ul style="list-style-type: none"> • As per RFQ 	26 th August' 2008, 14.00 Hrs.
6	Opening of Technical Bid	<ul style="list-style-type: none"> • As per RFQ 	26 th August' 2008, 15.00 Hrs

This is a two part bid process . Bidders are to submit the bids a) Technical Bid b) Price Bid.

Both these parts should be furnished in separate sealed covers super scribing specification no. validity etc, with particulars as Part –I Technical Particulars & Commercial Terms & Conditions and Part-II “ price bid” and these sealed envelopes should again be placed in another sealed cover which shall be submitted before the due date & time specified.

The Part – I Eligibility and Technical Bid should not contain any cost information whatsoever and this will be opened on the due date i.e. on 26th August' 2008, 15.00 Hrs.

In case of Bids where the qualification requirements, technical suitability and other requirements are found to be inadequate, Part – II ‘Price Bid’ will be returned unopened.

b). The date and time of opening of Part – II – “Price Bid” will be intimated to the qualified bidders after technical evaluation of all the bids is completed.

Notwithstanding anything stated above, the Purchaser reserves the right to assess bidders capability to perform the contract, should the circumstances warrant such assessment in the overall interest of the purchaser. In this regard the decision of the purchaser is final.

4.0 Award Decision

Purchaser intends to award the business on a lowest bid basis, so suppliers are encouraged to bid competitively. The decision to place purchase order / letter of acceptance solely depends on purchaser on the cost competitiveness across multiple lots, quality, delivery and bidder’s capacity, in addition to other factors that Purchaser may deem relevant.

The purchaser reserves all the rights to award the contract to one or more bidders so as to meet the delivery requirement or nullify the award decision without any reason.

Registered Office of NESCO, WESCO & SOUTHCO

In the event of your bid being selected by purchaser (and / or its affiliates) and you subsequent DEFAULT on your bid; you will be required to pay purchaser (and / or its affiliates) an amount equal to the difference in your bid and the next lowest bid on the quantity declared in RFQ.

In case any supplier is found unsatisfactory during the delivery process, the award will be cancelled and NESCO/ WESCO/ SOUTHCO ORISSA (Discoms of Orissa) reserves the right to award other suppliers who are found fit.

5.0 Market Integrity

We have a fair and competitive marketplace. The rules for bidders are outlined in the Terms & Conditions. Bidders must agree to these rules prior to participating. In addition to other remedies available, we reserves the right to exclude a bidder from participating in future markets due to the bidder's violation of any of the rules or obligations contained in the Terms & Condition. Bidders who violate the marketplace rules or engage in behavior that disrupts the fair execution of the marketplace restricts a bidder to length of time, depending upon the seriousness of the violation. Examples of violations include, but are not limited to:

- Failure to honor prices submitted to the marketplace.
- Breach of the terms of the published in Request For Quotation.

6.0 Supplier Confidentiality

All information contained in this RFQ is confidential and may not be disclosed, published or advertised in any manner without written authorization from NESCO/ WESCO/ SOUTHCO ORISSA (Discoms of Orissa). This includes all bidding information submitted .

All RFQ documents remain the property of NESCO/ WESCO/ SOUTHCO ORISSA (Discoms of Orissa) and all suppliers are required to return these documents to NESCO/ WESCO/ SOUTHCO ORISSA (Discoms of Orissa) upon request.

Suppliers who do not honor these confidentiality provisions will be excluded from participating in future bidding events.

7.0 In addition to supply of Single phase meters , the bidders may also quote for the installation of the meters at consumer premises as per the specifications contained in Annexure –IV. At the discretion of the Purchaser , preference may be given to the bidder exercising this option

8.0 All correspondences with regard to the above shall be made to the following address:

Jasdev S Soni / S.K Sarangi
Central Services Office
(NESCO, WESCO & SOUTHCO)
Plot No. 123, Sector – A, Zone – A
Mancheswar Industrial Estate
Bhubaneswar – 751 010
FAX : (0674) 2586343
Email : jasdev.soni@gmail.com / suntasarangi@sify.com
Mobile : 9338465350 / 93376 46022

SECTION – II

**INSTRUCTION TO BIDDERS (ITB)
2008-2009**

Tender Notification : CSO/10/SPH Meters

Date: 05.08.2008

Registered Office of NESCO, WESCO & SOUTHCO

A. GENERAL

1.0 North Eastern Electricity Supply Company of Orissa Ltd. (NESCO), Western Electricity Supply Company of Orissa Ltd. (WESCO) and Southern Electricity Supply Company of Orissa Ltd. (SOUTHCO), hereinafter referred to as the "Purchaser" are desirous of implementing the various Systems Improvement / Repair & Maintenance works at their respective licensed area in the state of Orissa. The Purchaser has now floated this tender for procurement Single Phase meter (5-30)Ampere as notified earlier in this bid document.

2.0 SCOPE OF WORK

The scope shall include Design, Manufacture, Shop Testing at works conforming to the Technical Specifications enclosed along with Packing, Forwarding, Freight and Insurance and Unloading and proper stacking at Purchaser's stores.

3.0 DISCLAIMER

3.01 This Document includes statements, which reflect various assumptions, which may or may not be correct. Each Bidder/Bidding Consortium should conduct its own estimation and analysis and should check the accuracy, reliability and completeness of the information in this Document and obtain independent advice from appropriate sources in their own interest.

3.02 Neither Purchaser nor its employees will have any liability whatsoever to any Bidder or any other person under the law or contract, the principles of restitution or unjust enrichment or otherwise for any loss, expense or damage whatsoever which may arise from or be incurred or suffered in connection with anything contained in this Document, any matter deemed to form part of this Document, provision of Services and any other information supplied by or on behalf of Purchaser or its employees, or otherwise arising in any way from the selection process for the Supply.

3.03 Though adequate care has been taken while issuing the Bid document, the Bidder should satisfy itself that documents are complete in all respects. Intimation of any discrepancy shall be given to this office immediately.

3.04 This Document and the information contained herein are Strictly Confidential and are for the use of only the person(s) to whom it is issued. It may not be copied or distributed by the recipient to third parties (other than in confidence to the recipient's professional advisors).

4.0 COST OF BIDDING

The Bidder shall bear all costs associated with the preparation and submission of its Bid and Purchaser will in no case be responsible or liable for those costs.

B. BIDDING DOCUMENTS

5.0 BIDDING DOCUMENTS

5.01 The Scope of Work, Bidding Procedures and Contract Terms are described in the Bidding Documents. In addition to the covering letter accompanying Bidding Documents, the Bidding Documents include:

Volume - I

- | | | |
|-----|--------------------------------------|-----------------|
| (a) | Invitation for Bids (IFB) | - Section - I |
| (b) | Instructions to Bidders (ITB) | - Section - II |
| (c) | General Conditions of Contract (GCC) | - Section - III |
| (d) | Technical Specifications (TS) | - Section - IV |

Registered Office of NESCO, WESCO & SOUTHCO

Volume - II

- | | | |
|-----|-----------------------------------|------------------|
| (a) | Bid Form | - Annexure – I |
| (b) | BG Formats | - Annexure – II |
| (c) | Price Schedule | - Annexure – III |
| (d) | Meter Installation Specifications | - Annexure - IV |

5.02 The Bidder is expected to examine the Bidding Documents, including all Instructions, Forms, Terms and Specifications. Failure to furnish all information required by the Bidding Documents or submission of a Bid not substantially responsive to the Bidding Documents in every respect will may result in the rejection of the Bid.

6.0 AMENDMENT OF BIDDING DOCUMENTS

6.01 At any time prior to the deadline for submission of Bids, the Purchaser may, for any reasons, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the Bidding Documents by Amendment.

6.02 The Amendment shall be part of the Bidding Documents, pursuant to Clause 5.01, and it will be notified in writing by Fax/e-mail to all the Bidders who have received the Bidding Documents and confirmed their participation to Bid, and will be binding on them.

6.03 In order to afford prospective Bidders reasonable time in which to take the Amendment into account in preparing their Bids, the Purchaser may, at its discretion, extend the deadline for the submission of Bids.

C. PREPARATION OF BIDS

7.0 LANGUAGE OF BID

The Bid prepared by the Bidder, and all correspondence and documents relating to the Bid exchanged by the Bidder and the Purchaser, shall be written in the English Language. Any printed literature furnished by the Bidder may be written in another Language, provided that this literature is accompanied by an English translation, in which case, for purposes of interpretation of the Bid, the English translation shall govern.

8.0 DOCUMENTS COMPRISING THE BID

The Bid prepared and submitted by the Bidder shall comprise the following components:

- (a) Bid Form, Price & other Schedules (STRICTLY AS PER FORMAT) and Technical Data Sheets completed in accordance with Clause 9.0, 10.0, 11.0 and Technical Specification;
- (b) All the Bids must be accompanied with the required bid security as mentioned in the Section-I against each tender.
- (c) Power of Attorney indicating that the person(s) signing the Bid have the authority to sign the Bid and thus that the Bid is binding upon the Bidder during the full period of its validity, in accordance with clause 12.0.

Registered Office of NESCO, WESCO & SOUTHCO

9.0 BID FORM

9.01 The Bidder shall complete an 'Original' and another one 'Copy' of the Bid Form and the appropriate Price & Other Schedules and Technical Data Sheets furnished in the Volume-II of the Bidding Documents.

9.02 Bid Security

Pursuant to Clause 8.0 (b) above, the bidder shall furnish, as part of its bid, a bid security amounting to 1% of the total bid value (FOR Destination) as already specified in the Section-I. The bid security is required to protect the Purchaser against the risk of Bidder's conduct which would warrant the security's forfeiture.

The bid security shall be denominated in the currency of the bid, and shall be in the following form:

- (a) a bank guarantee issued by any scheduled bank strictly as per the format enclosed and shall be valid for a period of thirty (30) days beyond the validity of the bid.
- (b) Bank Draft in favour of NESCO, payable at Bhubaneswar.

