WESCO UTILITY

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TENDER SPECIFICATION FOR PROCUREMENT

OF DISTRIBUTION TRANSFORMERS

(FOR DEPOSIT PROGRAMME)

TENDER NOTICE No.: WESCO Utility/ DEPOSIT/ 25 KVA DTR /03 Date: 06.07.2015

1) DATE OF OPENING OF TENDER : 28.07.2015
2) TIME : 03:00PM
3) PLACE : WESCO Utility Head Office, Burla
WESCO UTILITY  
Headquarter: At/PO: Burla, Dist: Sambalpur - 768017, Odisha  
Phone: (0663)2431297, Facsimile: (0663) 2432115  
E-Mail: wesco@wescoorissa.com, Web site: www.wescoorissa.com

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TENDER NOTICE NO: WESCO Utility/ DEPOSIT/ 25 KVA DTR /03 Date: 06.07.2015

Material Name: 25 KVA 11/ 0.433 KV Distribution Transformers

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~ 2 ~
TENDER NOTICE NO: WESCO Utility/ DEPOSIT/ 25 KVA DTR /03 Date: 06.07.2015

For and on behalf of the WESCO UTILITY, Burla the undersigned invites sealed tenders in duplicate on two part bidding system from the eligible bidders, who comply to the terms and conditions for the supply of following materials superscribing the Tender Specification No., Name of the material & date of opening (as mentioned in the specifications).

The tender papers can be had from the undersigned at the above address on payment of the cost of Tender Paper indicated below in shape of Account Payee bank Draft drawn on any Public Sector Bank in favour of the Western Electricity Supply Company of Odisha Ltd. payable at Burla/Sambalpur. The cost of tender paper is non-refundable.

SCHEDULE OF MATERIALS TENDERED:

<table>
<thead>
<tr>
<th>SL. NO.</th>
<th>NAME OF MATERIALS</th>
<th>RATING</th>
<th>UNIT</th>
<th>QUANTITY</th>
<th>COST OF TENDER PAPER (Rs.)</th>
<th>EMD (In Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>25 KVA Distribution Transformer</td>
<td>11/0.433 KV 25 KVA DTR (3 Star Rated)</td>
<td>No.</td>
<td>50</td>
<td>10,000.00 + 5%VAT = 10,500.00</td>
<td>23,865 /-</td>
</tr>
</tbody>
</table>

TIME SCHEDULES:

1. Last Date & Time for selling of tender papers 27.07.2015 AT 5:00 PM
2. Last Date & Time for submission of Bid Document 28.07.2015 AT 2:00 PM
3. Date & Time for opening of Technical Bid 28.07.2015 AT 3:00 PM

The intending bidders can also download the tender document from our website www.wescoodisha.com. However the bidder has to furnish a Account Payee Bank Draft drawn on any Public sector Bank in favour of the Western Electricity Supply Company of Odisha Ltd. payable at Burla/Sambalpur for the cost of the Tender Paper indicated above, along with his bid, failing of which the bid will be rejected outright. In the event of any specified date for the sale, submission or opening of bids being declared as holiday for WESCO Utility the bids will be sold / received / opened up at the appointed time on the next working day. WESCO Utility also reserves the right to accept or reject any or all tenders without assigning any reason thereof, if the situation so warrants.

For detail Tender Specification & Terms and Conditions, please visit our website www.wescoodisha.com.

(sd/-)

GM (Purchase)
SECTION – I

INVITATION FOR BIDS (IFB)
INVITATION FOR BIDS (IFB)  
FOR SUPPLY OF  
11/0.433 KV 25 KVA Distribution Transformers  
( COMPETITIVE BIDDING )

TENDER NOTICE NO: WESCO Utility/ DEPOSIT/ 25 KVA DTR /03 Date: 06.07.2015

SECTION – I

1.0 For and on behalf of the WESCO Utility, the undersigned invites bids under two part bidding system in sealed cover in duplicate duly superscribed with tender Notice no........, and date of opening............ from the reputed manufacturers only for design, manufacture, supply, type testing, inspection, loading at factory, transportation to & unloading at site / stores including guaranteed obligation for supply of 11/0.433 KV Distribution Transformers.