Unsuccessful bidders' bid security will be discharged or returned as promptly as possible but not later than thirty (30) days after the expiration of the period of bid validity.

The successful bidder's bid security will be discharged upon furnishing the performance security.

The bid security may be forfeited :

- (a) if the Bidder:
 - i) withdraws its bid during the period of bid validity specified by the Bidder in the Bid Form; or
- (b) in the case of a successful Bidder, if the Bidder fails:
 - (i) to sign the Contract, or
 - (ii) to furnish the required performance security.

10.0 BID PRICES

10.01 Bidders shall quote for the entire Scope of Supply with a break-up of prices for individual items. The total Bid Price shall also cover all the Supplier's obligations mentioned in or reasonably to be inferred from the Bidding Documents in respect of Design, Supply, Transportation to site, all in accordance with the requirement of Bidding Documents. The Bidder shall complete the appropriate Price Schedules included herein, stating the Unit Price for each item & total Price.

10.02 The prices offered shall be inclusive of all costs as well as Duties, Taxes and Levies paid or payable during execution of the supply work, break up of price constituents, should be there.

10.03 Prices quoted by the Bidder shall be "Firm" and not subject to any price adjustment during the performance of the Contract. A Bid submitted with an adjustable price quotation will be treated as non-responsive and rejected.

11.0 BID CURRENCIES

Prices shall be quoted in Indian Rupees Only.

Registered Office of NESCO, WESCO & SOUTHCO

12.0 PERIOD OF VALIDITY OF BIDS

- 12.01 Bids shall remain valid for 120 days from the date of opening of the Bid.
- 12.02 Notwithstanding Clause 12.01 above, the Purchaser may solicit the Bidder's consent to an extension of the Period of Bid Validity. The request and the responses thereto shall be made in writing by Fax/e-mail.

13.0 ALTERNATIVE BIDS

Bidders shall submit Bids, which comply with the Bidding Documents. Alternative Bids will not be considered. The attention of Bidders is drawn to the provisions of Clause 22.03 & 22.04 regarding the rejection of Bids, which are not substantially responsive to the requirements of the Bidding Documents.

14.0 FORMAT AND SIGNING OF BID

- 14.01 The original Bid Form and accompanying documents (as specified in Clause 9.0), clearly marked "Original Bid", plus one copy must be received by the Purchaser at the date, time and place specified pursuant to Clauses 15.0 and 16.0. In the event of any discrepancy between the original and the copies, the original shall govern.
- 14.02 The original and copy of the Bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorized to sign on behalf of the Bidder. Such authorization shall be indicated by written Power-of-Attorney accompanying the Bid.
- 14.03 The Bid shall contain no interlineations, erasures or overwriting except as necessary to correct errors made by the Bidder, in which case such corrections shall be initialed by the person or persons signing the Bid.

D. SUBMISSION OF BIDS

15.0 SEALING AND MARKING OF BIDS

- 15.01 Bid submission: One original & one Copy (hard copies) of all the Bid Documents shall be sealed and submitted to the Purchaser before the closing time for submission of the bid.
- 15.02 The Technical Documents and the Bid Security shall be enclosed in a sealed envelope and the said envelope shall be superscribed with "Technical & Bid Security". The price bid shall be inside another sealed envelope with superscription "Price Bid". Both these envelopes shall be sealed inside another big envelope. All the envelopes should bear the Name and Address of the Bidder and marking for the Original and Copy. The envelopes should be super-scribed with "Tender Notice No. & Due date of opening".
- 15.03 The Bidder has the option of sending the Bids in person. Bids submitted by Telex/Telegram/Fax will not be accepted. No request from any Bidder to the Purchaser to collect the proposals from Airlines/Cargo Agents etc shall be entertained by the Purchaser.
- 15.04 **The Bidder, along with the bid documents has to submit two Samples along with detailed Drawings** The sample should clearly indicate (i) Name of the bidder (ii) Tender No., (iii) Group & Item Srl. No. etc. The samples shall not be returned back to the bidder. Samples submitted earlier against other tender notices shall not exempt the bidder to submit fresh samples under this tender.

Registered Office of NESCO, WESCO & SOUTHCO

16.0 DEADLINE FOR SUBMISSION OF BIDS

- 16.01 The original Bid, together with the required copies, must be received by the Purchaser at the address specified no later than 2.00 PM. on 26.08.2008
- 16.02 The Purchaser may, at its discretion, extend the deadline for the submission of Bids by amending the Bidding Documents in accordance with Clause 9.0, in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

17.0 ONE BID PER BIDDER

Each Bidder shall submit only one Bid either by itself, or as a partner in a Joint Venture. A Bidder who submits or participates in more than one Bid will cause all those Bids to be rejected.

18.0 LATE BIDS

Any Bid received by the Purchaser after the deadline for submission of Bids prescribed by the Purchaser, pursuant to Clause 16.0, will be declared "Late" and rejected and returned unopened to the Bidder.

19.0 MODIFICATIONS AND WITHDRAWAL OF BIDS

- 19.01 The Bidder is not allowed to modify or withdraw its Bid after the Bid's submission.

E. EVALUATION OF BID

20.0 PROCESS TO BE CONFIDENTIAL

Information relating to the examination, clarification, evaluation and comparison of Bids and recommendations for the award of a contract shall not be disclosed to Bidders or any other persons not officially concerned with such process. Any effort by a Bidder to influence the Purchaser's processing of Bids or award decisions may result in the rejection of the Bidder's Bid.

21.0 CLARIFICATION OF BIDS

To assist in the examination, evaluation and comparison of Bids, the Purchaser may, at its discretion, ask the Bidder for a clarification of its Bid. All responses to requests for clarification shall be in writing and no change in the price or substance of the Bid shall be sought, offered or permitted.

22.0 PRELIMINARY EXAMINATION OF BIDS / RESPONSIVENESS

- 22.01 Purchaser will examine the Bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the Bids are generally in order.
- 22.02 Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price per item that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price per item will be corrected. If there is a discrepancy between the Total Amount and the sum of the total price per item, the sum of the total price per item shall prevail and the Total Amount will be corrected.

Registered Office of NESCO, WESCO & SOUTHCO

- 22.03 Prior to the detailed evaluation, Purchaser will determine the substantial responsiveness of each Bid to the Bidding Documents including production capability and acceptable quality of the Goods offered. A substantially responsive Bid is one, which conforms to all the terms and conditions of the Bidding Documents without material deviation.
- 22.04 A Bid determined as not substantially responsive will be rejected by the Purchaser and / or the Purchaser and may not subsequently be made responsive by the Bidder by correction of the non-conformity.

23.0 EVALUATION AND COMPARISON OF BIDS

- 23.01 The evaluation of Bids shall be done based on the delivered cost competitiveness basis.
- 23.02 The evaluation of the Bids shall be a stage-wise procedure. The following stages are identified for evaluation purposes:
- In the first stage, the Bids would be subjected to a responsiveness check. The Technical Proposals and the Conditional ties of the Bidders would be evaluated.
- Subsequently, the Financial Proposals along with Supplementary Financial Proposals, if any, of Bidders with Techno-commercially Acceptable Bids shall be considered for final evaluation.
- 23.03 The Purchaser's evaluation of a Bid will take into account, in addition to the Bid price, the following factors, in the manner and to the extent indicated in this Clause:

- (a) Supply Schedule
- (b) Deviations from Bidding Documents

Bidders shall base their Bid price on the terms and conditions specified in the Bidding Documents.

The cost of all quantifiable deviations and omissions from the specification, terms and conditions specified in Bidding Documents shall be evaluated. The Purchaser will make its own assessment of the cost of any deviation for the purpose of ensuring fair comparison of Bids.

- 23.04 Any adjustments in price, which result from the above procedures, shall be added for the purposes of comparative evaluation only to arrive at an "Evaluated Bid Price". Bid Prices quoted by Bidders shall remain unaltered.

F. AWARD OF CONTRACT

24.0 CONTACTING THE PURCHASER

- 24.01 From the time of Bid opening to the time of contract award, if any Bidder wishes to contact the Purchaser on any matter related to the Bid, it should do so in writing.
- 24.02 Any effort by a Bidder to influence the Purchaser and / or in the Purchaser's decisions in respect of Bid evaluation, Bid comparison or Contract Award, will result in the rejection of the Bidder's Bid.

25.0 THE PURCHASER'S RIGHT TO ACCEPT ANY BID AND TO REJECT ANY OR ALL BIDS

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 any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for the Purchaser's action.

Registered Office of NESCO, WESCO & SOUTHCO

26.0 AWARD OF CONTRACT

The Purchaser will award the Contract to the successful Bidder whose Bid has been determined to be the lowest - evaluated responsive Bid, provided further that the Bidder has been determined to be qualified to satisfactorily perform the Contract. Purchaser reserves the right to award order other bidders in the tender, provided it is required for progress of project & provided he agrees to come to the lowest rate.

27.0 THE PURCHASER'S RIGHT TO VARY QUANTITIES

The Purchaser reserves the right to vary the quantity i.e. increase or decrease the numbers/ quantities without any change in terms and conditions during the execution of the Order.

28.0 LETTER OF INTENT/ NOTIFICATION OF AWARD

The letter of intent / Notification of Award shall be issued to the successful Bidder whose bids have been considered responsive, techno-commercially acceptable and evaluated to be the lowest (L1). The successful Bidder shall be required to furnish a letter of acceptance within 7 days of issue of the letter of intent /Notification of Award by Purchaser.

29.0 PERFORMANCE SECURITY

Within 15 days of the receipt of Notification of Award/ Letter of Intent from the Purchaser, the successful Bidder shall furnish the Performance Security in the form of Bank Guarantee for an amount of 10% (Ten percent) of the Contract Price in accordance with the General Conditions of Contract in the Performance Security Form provided in Vol.-II, Annexure - II of the Bidding Documents. Upon submission of the performance security, the bid security shall be released.