2.0 Submission of the Bids:
2.1 The Bidders are required to submit a detailed and comprehensive bid, consisting of Technical and Commercial Proposal and conditions / schedule of non-compliance, if any. The submission of the Bids shall be in the manner specified in the instruction to Bidders. The due date of submission shall be 28.07.2015 up-to 2.00 PM.

3.0 WESCO Utility will not be responsible for any costs or expenses incurred by bidders in connection with the preparation and delivery of bids.
3.1 WESCO Utility reserves the right to cancel, postpone, withdraw the invitation for Bids without assigning any reason thereof and shall bear no liability whatsoever consequent upon such a decision if the situation so warrants.

4.0 E.M.D & TIME SCHEDULES:

<table>
<thead>
<tr>
<th>Description</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Last date for sale of tender papers</td>
<td>27.07.2015 up to 5:00 PM</td>
</tr>
<tr>
<td>Last Date for Submission of Tenders</td>
<td>28.07.2015 up to 2:00 PM</td>
</tr>
<tr>
<td>Opening of Technical Bid</td>
<td>28.07.2015 up to 3:00 PM</td>
</tr>
<tr>
<td>Completion of the delivery</td>
<td>60 days from the date of issue of Purchase Order as per delivery schedule</td>
</tr>
</tbody>
</table>
Cost of Tender Paper (Non Refundable) | Rs. 10,500.00 (Rupees Ten Thousand Five Hundred only) in shape of Cash/ Account Payee demand draft issued in favour of the Western Electricity Supply Company of Odisha Ltd. payable at Burla/Sambalpur only.

NB: Cost of Tender shall be fully exempt for the local SSI Units located in the State of Odisha having valid registration in D.I.C/NSIC on the date of submission of the tender. It is also applicable for Consortium of SSI

Amount of E.M.D. Payable | Rs. 23,865.00 (Rupees Twenty Three Thousand Eight Hundred Sixty Five only) in shape of account payee demand draft / Bank Guarantee in favour of the “Western Electricity Supply Company of Odisha Ltd.”. For details, please refer clause no. 9.2 of ITB (Page-12)

NOTE: Local SSI Units located in the state of Odisha having valid registration in D.I.C/NSIC on the date of submission the tender shall be allowed to deposit 25% of the EMD amount as prescribed above. It is also applicable for Consortium of SSI Units.

NB: Bidders are free to quote for single or multiple items. But EMD is to be furnished for each item separately.

5.0 SCHEDULE OF REQUIREMENTS & DELIVERY:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Description of Material</th>
<th>Units</th>
<th>Quantity</th>
<th>Delivery quantity from the date of Issue of the Purchase Order</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>11/0.433 KV 25 KVA DTR</td>
<td>No.</td>
<td>50</td>
<td>Within 60 Days (Consignment-I)</td>
</tr>
</tbody>
</table>

6.0 QUALIFICATION OF BIDDERS:

6.1 Criteria for qualification:

6.1.1 Technical:

a) The bidder should be a manufacturer of Distribution Transformers (11/0.433 KV) of above ratings for which he submits his offer.

b) The bidder has to quote at least 50% of the tendered quantity of the material covered under this notification. The bidder should have supplied Distribution Transformers of same size or higher sizes/voltage rating minimum 50% of the quoted/offered quantity during any one of the financial year out of the immediate past three financial years. Bidders shall submit self attested copies of P.O.’s executed...
successfully for the relevant years and abstract thereof to prove the quantity as supplied.

c) The bid shall be accompanied by user’s certificate from any Distribution Utility/ Reputed Private Organization/ State Govt./ Central Govt. or their undertaking(s) in support of satisfactory performance of their above materials supplied earlier to them.

d) The offered materials should have been type-tested at CPRI/NABL accredited laboratory. The bid shall accompanying with type-test reports conducted at Central Power Research Institute / NABL accredited laboratory for the offered materials conducted within five years before the date of opening of the tender. **Bids not accompanied with type test reports conducted within five years from the date of opening of tender & the drawings of the offered Materials dully approved by the Type Testing Agency shall not be considered for evaluation.**

e) **WESCO Utility** reserves the right to waive minor deviation, if they do not materially effect the capacity of the bidder to perform the contract.

f) The bidders who have earlier failed to execute the Purchase Order(s) of **WESCO Utility** and or blacklisted by the **WESCO Utility** /any of the distribution Utility shall not be eligible to participate in this tender.