30.0 CORRUPT OR FRAUDULENT PRACTICES

30.01 The Purchaser requires that the Bidders observe the highest standard of ethics during the procurement and execution of the Project. In pursuance of this policy, the Purchaser:

(a) Defines, for the purposes of this provision, the terms set forth below as follows:

- (i) "Corrupt practice" means behavior on the part of officials in the public or private sectors by which they improperly and unlawfully enrich themselves and/or those close to them, or induce others to do so, by misusing the position in which they are placed, and it includes the offering, giving, receiving, or soliciting of anything of value to influence the action of any such official in the procurement process or in contract execution; and
- (ii) "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Purchaser, and includes collusive practice among Bidders (prior to or after Bid submission) designed to establish Bid prices at artificial non-competitive levels and to deprive the Purchaser of the benefits of free and open competition.

(b) Will reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;

(c) Will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded an contract if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, an contract.

30.02 Furthermore, Bidders shall be aware of the provision stated in the General Conditions of Contract.

SECTION - III

**(GENERAL CONDITION OF CONTRACT)
2008-2009**

Tender Notification : CSO/10/SPH Meter

Date: 05.08.2008

Registered Office of NESCO, WESCO & SOUTHCO

GENERAL CONDITION OF CONTRACT (GCC)

1.0 General Instructions

- 1.01 All the Bids shall be prepared and submitted in accordance with these instructions.
- 1.02 Bidder shall bear all costs associated with the preparation and delivery of its Bid, and the Purchaser will in no case shall be responsible or liable for these costs.
- 1.03 The Bid should be submitted by the Bidder in whose name the bid document has been issued and under no circumstances it shall be transferred/sold to any other party.
- 1.04 The Purchaser reserves the right to request for any additional information and also reserves the right to reject the proposal of any Bidder, if in the opinion of the Purchaser, the data in support of Tender requirement is incomplete.
- 1.05 The Bidder is expected to examine all instructions, forms, terms & conditions and specifications in the Bid Documents. Failure to furnish all information required in the Bid Documents or submission of a Bid not substantially responsive to the Bid Documents in every respect may result in rejection of the Bid. However, the Purchaser's decision in regard to the responsiveness and rejection of bids shall be final and binding without any obligation, financial or otherwise, on the Purchaser.

2.0 Definition of Terms

- 2.01 "Purchaser" shall mean NESCO / WESCO / SOUTHCO.
- 2.02 "Bidder" shall mean the firm who quotes against this bid document issued by the Purchaser. "Contractor" or "Seller" shall mean the successful Bidder and/or Bidders whose bid has been accepted by the Purchaser and on whom the "Letter of intent" is placed by the Purchaser and shall include his heirs, legal representatives, successors and permitted assigns wherever the context so admits.
- 2.03 "Site" shall mean the Electricity Distribution Area of the Company.
- 2.04 "Specification" shall mean collectively all the terms and stipulations contained in those portions of this bid document known as Instruction to Bidder, Bid form and other forms as per Volume - III, General Conditions of Contract, Specifications and the Amendments, Revisions, Deletions or Additions, as may be made by the Purchaser from time to time.
- 2.05 "Letter of Intent" shall mean the official notice issued by the Purchaser notifying the Contractor that his proposal has been accepted and it shall include amendments thereto, if any, issued by the Purchaser. The "Letter of Intent" issued by the Purchaser shall be binding on the "Contractor". The date of Letter of Intent shall be taken as the effective date of the commencement of contract.
- 2.06 "Purchase Order" shall mean the Purchase Order and amendments thereof and the drawings, specifications and other documents / papers referred to therein which shall constitute the "Contract".
- 2.07 "Month" shall mean the calendar month and "Day" shall mean the calendar day.
- 2.08 "Codes and Standards" shall mean all the applicable codes and standards as indicated in the Technical Specification.
- 2.09 "Offer Sheet" shall mean Bidder's firm offer submitted to Purchaser in accordance with the specification.
- 2.10 "Contract" shall mean THE "letter of Intent" issued by the Purchaser.

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- 2.11 "Contract Price" shall mean the price referred to in the "Letter of intent".
- 2.12 "Contract Period" shall mean the period during which the "Contract" shall be executed as agreed between the Contractor and the Purchaser in the Contract inclusive of extended contract period for reasons beyond the control of the Contractor and/or Purchaser due to force majeure.
- 2.13 "Goods" shall mean all items to be supplied under Purchase Order whether raw materials, processes materials, equipment, fabricated products, drawings or other documents as applicable.
- 2.14 "Store" shall mean the Purchaser store as defined elsewhere in this tender document.

3.0 Contract Documents & Priority

- 3.01 Contract Documents: The Specification, terms and conditions of the contract shall consist solely of these Tender conditions and offer sheet.
- 3.02 Priority: Should there be any discrepancy between any term hereof and any term of the Offer Sheet, the terms of these tender document shall prevail.

4.0 Scope of Work

- 4.01 The "Scope of Work" shall be on the basis of Bidder's responsibility, completely covering the obligations, responsibility and workmanship, provided in this Bid Enquiry whether implicit or explicit.
- 4.02 The Purchaser reserves the right to vary the quantity i.e increase or decrease, which shall be communicated to successful bidder during project execution.
- 4.03 All relevant drawings, data and instruction manuals and other necessary inputs shall be under the scope of contract.

5.0 General Requirements

- 5.01 The contractor shall supply, deliver best quality goods.
- 5.02 The company also reserves the right to add from the scope of work or delete from the scope of work so assigned to the Supplier, if the circumstances so warrant.
- 5.03 The contractor shall be responsible for loading and unloading of all materials with proper material handling equipment.

6.0 Quality Assurance and Inspection

- 6.01 Immediately on award of contract, the bidder shall prepare detailed quality assurance plan / test procedure identifying the various stages of manufacture, quality checks performed at each stage, raw material inspection and the Customer hold points. The document shall also furnish details of method of checking, inspection and acceptance standards / values and get the approval of Purchaser before proceeding with manufacturing. However, Purchaser shall have the right to review the inspection reports, quality checks and results of contractors in house inspection department which are not Customer hold points and the contractor shall comply with the remarks made by purchaser or his representative on such reviews with regards to further testing, rectification or rejection, etc.
- 6.02 Witness and Hold points are critical steps in manufacturing, inspection and testing where the contractor is obliged to notify the Purchaser in advance so that it may be witnessed by the Purchaser. Final inspection is a mandatory hold point. The contractor has to proceed with the work past a hold point only after clearance by purchaser or a witness waiver letter from Purchaser.

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- 6.03 The performance of waiver of QA activity by Purchaser at any stage of manufacturing does not relieve the contractor of any obligation to perform in accordance with and meet all the requirements of the procurement documents and also all the codes & reference documents mentioned in the procurement document nor shall it preclude subsequent rejection by the purchaser.
- 6.04 On completion of manufacturing the items can be dispatched only after issue of shipping release by the Purchaser.
- 6.05 All testing and inspection shall be done without any extra cost.
- 6.06 **Purchaser reserves the right to send any material out of the supply to any recognized laboratory for testing at the cost of the seller. In case the material is found not in order with the technical requirement / specification, the goods in the lot shall be rejected along with any other penalty which may be levied is to be borne by the bidder. To avoid any conflict the Seller is advised to send his representative to the stores to see that the material sent for testing is being sealed in the presence of bidder's representative.**

7.0 Packing, Packing List & Marking

7.01 Packing:

Seller shall pack or shall cause to be packed all Commodities in such a manner as shall be reasonably suitable for shipment by road or rail to Orissa Distribution Companies without any risk of damage in transit. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. The packing cases may be marked to indicate the fragile nature of contents.

- 7.02 **Packing List:** One copy of the packing list shall be enclosed in each package delivered. There shall also be enclosed in one package a master packing list identifying each individual package, which is part of the shipment. On any packaging where it is not feasible to place the packing list inside the container, all pertinent information shall be stenciled on the outside and will thus constitute a packing list.

- 7.03 **Marking:** Seller shall mark each container, box or package for easy identification of his materials as follows:

Commodity Name:
Name of the Supplier:
Net Weight:
Size:
Sign showing upper/lower side of the crate
Meter Serial Nos starting and end

8.0 Price Basis

- 8.01 Bidders shall quote individual price breakup for the quoted items.

The price shall be inclusive of all taxes, Duties and other Levies of whatsoever nature, transportation to site and vice versa and in-transit Insurances.

The above Prices shall also include unloading and proper stacking at/ from Purchaser Stores to site / stores.

9.0 Terms of Payment

The Payment shall be made as under:

- a) 100% Payment with taxes & duties on Prorata basis within 30 days of receipt of goods in our specified stores in good condition subject to detailed verification thereof and approval of guarantee & test certificate.

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- b) For claiming payment a Bank Guarantee of 10% value of the value of the contract/Purchase Order (asper clause 12.0) is to be provided which shall remain valid for a period beyond 90 days from the warranty period as per clause no. 11.0.
- c) All Payments shall be made after certification from Purchaser's Engineer Incharge. All Payments are subject to receipt of correct Documents.

10.0 Price Validity

All bids submitted shall remain valid, firm and subject to unconditional acceptance by Purchaser for 120 days post bid opening date. For awarded Contract, the prices shall remain valid and firm till contract completion.

11.0 Warranty / Guarantee

- 11.01 The meter shall be guaranteed for the period of five years from the date of commissioning or five and half years from the date of dispatch whichever is earlier. The meters found defective within the above guarantee period should be replaced/repared by the supplier free of cost within one month of receipt of intimation. If the defective meters are not replaced/repared within specified period above, the Purchaser shall recoveran equivalent amount plus 15% supervision charges from any of the bills of the supplier
- 11.02 If during the defect liability period any services performed found to be defective, these shall be promptly rectified by contract its own cost (including the cost of dismantling and reinstallation) on the instruction of Purchaser.