6.1.2 Financial:
The minimum average annual turnover of the intending bidder should not be less than following amounts in any financial year during best three years out of immediate past 5 financial years.

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Description of Materials</th>
<th>Minimum Qualifying requirement for average annual turnover in the best three years</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>11/0.433 KV 25KVA DTR</td>
<td>0.48 Cr.</td>
</tr>
</tbody>
</table>

**NB: Bidders offering multiple items must meet the sum of minimum turn over requirements of above items as indicated above. Accordingly bidders must furnish self attested audited Annual Accounts of past 3 best financial year/5 years to establish their Turnover requirement.**

6.1.3 **Participation of SSI Units by forming a CONSORTIUM:**
Two or more SSI Units having been manufacturer of tender items as per this tender specification may form a Consortium among themselves and apply against this specification, provided they fulfill the following eligible criteria.

a) They should have legally valid consortium agreement as per the prescribed format for the purpose of participation in the bidding process. The total no of a consortium shall be limited to four members.
b) All members of the Consortium should be the eligible manufacturer(s) of the materials / equipments tendered.

c) Each member should have valid statutory license to use ISI Mark/BEE three star or more level Certification/Type tested report from NABL accredited laboratory conducted within last five years for the tendered materials/equipments as applicable for the tender.

d) Consortium as a whole shall meet the qualifying norms specified in the tender, they participate.

e) The lead member of the Consortium should meet at least 50% of the qualifying norms in respect of the supply experience.

f) Besides the lead member, other member(s) of the Consortium should meet at least 15% of the qualifying norms in respect of the supply experience.

g) All the Consortium member(s) shall authorize the lead partner by submitting a power of Attorney as per the prescribed format duly signed by the authorized signatories. The lead partner shall be authorized to receive instructions for and on behalf of all partners of the Consortium and entire execution of the contract.

h) The Consortium and its members shall be jointly and severally responsible and be held liable for the purpose of guaranteed obligation and any other matter as required under the contract.

i) Any member of the Consortium member(s) shall not be eligible either in an individual capacity or part of any other consortium to participate in the tender, where the said consortium participates.

j) Separate Purchase Orders will be placed to each members of the Consortium considering their offer quantity and ability to supply.

k) The prescribed formats for Consortium Agreement (Annexure – VII) and Power of Attorney (Annexure – VIII) are provided in the tender specification as enclosures.

6.1.4 Documentation:

6.1.4.1 Bidder shall furnish copies of original documents defining the constitution or legal status, place of registration and principal place of business namely of Memorandum and Article of Association.

6.1.4.2 Written power of attorney / Board Resolution of the authorized signatory of the bid.
6.1.4.3 Bidders shall submit their audited financial reports for best three financial years out of last five years. In case the Bidder is in existence for less than 5 years the audited financial report/s from the date of its incorporation should be furnished.

6.1.4.4 Copies of Purchase order successfully executed, Users Performance Certificate, type Test Report if any.

7.0 All correspondence with regard to the above shall be made to the following address:

**WESCO UTILITY**
Headquarter: At/PO: Burla, Dist: Sambalpur - 768017, Odisha
Phone: (0663)2431297, Facsimile: (0663) 2432115
E-Mail: wesco@wescoorissa.com, Web site: www.wescoorissa.com

**DEPARTMENT OF PURCHASE & STORE**
Phone: (0663)2432804, Facsimile: (0663) 2432804
E-Mail: purchase@wescoorissa.com
SECTION – II

INSTRUCTION TO BIDDERS (ITB)
SECTION – II

INSTRUCTION TO BIDDERS (ITB)

1.0 SOURCES OF FUNDS:
1.1 WESCO Utility hereinafter referred to as the “Purchaser” is desirous of procurement of materials for strengthening and improvement of distribution network under WESCO Utility from the funds available under DEPOSIT head.

2.0 SCOPE OF WORK:
2.1 The scope of work in brief shall include design, manufacture, type testing, inspection, supply, loading at factory, transportation to site / stores, unloading at site/stores including guaranteed obligation of complete supply of materials in conformity to the technical specification enclosed herewith in Section – IV.