12.0 Contract Performance Bank Guarantee

- 12.01 Within Fifteen (15) days from the date of the Award notice, Seller shall submit a Contract Performance Bank Guarantee (PBG) in favour of Purchaser equivalent to Ten percent (10%) of the total price of the Contract (the "Performance Bank Guarantees").The PBG shall be valid for a period of 90 days beyond the warranty period as per clause no. 11.01.
- 12.02 The Performance Bank Guarantee established under Clause 12.01 shall be forfeited without recourse to the seller and payable against the presentation by Purchaser to the bank with a claim that the seller has failed to comply with any term or condition set forth in the Contract.
- 12.03 The Performance Bank Guarantee established under will be automatically and unconditionally forfeited without recourse if Purchaser in its sole discretion determines that Seller has failed to comply with any Terms or Condition set forth in the contract.
- 12.04 The Performance Bank Guarantees will be released without interest within thirty (30) days from the last date up to which the Performance Bank Guarantee has to be kept valid (as defined in Clause 12.01).

13.0 Technical information / data.

The company and the contractor, to the extent of their respective rights permitting to do so, shall exchange such technical information and data as is reasonably required by each party to perform its obligations and responsibilities. The company and the contractor agree to keep each other in confidence and to use the same degree of care as it uses with respect to its own proprietary data to prevent its disclosure to third parties of all technical and confidential information. The technical information, drawings, records and other document shall not be copied, transferred, traced or divulged and / or disclosed to third party in full / part not misused in any other form. This technical information, drawing etc. shall be returned to the company with all approved copies and duplicates. In the event of any breach of this contract, the contractor shall indemnify the company against any loss, cost of damages or claim by any party in respect of such breach.

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14.0 Effective Date of Commencement of Contract:

The date of the issue of the Letter of Intent shall be treated as the effective date of the commencement of contract.

15.0 Taxes & Duties :

All taxes, duties, levies of whatsoever nature, entry tax, octroi, turnover tax, service tax, income tax, work contract tax etc., levied by State or Central Governments or local bodies shall be to the contractor's account including any taxes, duties and levies which may be levied fresh by the Governments during currency of the Contract. The contractor shall furnish their Excise/Sales Tax registration number, PAN No. etc. in the bid documents as well as Invoice/Challans etc.

16.0 Time – The Essence of Contract

The time and the date of completion of the "Supply" as stipulated in the Letter Of Intent / Purchase order issued to the Contractor shall be deemed to be the essence of the "Contract". The Supply has to be completed not later than the aforesaid Schedule and date of completion of supply.

17.0 Liquidated Damages (LD)

17.01 If supply of items / equipments is delayed beyond the supply schedule as stipulated in purchase order/LOI, then the Contractor shall be liable to pay to the Purchaser as LD for such delay, a sum of 0.5% of the contract price for every week delay or part thereof. The LD shall be computed on the undelivered value of goods as per the delivery schedule.

17.02 The total amount of LD for delay under the contract will be subject to a maximum of five percent (5%) of the contract price

17.03 The Purchaser may, without prejudice to any method of recovery, deduct the amount for such damages from any amount due or which may become due to the Contractor or from the Performance Bank Guarantee or file a claim against the contractor.

18.0 The Laws and Jurisdiction of Contract:

18.01 The laws applicable to this Contract shall be the Laws in force in India.

18.02 All disputes arising in connection with the present Contract shall be settled amicably by mutual consultation failing which shall be finally settled as per the rules of Arbitration and Conciliation Act, 1996 at the discretion of Purchaser. The jurisdiction of arbitration shall be at Bhubaneswar, Orissa, India.

19.0 Events of Default

19.01 Events of Default. Each of the following events or occurrences shall constitute an event of default ("Event of Default") under the Contract:

- (a) Seller fails or refuses to pay any amounts due under the Contract;
- (b) Seller fails or refuses to deliver Commodities conforming to this Bid document / specifications, or fails to deliver Commodities within the period specified in P.O. or any extension thereof
- (c) Seller becomes insolvent or unable to pay its debts when due, or commits any act of bankruptcy, such as filing any petition in any bankruptcy, winding-up or reorganization proceeding, or acknowledges in writing its insolvency or inability to pay its debts; or the Seller's creditors file any petition relating to bankruptcy of Seller;
- (d) Seller otherwise fails or refuses to perform or observe any term or condition of the Contract and such failure is not remediable or, if remediable, continues for a period of 30 days after receipt by the Seller of notice of such failure from Purchaser.

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20.0 Consequences of Default.

- (a) If an Event of Default shall occur and be continuing, Purchaser may forthwith terminate the Contract by written notice.
- (b) In the event of an Event of Default, Purchaser may, without prejudice to any other right granted to it by law, or the Contract, take any or all of the following actions;
 - (i) present for payment, to the relevant bank the Performance Bank Guarantee;
 - (ii) purchase the same or similar Commodities from any third party; and/or
 - (iii) recover any losses and/or additional expenses Purchaser may incur as a result of Seller's default.

21.0 Force Majeure

21.01 The term "Force Majeure" as employed herein include, but are not limited to, acts of God or force of nature, landslide, earthquake, flood, fire, lightning, explosion, major storm (hurricane, typhoon, cyclone etc.) or major storm warning, tidal wave, shipwreck and perils of navigation, act of war (declared or undeclared) or public enemy, strike (excluding employee strikes, lockouts or other industrial disputes or action solely among employee of Contractor or its subcontractors) act or omission of sovereign states or those purporting to represent sovereign states, blockade, embargo, quarantine, public disorder, sabotage, accident or similar events beyond the control of the parties or either of them.

Force Majeure shall not include occurrences as follows:

- (a) Late delivery of materials caused by congestion at Seller's facilities or elsewhere, an oversold condition of the market, inefficiencies, or similar occurrences.
- (b) Late performance by Seller and/or Sub-Seller caused by unavailability of raw materials, supervisors or labour, inefficiencies or similar occurrences.
- (c) Mechanical breakdown of any item of Seller's or its Sub-Seller's equipment, plant or machinery.
- (d) Delays due to ordinary storm or inclement weather or
- (e) Non-conformance by Sub-Seller.

Unless the delay arises out of a Force Majeure occurrence and is beyond both Seller's and Sub-Seller's or Seller's control and an alternate acceptable source of services, equipment or material is unavailable. Additionally, Force Majeure shall not include financial distress of Seller or any Sub-Seller.

21.02 In the event of either party being rendered unable by Force Majeure to perform any obligation required to be performed by them under the Contract, the relative obligation of the party affected by such Force Majeure shall be suspended for the period during which such cause lasts. Time for performance of the relative obligation suspended by Force Majeure shall then stand extended by the period for which cause lasts.

21.03 Upon the occurrence of any Force Majeure event, the party so affected in the discharge of its obligation shall promptly, but no later than seven (7) days give written notice of such event to the other party. The affected party shall make every reasonable effort to remove or remedy the cause of such Force Majeure or mitigate its effect as quickly as possible. If such occurrence results in the suspension of all or part of the Work for a continuous period of more than, the parties shall meet and determine the measures to be taken.

21.04 Any delay or failure in performance by either party hereto shall not give rise to any claims for damages or loss of anticipated profits it, and to the extent, such delay or failure is caused by Force Majeure.

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22.0 Transfer and Sub-Letting

The Contractor shall not sublet, transfer, assign or otherwise part with the Contract or any part thereof, either directly or indirectly, without prior written permission of the Purchaser.

23.0 Third party insurance

Contractor shall take the Insurance of Equipment during Transit. Any Claim pertaining to this shall be the responsibility of the Contractor.

24.0 Recoveries

When ever under this contract any money is recoverable from and payable by the bidder, the purchaser shall be entitled to recover such sum by appropriating in part or in whole by deducting any sum due to which any time thereafter may become due from the Seller in this or any other contract. Should the sum be not sufficient to cover the full amount recoverable the bidder shall pay to the purchaser on demand the remaining balance.

25.0 Waiver

Failure to enforce any condition herein contained shall not operate as a waiver of the condition itself or any subsequent breach thereof.

26.0 Indemnification

- 26.01 Notwithstanding contrary to anything contained in this Tender, Contractor shall at his costs and risks make good any loss or damage to the property of the Purchaser and/or the other Contractor engaged by the Purchaser and/or the employees of the Purchaser and/or employees of the other Contractor engaged by the Purchaser whatsoever arising out of the negligence of the Contractor while performing the obligations under this contract.
- 26.02 Subject to this Clause 22.0 Purchaser shall, at its sole cost and expense, defend, indemnify and hold harmless Contractor and his assignees /or the employees of the Contractor whatsoever arising out of the negligence or willful act or omission or from the default of the Purchaser in the performance of the Contractor.

SECTION – IV

**Technical Specifications(TS)
2008-2009**

Tender Notification : CSO/10/SPH Meter

Date: 05.08.2008

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1.0 Scope of Supply:

- 1.01 This specification covers design, manufacture, testing, supply and delivery of LT Single Phase Two Wire static 5-30 Amps watt hour energy meters (here after referred as "meters").
- 1.02 It is not the intent to specify completely herein all the details of the design and construction of material. However the product shall conform in all respects to high standards of engineering, design and workmanship and shall be performing in continuous commercial operation in manner acceptable to the purchaser. The offered material shall be complete with all components necessary for their intended purpose. The design and components shall be deemed to be within the scope of vendor's supply irrespective of whether those are specifically brought out in this specification and/or the commercial order or not.

2.0 Applicable standards:

- 2.01 The meters shall conform (for performance and testing thereof) in all respects to the relevant Indian/International Standard Specifications with latest amendments there to unless otherwise specifically mentioned in this specification.
- 2.02. The meters should conform to requirement of IEC 1036 & IS 13779 and CBIP report – 88 for class 1.0 accuracy.
- 2.03 Unless otherwise specified elsewhere in this specification the meters shall conform to the latest version available of the standard as specified above.
- 2.04 The meter offered shall conform shock test as per IS 9000 Part 8 and IS 13010 Clause # 12.3.2 to their latest amendments.
- 2.05 These meters shall have Type Test certificates of laboratories approved by NABL such as ERDA, NPL, and CPRI etc.

3.0 Service Conditions:

- 3.01 Refer IS: 13779 for climatic conditions.
- 3.02 Meters shall be capable of maintaining required accuracy under hot, tropical and dusty climate.
- 3.03 The meter should function satisfactorily in India with high end temperature as 60°C and humidity up to 96%.
- 3.04 The overall climatic condition is moderately hot and humid tropical climate, conducive to rust and fungus growth.

4.0 General technical requirements of the meters:

4.01 Accuracy

The meter should be of class 1.0 accuracy as per IS: 13779 or IEC -1036 or better

4.02 Rated Voltage (Vref)

240 V – Phase to Neutral (Single Phase Two Wire System)

4.03 Rated Current:

Rated basic current of the meters shall be 5 Amps.

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4.04 Maximum Current:

The rated maximum current for the meter shall be 30 Amps (600% Ib) at which the meter purports to meet accuracy requirement.

4.05 Power Factor

Meters shall be suitable for measurement of energy over a power factor range from zero (lagging) through unity to zero (leading).

4.06 Power Supply Variation:

The meter should be suitable for working with following supply system variations without damage and without degradation of its metrological characteristics.

4.6.1. Voltage: -40% to +20% Vref

4.6.2. Frequency: $\pm 5\%$ (47.5 Hz to 52.5 Hz)

4.07 Power Consumption:

4.7.1. Voltage Circuit:

Less than 1 Watt & 4VA in Voltage circuit.

4.7.2. Current Circuit:

Shall not exceed 2 VA.

4.08 Starting Current:

The meter should start registering the energy at 0.2% of basic current.

4.09 Type of Service

The meter shall be suitable for use on Single phase two wire system. The connection diagram for the system shall be provided on the terminal cover.

5.0 Display:

- 5.01 The size of display shall be minimum 10 mm (Height) x 6 mm (Width).The display unit shall be Pin type built in liquid crystal display.The information shall be shown by an electronic display.
- 5.02 The register shall have minimum 6 digits. The KWH Parameters shall be displayed without decimal digits. The size of digit shall be 8mm x 5 mm (minimum).
- 5.03 The LCD shall have viewing angle min. 160 degrees.The display visibility should be sufficient to read the meter mounted at the height of 0.5 meters as well as height of 2 meters.
- 5.04 The electronic display of parameter need not be visible, when meter is not energized.

6.0 Display parameters

LCD test, KWH, MD in KW, Date & Time (Cumulative KWH will be indicated continuously by default & other parameters through push-button)

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Display Sequence for the Parameters:

6.01 Default Display:

1. Cumulative KWH (cumulative KWH to be displayed continuously without decimal)

6.02 On-demand Display:

After using pushbutton the following parameters should be displayed.

- 6.02.1 LCD test
- 6.02.2 Date
- 6.02.3 Real Time
- 6.02.4 Current MD in KW
- 6.02.5 Last month billing Date
- 6.02.6 Last month billing KWH reading
- 6.02.7 Last month billing Maximum Demand in KW
- 6.02.8 Last month billing Maximum Demand in KW occurrence Date
- 6.02.9 Last month billing Maximum Demand in KW occurrence Time
- 6.02.10 Serial No of meter.

Note: The meter display should return to Default Display mode (mentioned above) if the 'push button' is not operated for more than 10 seconds.

History: Last six month cumulative active energy (KWH).

Last six months maximum demand in KW with occurrence date and time

7.0 Test Output Device

- 7.01 The meters shall have a suitable test output device for testing of meter.
- 7.02 The blinking LED or other similar device shall be provided.
- 7.03 Test output should also work as operating indicator for meter.
- 7.04 This device should be suitable for use with sensing probe used with test benches or reference standards. It shall be possible to capture the output from distance when the meter is housed in a box.
- 7.05 The test output device should have constant pulse rate i.e. impulse / kWh and its value (meter constant) should be indelibly printed on the rating plate.

8.0 Billing data

- 8.01 Meter serial number, Date and time, KWH, MD in KW, History of KWH, & MD for last 6 months.

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8.02 All the above parameters (namely KWH, MD in KW) are meter readings.

8.03 All these data shall be accessible for reading, recording and spot billing by downloading through IR port/Opticalport on universal MRI or Laptop computers at site.

9.0 MD Registration (KW)

Meter shall store MD in every 30 min. period along with date & time. At the end of every 30 min, new MD shall be previous MD and store whichever is higher and the same shall be displayed.

10.0 Auto Reset of MD

Auto reset date for MD shall be indicated at the time of finalizing GTP and provision shall be made to change MD reset date through MRI even after installation of meter on site. Default resetting date is 00:00 hrs, 1st of every month.

11.0 TOD metering

Meter shall be capable doing TOD metering for KWH and MD in KW with 6 time zones (Programmable at site through CMRI)

12.0 Security feature

Programmable facility to restrict the access to the information recorded at different security level such as read communication, communication writes etc.

13.0 Memory

Non volatile memory independent of battery backup, memory should be retained up to 10 year in case of power failure

14.0 Software & communication compatibility

14.01 IR port/Optical port to transfer the data locally through CMRI or lap top.

14.02 The Supplier shall supply Software required for CMRI. The supplier shall also provide training for the use of software. The software should be compatible to Microsoft Windows systems (Windows 98 system).

14.03 The Supplier shall provide meter reading protocols. Vendor to jointly work with Discom IT team to develop PDS/CMRI software for meter downloading and further uploading on computer. **The vendor has to give an undertaking in this regards. Either Communication Protocol IEC 62056 /DLMS protocol is to be provided or the API for development of software is to be provided.**

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15.0 Constructional Specifications:

S.No	Parameters	Technical Requirements
15.01	Body of Meter	<p>a) Top transparent and base opaque material polycarbonate UV stabilized.</p> <p>b) Front cover & base should be ultrasonically welded. Top cover should be designed so as the internal components should not be visible. Front cover and base to be ultrasonically welded such that it shall not be opened without breaking the enclosure.</p>
15.02	Terminal Block	Made of polycarbonate Grade 500R or equivalent bakelite, brass or copper current terminals with flat-head brass screws.
15.03	Terminal cover	Transparent terminal cover with provision of sealing through sealing screw.
15.04	Diagram of connections	Diagram of external connections to be shown on terminal cover
15.05	Marking on name plates	Meter should have clearly visible, indelible and distinctly name plate marked in accordance with IS & DISCOM specifications. Prior approval of name plate design to be taken before product supply.
15.06	Meter Sealing	Supplier shall affix one Buyer seal on side of Meter body as advised and record should be forwarded to Buyer. Sealing shall be as per IS 13779 amendment and CEA guidelines.
15.07	Guarantee / Warranty	5 Years.
15.08	Insulation	A meter shall withstand an insulation test of 4 KV and impulse test at 8 KV
15.09	Resistance of heat and fire	The terminal block and Meter case shall have safety against the spread of fire. They shall not be ignited by thermal overload of live parts in contact with them as per the relevant IS 13779.

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16.0 Tamper & Anti- Fraud Detection/Evidence Features:

16.01 Tamper Conditions:

The meter shall not get affected by any remote control device & shall continue recording energy under any one or combinations of the following conditions:

Sr. No.	Tamper condition	Meter Behaviour
16.1.1	I/C & O/G Interchanged	Meter should record forward energy
16.1.2	Phase & Neutral Interchanged	Meter should record forward energy
16.1.3	I/C Neutral Disconnected, O/G Neutral & Load Connected To Earth.	Meter should record forward energy
16.1.4	I/C Neutral Disconnected, O/G Neutral Connected To Earth Through Resistor & Load Connected To Earth.	Meter should record forward energy
16.1.5	I/C Neutral connected, O/G Neutral Connected To Earth Through Resistor & Load Connected To Earth.	Meter should record forward energy
16.1.6	I/C (Phase & Neutral) Interchanged, Load Connected To Earth.	Meter should record forward energy
16.1.7	I/C & O/G (Phase or Neutral) Disconnected, Load Connected To Earth.	Meter should record forward energy

During neutral missing mode starting test will be done at 1A and accuracy shall be within 5% at 1b and above.

16.02 Influence Parameters

The meter shall work satisfactorily with guaranteed accuracy limit under the presence of the following influence quantities as per IEC: 1036 and CBIP Technical Report No: 88 with latest amendment:

- 16.2.1 External magnetic field *
- 16.2.2 Electromagnetic field induction,
- 16.2.3 Radio frequency interference,
- 16.2.4 Vibration etc,
- 16.2.5 Waveform 10% of 3rd harmonics,
- 16.2.6 Voltage variation,
- 16.2.7 Electro magnetic H.F. Field,
- 16.2.8 D.C. immunity test,

External magnetic field * test will be done as IS for AC abnormal field and at 0.5Tesla for DC magnetic field.

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17.0 Tests

- 17.01 For tests CBIP Report No.88 or IEC: 1036 or IS: 13779 shall be referred.
- 17.02 Meter shall pass the entire acceptance and routine tests as laid down in this specification.
- 17.03 In addition to the above, meters shall be tested for tamper conditions as stated in this specification.

18.0 Minimum Testing Facilities:

- 18.01 Manufacturer should possess fully computerized meter test bench system for carrying out routine and acceptance tests. In addition this facility should produce test Reports for each and every meter. Test facility of the manufacturer should be preferably NABL accredited.
- 18.02 The bidder shall submit test reports of all the meters which is generated by the test benches.
- 18.03 The bidder shall have the necessary minimum testing facilities for carrying out the following tests:-
 - 18.3.1 A.C. Voltage test
 - 18.3.2 Insulation Resistance
 - 18.3.3 Test on limits of errors
 - 18.3.4 Test on meter constant
 - 18.3.5 Test of starting condition
 - 18.3.6 Test of no-load condition
 - 18.3.7 Repeatability of error test
 - 18.3.8 Test of power consumption
 - 18.3.9 Vibration test
 - 18.3.10 Shock test
 - 18.3.11 Tamper conditions as per the specification.
 - 18.3.12 The manufacturer should have duly calibrated Standard meter of Class 0.05 accuracy.