3.0 DISCLAIMER:
3.1 This Document includes statements, which reflect various assumptions, which may or may not be correct. Each Bidder 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.
3.2 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 / provision of Services for the Project.
3.3 Though adequate care has been taken while issuing the Bid document, the Bidder should satisfy himself that documents are complete in all respects. Intimation of any discrepancy/ doubt shall be sent to the Purchaser address for speedy response.
3.4 This document and the information contained herein are Strictly Confidential and are for use of only the person (s) to whom it is issued/ downloaded from the website. 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:
4.1 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.

5.0 BIDDING DOCUMENTS:
5.1 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:
a) Invitation of Bids (IFB) : Section - I
b) Instruction to Bidders (ITB) : Section - II
c) General Terms and Conditions of Contract (GTCC) : Section - III
d) Technical Specification : Section - IV
e) List of Annexure : Section – V

5.2 The Bidder is expected to examine the Bidding Documents, including all Instructions, Forms, Terms and specifications. Failure to furnish all information required in 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:
6.1 At any time prior to the deadline for submission of Bids, the Purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the Bidding Documents by way of issuing an addendum.

6.2 The Amendment/ Addendum shall be part of the Bidding Documents, pursuant to Clause 6.1, and it will be binding on the bidders.

6.3 In order to afford prospective Bidders reasonable time in which to take the amendment into account in preparing of their Bids, the Purchaser may, at its discretion, extend the deadline for the submission 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 the 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:
8.1 The Bid prepared and submitted by the Bidder shall comprise of two parts i.e. Part-I (Techno-Commercial Bid), & Part-II (Price Bid):
(A) The Part-I (Techno-Commercial Bid) must contain the following documents:
(a) Bid Document signed by the bidder in every page, all other Schedules / Formats enclosed in the Bid-Document (i.e. Annexure-I, II, IV, V, VI (A), VI (B), VII, VIII, IX & X) duly filled in & signed by the bidder with seal in a separate envelop superscribed as Techno Commercial Bid. Bids containing information in formats other than our prescribed formats shall not be acceptable and may make the bid non-responsive.

(b) Requisite Earnest Money Deposit (E.M.D) as per clause No. 4 of Section –I, IFB in a separate envelop superscribed as “EMD” failing which the bid may be treated non-responsive.

i) Self attested copies of Purchase Orders executed in last 3 Years.
ii) Self attested copies of Performance Certificates / Successful contract completion Certificates from the buyers preferably from Electricity Distribution Utilities / Government Organizations.

iii) Type Test Reports from CPRI or NABL Accredited Testing Laboratory for the offered equipments along with the copies of drawings duly approved by the

iv) Type Testing Agency for the tests conducted not before 5 years from the date of opening of Bids.

v) Copies of Profit & Loss Accounts & Audited Balance sheet indicating Turnover for best 3 financial years out of last 5 financial years.

(c) Power of Attorney / Board resolution indicating that the person(s) signing the Bid have the authority to sign the Bid and as such the Bid is binding upon the Bidder during the full period of its validity, in accordance with clause 14.

(d) Requisite Cost of Tender Document as per clause 4 of Section –I, IFB in shape of account payee Bank draft from a Public Sector Bank in favour of “The Western Electricity Supply Company of Odisha Ltd.” Payable at Burla/Sambalpur is to be enclosed along with the Bid, if the document is downloaded from our web-site. Or else, the Original Copy of Money Receipt for the payment made towards the cost of Tender Document is to be enclosed along with Bid, if the document is directly purchased from our Cash Counter at our Regd. Office.

(B) Part – II (Price Bid):
The Price Bid shall contain the price schedules as per the prescribed format enclosed as (Annexure-V) duly filled in & signed by the bidder with seal. 
(This shall be submitted in a double sealed envelope separately duly superscribed as “Price Bid”).

9.0 SUBMISSION OF BID:
9.1 The Bidder shall complete and submit the Bid Document in duplicate enclosing all documents at clause “8” above in two sealed envelopes for Original & Duplicate separately, superscribing the Tender Notice No………., Date …., Date of Opening……… & Description of Material.

9.2 E.M.D:
9.2.1 The bidder shall submit E.M.D as a part of the bid in the prescribed manner for the amount mentioned in Clause No.4 of Section –I.

9.2.2 The E.M.D is required to protect the Purchaser against the risk of bidder’s conduct, which would warrant the security’s forfeiture.

9.2.3 The E.M.D shall be in the following form:

A/C payee demand draft in favour of Western Electricity Supply Company of Odisha Ltd. issued by a Public Sector Bank payable at Burla/Sambalpur.
Bank Guarantee in favour of “Western Electricity Supply Company of Odisha Ltd.” issued by a Public sector bank encashable at local branch at Burla/Sambalpur only. The BG shall be strictly as per the format enclosed at Section – V, Annexure – X.

NB: In case of any deficiency such as the ownership of the security bond (other than the issuing bank), deviation from the approved format, absence of signature of witness etc. found in the EMD Bank Guarantee, the same shall be liable for rejection upfront. The bidder will not be given any chance to rectify the same.

9.2.4 Unsuccessful bidder’s E.M.D shall be refunded back as promptly as possible, but not later than thirty (30) days after the expiry of the period of bid validity. The successful bidder’s E.M.D shall be discharged upon furnishing of the performance security.

9.2.5 The E.M.D may be forfeited due to following reasons:
1) If the bidder withdraws bid during the period of bid validity specified by the bidder in the bid form.
2) In case the successful bidder fails to sign the contract in specified time and / or fails to submit the requisite performance Bank guarantee.
3) In case of failure to supply the materials / equipment during the contractual delivery Period.

10.0 BID PRICE:
10.1 Bidders have to quote for the entire quantity of materials/equipment covered under this specification strictly as per the enclosed format in Section – V. 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, testing, inspection, Transportation to site/stores, all in accordance with the requirement of Tender Documents. The Bidder shall complete the appropriate Price Schedules enclosed herein at Annexure – V, stating the Unit Price for each item, all other livable taxes & duties, freight & insurance separately and thereby arriving at the total amount.

10.2 In case there is any increase in the number of units as compared to those mentioned in the IFB, the Contract Price shall be subject to increase proportionately on pro-rata basis.

10.3 The Price offered shall be inclusive of all costs as well as Duties, Taxes and Levies paid or payable during implementation of the contract. If the Bidder is exempted from Excise duties, Concession in the Sales tax, levy of entry tax, same should be clearly mentioned supported with documentary evidence.

10.4 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 variable Price or an adjustable price clause shall be treated as non-responsive and rejected out rightly.
11.0 CONTRACT PRICE:
11.1 The Ex-Works Prices quoted for the Contract shall remain FIRM as per the above Parameters and Purchaser shall not compensate Bidder for any variations. However any variation in the taxes & duties within the schedule date of delivery shall be borne by the Purchaser, else the same shall be borne by the bidder.

11.2 In case the Purchaser, revise the scope of works, bidders shall be compensated based on the Unit Rate (Ex-Works) agreed upon before Order placement or as per mutually acceptable rates.

12.0 BID CURRENCIES:
12.1 Prices shall be quoted in Indian Rupees Only.

13.0 DOCUMENTS ESTABLISHING CONFORMITY TO THE BIDDING DOCUMENTS:
13.1 The bidder shall confirm by documentary evidence of the Good’s conformity to the Bidding Documents by submitting materials/equipment data sheets.

14.0 PERIOD OF VALIDITY OF BIDS:
14.1 Bids shall remain valid for 180 days from the date of opening of commercial Bids.
14.2 Notwithstanding Clause 14.1 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 or by Fax.

15.0 ALTERNATIVE BIDS:
15.1 Bidders shall submit Bids, which comply with the Tender Documents. Alternative bids shall not be considered for evaluation. However, if the bidder(s) prefer to submit the revised price bid before the due date of opening of the price bid, the revised price bid shall be considered for evaluation.

16.0 FORMAT AND SIGNING OF BID:
16.1 The original Bid Form and accompanying documents (as specified in Clause 9), clearly marked “Original Bid”, plus one copy of the Techno-Commercial Proposal must be received by the Purchaser at the date, time and place specified pursuant to Clauses 17 and 18.