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19.0 Component Specifications:

Ser No	Component Function	Requirement	Makes and Origin
19.01	Current Transformers/ Shunt	The Meters should be with the current transformers/ Shunt as measuring elements. The current transformer should withstand for the clauses under 16.2.8	The current transformer/ Shunt should withstand for the clauses under 16.2.8
19.02	Measurement or computing chips	The Measurement or computing chips used in the Meter should be with the Surface mount type along with the ASICs.	<u>USA</u> : Analog Devices, Cyrus Logic, Atmel, Phillips, TDK, TI <u>South Africa</u> : SAMES <u>Japan</u> : NEC
19.03	Memory chips	The memory chips should not be affected by the external parameters like sparking, high voltage spikes or electrostatic discharges.	<u>USA</u> : Atmel, National Semiconductors, Texas Instruments, Phillips, ST, <u>Japan</u> : Hitachi or Oki
19.04	Display modules	a) The display modules should be well protected from the external UV radiations. b) The display visibility should be sufficient to read the Meter mounted at height of 0.5 meter as well as at the height of 2 meters (refer 5.03 for Viewing angle). c) The construction of the modules should be such that the displayed quantity should not disturbed with the life of display (PIN Type). d) It should be trans-reflective HTN or TN or STN type industrial grade with extended temperature range.	<u>Hong Kong</u> : Genda <u>Singapore</u> : Bonafied Technologies <u>Korea</u> : Advantek <u>China</u> : Success, China display <u>Japan</u> : Hitachi, Sony

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19.05	Communication modules	Communication modules	<u>USA:</u> National Semiconductors, HP, Optonica <u>Holland / Korea:</u> Phillips <u>Japan:</u> Hitachi <u>Taiwan:</u> Ligitek
19.06	IR Port /Optical port	The mechanical construction of the port should be such to facilitate the data transfer easily.	<u>USA:</u> National Semiconductors ,HP <u>Holland / Korea:</u> Phillips <u>Japan:</u> Hitachi, <u>Taiwan:</u> Ligitek
19.07	Power Supply	The power supply should be with the capabilities as per the relevant standards. The power supply unit of the meter should not be affected in case the maximum voltage of the system appears to the terminals due to faults or due to wrong connections.	It should take care of clause 4.6 and 4.7 NO capacitive supply
19.08	Electronic components	The active & passive components should be of the surface mount type & are to be handled & soldered by the state of art assembly processes.	<u>USA:</u> National Semiconductors, Atmel, Phillips, Texas Instruments, <u>Japan:</u> Hitachi, Oki, AVX or Ricoh <u>Korea:</u> Samsung <u>Taiwan;</u> Yageo; samxon
19.09	Mechanical parts	a) The internal electrical components should be of electrolytic copper & should be protected from corrosion, rust etc. b) The other mechanical components should be protected from rust, corrosion etc. by suitable plating/painting methods.	
19.10	Battery	Lithium with guaranteed life of 10 years.	Varta, Tedirun, Sanyo or Panasonic, maxwell
19.11	RTC & Micro controller	The accuracy of RTC shall be as per relevant IEC / IS standards	<u>USA:</u> Philips, Dallas Atmel, Motorola, Microchip <u>Japan:</u> NEC or Oki
19.12	P.C.B.	Glass Epoxy, fire resistance grade FR4, with minimum thickness 1.6 mm	(BBT test is must)

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Note : The components used by manufacturer shall have “Minimum Life” more than the product “Guarantee life” as mentioned in cl 15.07. This hold true even for name plate printing, mechanical component plating, glue of stickers etc. Incase vendor want to use other make components; same shall be approved by CSO before use. In general the component life shall be twice the “Guarantee life”.

20.0 Additional Features

- 20.01 Construction: The meter shall have top cover opening detection mechanism. The top cover opening event shall be available in the form of a display in push button mode. The detection mechanism shall be available even if the meter is not energized.
- 20.02 Power ON/OFF hrs: Along with billing history parameters, meter shall log monthly ON/OFF hrs as history
- 20.03 Tamper logging: Last 10 events of magnetic tamper, single wire tamper and top cover tamper shall be logged in the memory along with occurrence and restoration event data
- 20.04 Instantaneous load in kW, current and billing power factor and high resolution kWh (at least 3 digits) on the display should be available in push button mode
- 20.05 Protection against HV spark: The meter shall continue to record energy or log the event, in case it is disturbed externally using a 35kV spark gun/ignition coil.

21.0 General Requirements:

- 21.01 On the meter name-plate:
 - 21.1.1 Meter serial number should be of 7/8 digits
 - 21.1.2 Size of the digit of the meter serial number should be minimum 4mm X 3mm.
 - 21.1.3 Bar code should be printed next to / below / above the meter serial number
 - 21.1.4 BIS registration mark (ISI mark)
- 21.02 Meter Sr. Nos. to be printed in black on the name plate, instead of embossing.
- 21.03 Buyer’s Serial Number sticker should be fixed on window glass from inside or on Meter front cover of minimum digit size 5 mm X 3 mm.
- 21.04 Supplier shall supply software suitable for energy measurement & energy spot billing through CMRI.
- 21.05 The supplier should seal the meter cover. The Buyer shall approve the method of sealing.
- 21.06 The internal potential links should be in closed position or link less Meters will be preferred and there shall not be any external link.

Registered Office of NESCO, WESCO & SOUTHCO

- 21.07 Terminal cover should be fixed on Meter before dispatch.
- 21.08 Box number, Meter serial number, type, rating should be mentioned on cases / cartons.
- 21.09 Meters shall be suitably packed with environmental friendly material in order to avoid damage or disturbance during transit or handling and to prevent in grace of moisture and dust.

22.0 Tender Sample

- 22.01 Tenderers are required to manufacture 3 meters as per the purchaser specifications and keep at their works for the purpose of sample inspection and testing. The purchaser at their option may send a team of engineers after 10 days of the opening of tender to the works of the tenderer. Prior intimation of this inspection may not be given to the bidder. 2 selected meters will be tested for various acceptance tests and conformation of the meters with this specification and/or Tender sample meters will be tested by purchaser at any other laboratory. Pre-dispatch inspection at Manufacturer's works.
- 22.02 All acceptance tests and inspection shall be carried out at the place of manufacturer unless otherwise specially agreed upon by the manufacturer and purchaser at the time of purchases.
- 22.03 The manufacturer shall offer the inspector representing the purchaser all the reasonable facilities free of charge, for inspection and testing, to satisfy him that the material is being supplied in accordance with this specification.
- 22.04 The representative/Engineer attending the above testing will carry out testing on sample meters and issue test certificate approval to the manufacturer and give clearance for dispatch.

23.0 Quality Control and Inspection:

- 23.01 The purchaser has a right to send a team of experienced engineers for assessing the capability of the firm for manufacturing of metes as per this specification.
- 23.02 The team should be given all assistance and cooperation for inspection and testing at the bidder's works.
- 23.03 The supplier has to give all facilities for carrying out the testing of meter samples. The team may draw samples from the on line production. The sample size shall be decided by the inspector representing purchaser. These samples will be tested for acceptance and testing will be done as per the specification to which each lot is manufactured. The deviation in technical specification of on line production of metes from purchaser's specification should be tabulated.
- 23.04 The method adopted to manufacture the meters as per specification should be explained to the visiting team.

24.0 Post-dispatch Inspection / Testing at Purchaser's works:

Random Sampling of received meters for post-dispatch testing shall be carried out at purchaser's Meter Testing Laboratory or at third party accredited laboratory. The sample size shall be decided unilaterally by the purchaser.

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From each lot (lot means the total number of meters received in a Store out of inspected and approved lot by purchaser's representative under one approval letter) of meters received at Stores, sample meters shall be drawn (meters received in damage condition shall not be selected as samples) and these meters will be tested by our Testing Engineer for
No load condition
Limits of error test
Starting current test
Repeatability of error test as per CBIP-88
Tamper conditions as per this specification.
If the meters failed in above random sample testing, the lot will be rejected.

25.0 Training:

The vendor shall train a group of 10 people of the purchaser free of charge at respective discoms NESCO/WESCO/SOUTHCO premises for familiarization of design, application, installation testing and commissioning, operation and maintenance of the meter and ancillary equipment.

26.0 Deviations:

The Bidders are not allowed to deviate from the principal requirements of the Specifications. However, the Bidder is required to submit with his bid in the relevant schedule a detailed list of all deviations without any ambiguity. In the absence of a deviation list in the deviation schedules, it is understood that such bid conforms to the Bid Specifications and no post-bid negotiations shall take place in this regard.

27.0 Schedules:

The bidder shall fill in the following schedules, which will be part of the offer. If the schedules are not submitted duly filled in with the offer, the offer shall be liable for rejection.

- Schedule-A: General Particulars
- Schedule-B: Guaranteed Technical Particulars
- Schedule-C: Schedule of Deviations
- Schedule-D: Schedule of deviations from standards
- Schedule-E: Schedule of deviations from supply of hardwares
- Schedule-F: Deviations from specified test requirements
- Schedule-G: Deviations from furnishing documents
- Schedule-H Bidder's experience

All deviations from the specification shall be brought out in the schedules of deviations (Schedules C, D, E, F, and G). The discrepancies, if any, between the specification and the catalogues and / or literatures submitted as part of the offer by the bidders, the same shall not be considered and representations in this regard will not be entertained.

If it is observed that there are deviations in the offer in guaranteed technical particulars other than those specified in the deviation schedules then such deviations shall be treated as deviations.
All the schedules shall be prepared by vendor and to be enclosed with the bid.

Registered Office of NESCO, WESCO & SOUTHCO

TECHNICAL SPECIFICATION FOR ENGINEERING PLASTIC METER BOX

1.0 Scope

This specification covers manufacture, testing at works and supply of Single Phase LT Meter Boxes made of insulating material intended to contain meters to be installed on wall or similar flat surface structure.

2.0 Applicable Standard

The Meter Boxes shall comply with IS : 5133 (Part-II) /IS14772

3.0 Service Conditions

Equipment to be supplied against this specification shall be suitable for satisfactory continuous operation under the following tropical conditions.

Maximum Ambient Temperature (Degree C)	60
Maximum temperature in shade (Degree C)	45
Minimum Temperature of Air in Shade (Degree C)	0° C
Relative Humidity (Percent)	10 to 100
Maximum annual rain fall (mm)	1450
Maximum Wind pressure (Kg/Sq. M.)	150
Maximum altitude above mean sea level (Metre)	1000
Isoceranic level (days per year)	50
Seismic level (Horizontal Acceleration) Moderately hot and humid tropical climate conducive to rust and fungus growth	0.3 g

4.0 Material and Construction

- 4.01 The Meter box shall be made of **Injection Moulded reinforced Fire Retardant Polypropylene**, with wall thickness as specified by GTP capable of withstanding temperatures up to 125 °C (As per Ball pressure tests clause 9.14.2 IS – 8828/96). HDT of meter box material shall be minimum 120 at 1.8MPa deg. C.
- 4.02 (i) The over all dimensions (in mm) of the box shall ensure following inner air gap.
Both left ,right and top hinge side 10mm.
Meter body top surface 10mm
Meter body bottom (wire entry)75 mm.
(All above above clearance are minimum dimension).
- (ii) The thickness of the Box & window shall be 2 mm ± 0.15 mm.
- 4.03 The Cover of meter box is made of polycarbonate transparent.

Registered Office of NESCO, WESCO & SOUTHCO

- 4.04 Meter box shall have 2 Nos. of Knock out type holes of diameter at the bottom for entry of service connection wires fixed with one glands .
- 4.05 For Meter reading , Push button is provided .
- 4.06 The box cover shall be fixed on two hinges. A total no of 2 hinges in one meter box.
- 4.07 For holding and locking the cover, U-shaped latches with one hole for riveting on the base and the other for sealing the meter box shall be provided. This clamp will also hold the cover with base. The total number of Clamps for each box will be 2 Nos.
- 4.08 Meter base supports shall be raised by about 10 mm in the box for easy of wiring.
- 4.09 Soft rubber gasket for protection on all around cover will be provided.
- 4.10 The box will be provided with 4 fixing holes of 8mm dia or with 3 fixing holes of 6mm dia , In addition sealing holes of 3 to 3.5 mm dia will be provided in U clamps.
- 4.11 Arrangement for meter reading through CMRI without opening of meter box cover shall be provided.

VOLUME- II

(Sample Forms)

2008-2009

Tender Notification : CSO/10/SPH Meter

Date: 05.08.2008

Registered Office of NESCO, WESCO & SOUTHCO

Annexure - I

BID FORM
SUPPLY OF METERS AND BOX TO NESCO

To

**Central Services Office
(NESCO, WESCO & SOUTHCO)
Plot No. 123, Sector – A, Zone – A
Mancheswar Industrial Estate
Bhubaneswar – 751 010**

Sir,

1. We understand that NESCO is desirous of procuring 'Single Phase Meter with Box' in it's licensed distribution network area in the sate of Orissa.
2. Having examined the Bidding Documents for the above named works, we the undersigned, offer to deliver the goods in full conformity with the Drawings, Conditions of Contract and specifications for the sum of..... (figures.....) or such other sums as may be determined in accordance with the terms and conditions of the contract. The above amounts are in accordance with the Price Schedules attached herewith and are made part of this bid.
3. If our Bid is accepted, we undertake to deliver the entire goods within 180 days (6 months) from the date of award of purchase order/letter of intent.
4. If our Bid is accepted, we will furnish a performance bank guarantee for an amount of 10% (Ten) percent of the total contract value for due performance of the Contract in accordance with the General Conditions of Contract.
5. We agree to abide by this Bid for a period of 120 days from the date fixed for bid opening under clause 9.0 of GCC, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
6. We declare that we have studied the provision of Indian Income Tax Law and other Indian Laws for supply of equipments/materials and the prices have been quoted accordingly.
7. Unless and until Letter of Intent is issued, this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.
8. We understand that you are not bound to accept the lowest, or any bid you may receive.
9. There is provision for Resolution of Disputes under this Contract, in accordance with the Laws and Jurisdiction of Contract, Clause 19 of GCC.

Dated this..... day of..... 20

Signature..... In the capacity of

Registered Office of NESCO, WESCO & SOUTHCO

.....duly authorized to sign for and on behalf of

(IN BLOCK CAPITALS)

Annexure - II

FORMAT FOR BID SECURITY BANK GUARANTEE

(To be issued in a Non Judicial Stamp Paper of Rs. 50/- purchased in the name of the bank)

Whereas [name of the Bidder] (hereinafter called “the Bidder”) has submitted its bid dated [date of submission of bid] for the supply of [name and/or description of the goods] (hereafter called “the Bid”).

KNOW ALL PEOPLE by these presents that WE [name of bank] at [Branch name and address], having our registered office at [address of the registered office of the bank] (hereinafter called “the Bank”), are bound unto North Eastern Electricity Company of Orissa Ltd., with it’s Registered Office at Plot 123, Sector A, Zone A, Mancheswar Industrial Estate, Bhubaneswar – 751 010, (hereinafter called “the Purchaser”) in the sum of Rsfor which payment well and truly to be made to the said Purchaser, the Bank binds itself, its successors, and assigns by these presents. Sealed with the Common Seal of the said Bank this ____ day of _____ 20____.

THE CONDITIONS of this obligation are:

- 1. If the Bidder withdraws its Bid during the period of bid validity specified by the Bidder on the Bid Form; or
- 2. If the Bidder, having been notified of the acceptance of its Bid by the Purchaser during the period of bid validity:
 - (a) fails or refuses to execute the Contract Form, if required; or
 - (b) fails or refuses to furnish the performance security, in accordance with the Instructions to Bidders/ GENERAL CONDITIONS.;

We undertake to pay to the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that is its demand the purchaser will note that amount claimed by it is due to it, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including thirty (30) days after the period of bid validity, and any demand in respect thereof should reach the Bank not later than the above date.

(signature of the bank)

Signature of the witness

Registered Office of NESCO, WESCO & SOUTHCO

PROFORMA FOR BANK GUARANTEE FOR CONTRACT PERFORMANCE

(To be issued in a Non Judicial Stamp Paper of Rs. 50/- purchased in the name of the bank)

Bank Guarantee No.....
Date.....
Ref.

To

NESCO Ltd.
Registered Office at :
Plot No. 123, Sector – A, Zone – A
Mancheswar Industrial Estate
Bhubaneswar – 751 010

Dear Sirs,

In consideration of the NESCO, here in after termed as "Purchaser" having awarded to M/s. with its Registered Office/Head Office at..... (hereinafter referred to as the 'Contractor' which expression shall unless repugnant to the context meaning thereof, include its successors administrators, executors and assigns), a Contract by issue of Letter of Award No.dated.....and the same having been acknowledged by the Contractor, resulting in a Contract bearing No. dated.....valued at.....for.....and the Contractor having agreed to provide a Contract Performance Guarantee for the faithful performance of the entire Contract equivalent to *.....% (.....percent) of the said value of the Contract to the Purchaser.

We.....(Name & Address) having its Registered Office at..... hereinafter referred to as the 'Bank', which expression shall, unless repugnant to the context or meaning thereof, include its successors, administrators, executors and assigns) do hereby Guarantee and undertake to pay the Purchaser, on demand any and all monies payable by the Contractor to the extent of.....**.....as aforesaid at any time upto(days/month/year) without any demur, reservation, contest, recourse or protest and/or without any reference to the Supplier. Any such demand made by the Purchaser on the Bank shall be conclusive and binding notwithstanding any difference between the Purchaser and the Contractor or any dispute pending before any Court, Tribunal, Arbitrator or any other authority. The Bank undertakes not to revoke this Guarantee during its currency without previous consent of the Purchaser and further agrees that the Guarantee herein contained shall continue to be enforceable till the Purchaser discharges this Guarantee.

The Purchaser shall have the fullest liberty without affecting in any way the liability of the Bank under this Guarantee, from time to time to extend the time for performance of the Contract by the Contractor. The Purchaser shall have the fullest liberty, without affecting this Guarantee, to postpone from time to time the exercise of any powers vested in them or of any right which they might have against the Contractor, and to exercise the same at any time in any manner, and either to enforce or to forbear to enforce any covenants, contained or implied, in the Contract between the Purchaser and the Contractor or any other course or remedy or security available to the Purchaser. The Bank shall not to be released of its obligations under these presents by any exercise by the Purchaser of its liberty with reference to the matters aforesaid or

Registered Office of NESCO, WESCO & SOUTHCO

any of them or by reason of any other act of forbearance or other acts of omission or commission on the part of the Purchaser or any other indulgences shown by the Purchaser or by any other matter or thing whatsoever which under law would, but for this provision have the effect of relieving the Bank.

The Bank also agrees that the Purchaser at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against Supplier and notwithstanding any security or other Guarantee the Purchaser may have in relation to the Contractor's liabilities.

Notwithstanding anything contained hereinabove our liability under this Guarantee is restricted toand it shall remain in force upto and including and shall be extended from time to time for such period (not exceeding one year),as may be desired by M/s..... on whose behalf this Guarantee has been given.

Dated this..... day of 20..... at.....

WITNESS

(Signature)..... (Signature).....

(Name)..... (Name).....

..... (Official Address)

(Designation with Bank Stamp)

Attorney as per Power of Attorney No.....

Dated.....

NOTE:

1. *This sum shall be Ten percent (10%) of the Contract price.
**The date will be ninety (90) days after the end of Warranty Period as specified in the Contract.
2. The stamp papers of appropriate value shall be purchased in the name of issuing bank.
3. Performance security is to be provided by the successful bidder in the form of a bank guarantee, which should be issued by any Scheduled Bank.

Registered Office of NESCO, WESCO & SOUTHCO

ANNEXURE-III

SPECIFICATION NO. CSO/10/SPH Meter
SCHEDULE OF QUANTITY AND PRICES

Sl. No.	Description of Materials detailed in Section – III & Section-IV	Qty. As per RFQ in No's	Purchaser's Delivery Schedule	Qty. Offered by the Tenderer	Whether Firm or Variable	Free at Destination Stores		Excise Duty	Cess on E.D	Sales Tax/ VAT	Other Taxes if any	Entry Tax	Total value per unit	Discount if Any	Remarks
						Ex-Works prices per unit including packing	Forwarding freight and insurance								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1.	Single Phase Static Energy Meters (5-30A)	NESCO-60000 nos. WESCO-75000 nos. SOUTHCO-15000 nos.	Shall commence within One month from the date of receipt of Purchase Order and complete within 6 months from the date of receipt LOA/ Confirmed PO												
2.	Single Phase Static Energy Meters	NESCO-60000 nos. WESCO-75000 nos. SOUTHCO-	Shall commence within One month from the date of												

Registered Office of NESCO, WESCO & SOUTHCO

	with Meter Box (5-30A)	15000 nos.	receipt of Purchase Order and complete within 6 months from the date of receipt LOA/ Confirmed PO												
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- Note:**
1. The Prices shall be **Firm**.
 - *2. **Separate price schedule shall be filled for NESCO/WESCO/SOUTHCO.**
 3. Columns 5 to 16 are to be filled in by the tenderer.
 4. The tenders received without breakup of Ex-works, F&I, E.D, Education Cess and CST/VAT are liable for rejection.
 5. Indicate exact percentage of taxes in figures and words.

SIGNATURE OF THE TENDERER

TECHNICAL SPECIFICATION FOR INSTALLATION OF SINGLE PHASE METER WITH BOX

1.0 SCOPE:

- 1.1 Scope of work covers installation of meter with box and replacement of existing defective energy meters with the new electronic energy meters with and without boxes.
- 1.2 It is not the intent to specify completely here in all the details of the installation of the meters. However, the work of installation shall conform in all respect to high standard skilled workmanship and shall be capable to perform in continuous commercial operation in manner acceptable to the Engineer's representative, who will interpret in totality the work of installation of the meters and he has the power to reject any work of material which, in his judgment is not in accordance therewith.

2.0 CONTRACTORS'S RESPONSIBILITIES :

2.1 Site Office

Contractor shall establish an office in the area awarded with the contact facilities and contact person in the office, for receiving and commissioning instructions from/to Engineer's representative. The office shall be established within 30 days before commencement of work.

2.2 Materials to be procured by the contractor :

The contractor shall be responsible to arrange material like PVC Tape, GI / Steel screws, washer & plastic sleeve (Gitty) for fixing of meter and meter box, any other material required for installation, which is not under the scope of materials to be provided by the Engineer's representative. The contractor shall quote the rates for the works mentioned in the bill of quantities, taking the above materials into account, or any other material contractor may think would be required to complete the work.

2.3 Coordination with the Engineer :

- (i) The contractor shall install meter area wise. All single phase meters shall be replaced in sweeping manner. The contractor shall deploy their teams accordingly.
- (ii) The contractor shall also report progress of the work on weekly basis in compiled form to the Engineer's representative, as per agreed reporting format.

Registered Office of NESCO, WESCO & SOUTHCO

- (iii) The monitoring of the progress of work and removal of bottlenecks shall be done in the meeting to be held fortnightly, between contractor & Engineer's representative. The disputes, if any arising out during the contract, shall be sorted out in this meeting.
- (iv) The contractor at all times during the progress of the contract will use its best endeavours to prevent any unlawful or disorderly conduct or behavior by or amongst its employees and personnel of its sub-contractors.

3.0 **SUPPORT FROM ENGINEER/ENGINEER'S REPRESENTATIVE.**

- (i) Engineer's representative shall depute one authorized person from staff of Electricity Test Division of respective area with the numbers of gangs as mutually agreed between Engineer's representative and contractor. This staff shall accompany the gangs and shall be responsible for issuance of meter sealing certificate at the site, after filling the complete details of old and new meters. This staff helps the gangs for guiding them about the details of the locality where the work will be going on.
- (ii) The Engineer's representative shall ensure that authorized staff of respective areas are accompanied daily at the fixed time with contractor's gangs and shall ensure providing of sending alternate arrangements for sending some other staff with the gang, in case nominated official remains absent due to some reasons.
- (iii) Engineer's representative shall provide complete list of consumers along with their addresses, service connection number, meter number etc., to the contractor along with the work order.

3.1 **Identity Cards :**

The Engineer's representative shall arrange to issue a photo identity card to contractor's employee, so that the contractor's employees could work at the site along with the Identity card. The contractor shall provide a complete list of all the persons along with two photographs, to the Engineer's representative, 15 days before the start of work, for the purpose of issuance of Identity Card.

4.0 **WORKING METHODOLOGY :**

Detailed procedure and methods of every items of work mentioned in the scope of work is described in the following clauses. Contractor shall follow these in consultation with Engineer's representative.

4.1 **Installation of electronic meter along with meter box :**

The work of Installation electronic meter consists of following steps –

- (a) **Issuance of meters and meter boxes:**

Registered Office of NESCO, WESCO & SOUTHCO

The Engineer's representative will issue the electronic meters along with the meter boxes. These materials shall be issued at the respective store of Electricity Test Division. Meters issued from the respective test divisions shall be installed only in the area of respective test divisions. The contractor will nominate the persons for receiving the meters and meter boxes and inform about them in writing, to the Engineer's representative. Engineer's representative will issue a certificate of authorization to the persons authorized for receiving the material.

(b) Transportation of man and material to the site:

The contractor shall arrange to transport all the material, received as above to the site where installation work is to be done along with the persons and tool kit so as to make them fully independent to work at the site. The contractor has to arrange the mode of transport for this works as per the bid requirement of key and critical equipment. It will be complete responsibility of the contractor for making availability of the vehicles, drivers, fact etc. The contractor shall be responsible for making alternate arrangement due to non-availability of any of the above viz. driver, vehicle etc.

(c) Removal of old meter and box & installation of new meter and box:

At consumer's premises, the contractor's person shall first check the existing meter and match with allotted list for replacement after that disconnect the line side and load side cables from the existing old meter. After disconnection of cables, the old meter shall be removed from the existing old meter box or from the wooden board after removal of meter, the new meter box shall be installed on it. For fixing the new meter box, four number holes (as per drawing of the box) shall be drilled on the wall or the wooden board, as the case may be. After preparation of holes, plastic sockets (gullies) shall be grouted in the holes and new meter box shall be fixed in position with the help of steel screws.

After fixing of the meter box, electronic meter shall be fixed at the appropriate place in the box with the help of steel screws. Finally the cable connections shall be done in proper phase sequence as per the connection diagram of the meter. Cable ends must be tightened so as to ensure that no connection remains loose at the meter terminal block.

After completion of above steps of work, meter should be checked for working conditions. If the meter installed is not working i.e., there is no change in meter reading; another meter shall be installed and checked in the manner described above. The non-functioning meters shall be returned to the issuing authority with proper report, specifying the meter number, the date of issue and the defect/ malfunction appearing in the meter. If the meter installed is found working, the meter terminal blocks and meter box shall be sealed with the seals issued to the contractor. The sealing method and the type and number of seals shall be done as per the written instruction of Engineer's representative. The required seals will be provided by Utility.

Finally a sealing certificate shall be filled and issued to the consumer at site, by the contractor's supervisor/staff of Engineer's representative clearly mentioning all the details of old as well as new meter in the prescribed format of sealing certificate. This certificate shall be signed by Engineer's representative, contractor's person and consumer. The contractor shall keep a separate record of

Registered Office of NESCO, WESCO & SOUTHCO

meters replaced and installed along with seal numbers in a format developed by contractor in consultation with the Engineer's representative. This data shall be stored in contractor's computer in MS Excel files or Oracle database file or as mutually agreed between the contractor and engineer. The contractor shall provide and update above files (prints and soft copies) to Engineer/ Engineer's representative as demanded by them.

(d) **Site Condition Report:**

The site condition of the selected consumers may be improper because of (1) no. space for installation of new meter boxes, (2) disputed site, (3) consumer's objection (4) non availability of power/ shutdown etc., due to which installation of meter may not be possible also due to defective/ undersized cable/ jointed cables, needing replacement. A separate site reports shall therefore be made jointly with Engineer's representative and submitted to the consumers along with its shortcomings.

(e) **The scope of work does not cover supply & laying of service cable.** If cable found to be short in length/cut/ joint, a separate report shall be made & report to Engineer's representative.

(f) Necessary work permit shall be issued to the contractor for the installation activity.

Any other details shall be finalized as per the mutual discussion during post bidding stage.

Registered Office of NESCO, WESCO & SOUTHCO

SPECIFICATION NO. CSO/10/SPH Meter SCHEDULE OF QUANTITY AND PRICES FOR INSTALLATION

Sl. No.	Description of Work detailed in Annexure-IV	Qty. As per RFQ in No's	Qty. Offered by the Tenderer	Prices per unit	Service Tax	Other Taxes if any	Total value per unit	Discount if Any	Remarks
1	2	3	4	5	6	7	8	9	10
1.	Installation Single Phase Static Energy Meters (5-30A)	NESCO- 60000 nos. WESCO- 75000 nos. SOUTHCO- 15000 nos.							
2.	Installation of Single Phase Static Energy Meters with Meter Box (5-30A)	NESCO- 60000 nos. WESCO- 75000 nos. SOUTHCO- 15000 nos.							

- Note:**
1. The Prices shall be Firm.
 - *2. **Separate price schedule shall be filled for NESCO/WESCO/SOUTHCO.**
 - 3 Columns 4 to 10 are to be filled in by the tenderer.
 4. Indicate exact percentage of taxes in figures and words.

SIGNATURE OF THE TENDERER