The Price Bid in Original should be submitted in a separate sealed envelope marked as “Price Bid”. In the event of any discrepancy between the original and the copies, the original shall govern.

16.2 The original and the duplicate copy of the Bid shall be typed or written legibly 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/Board Resolution accompanying the Bid.
16.3 The Bid shall contain no interlineations, erasures, 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.

**17.0 SEALING AND MARKING OF BIDS:**

17.1 Bid submission: One Original, One Copy of all the Bid Documents shall be sealed and submitted to the Purchaser before the last date & time for submission of the bid.

17.2 The Bid proposal should be divided into two parts and should be submitted in two separate sealed envelopes, addressed to Purchaser. All the envelopes should bear the Name and Address of the Bidder and marking is made for the Original and the duplicate copy. The envelopes should be superscribed with the title of its contents, as follows:

i) **TECHNO-COMMERCIAL BID ENVELOPE:** Shall contain the Bid Security (EMD), Cost of Tender Document, all supporting documents for qualifying requirement of this tender, duly filled in formats Abstract of General Terms & Conditions, Declaration Form, Technical Data Schedule, Technical & Commercial Deviations formats, Un-quoted blank Price Schedule etc. enclosed at Annexure I, II, IV, V, VI (A), VI (B), VII, VIII, IX & X at Section-V of this document.

ii) **PRICE BID ENVELOPE:** Shall contain the Price schedule duly filled in & signed as per Annexure –V at Section-V of this document. (This shall be submitted in a double sealed envelope separately.)

17.3 The inner and outer envelopes shall:
   a) Be addressed to the **Purchaser** at the following address:

   **General Manager Purchase**  
   **DEPARTMENT OF PURCHASE & STORE**  
   **WESCO Utility, Burla**  
   **Phone:** (0663)2432804, **Facsimile:** (0663) 2432804  
   **E-Mail:** purchase@wescoorissa.com

   Bear the Project name as: **“Design, Manufacture, Testing, Inspection and Supply of Distribution Transformers as per Schedule of Requirement in Section-I)” – Tender Notice No.: WESCO Utility/ DEPOSIT/ 25 KVA DTR /03 Date: 06.07.2015.**

   In addition to the information required in sub clause (a) and (b) above, the outer envelope shall indicate the name and address of the Bidder to enable the Bid to be returned unopened in case it is declared “Late” pursuant to Clause 20.

17.4 The Bidders have the option of sending the Bids by Post/ Courier services or 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/Courier Agents etc. shall
be entertained by the Purchaser.

18.0 DEADLINE FOR SUBMISSION OF BIDS:
18.1 The original Bid together with required copies, must be received by the Purchaser at the address specified in Clause 17.3 not later than **14.00 Hrs. (IST)** on/before the due date as indicated in the invitation for bids.

18.2 The Purchaser may, at its discretion, extend the deadline for the submission of Bids by amending the Bidding Documents, 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.

19.0 ONE BID PER BIDDER:
19.1 Each Bidder shall submit only one Bid either by himself, or as a partner in a Joint Venture/Consortium. A Bidder who submits or participates in more than one Bid for the same item, either individually or jointly, will cause all those Bids to be rejected out rightly.

20.0 LATE BIDS:
20.1 Any Bid received by the Purchaser after the deadline for submission of Bids prescribed by the Purchaser, pursuant to Clause 18, will be declared “Late” and will be rejected out rightly and will be returned unopened to the Bidder.

21.0 MODIFICATION AND WITHDRAWAL OF BIDS:
21.1 The Bidder may modify or withdraw his Bid after the Bid’s submission, provided that written notice of the modification or withdrawal is received by the Purchaser prior to the deadline prescribed for submission of Bids.
21.2 The Bidder’s modification or withdrawal notice shall be prepared, sealed, marked and dispatched in accordance with the provisions of Clause 17 & 18. A withdrawal notice may be sent by fax but must be followed by an original signed confirmation copy.
21.3 No Bid can be modified subsequent to the deadline for submission of Bids.
21.4 No Bid can be withdrawn in the interval between the deadline for submission of Bids and the expiry of the period of Bid validity specified by the Bidder on the Bid form as per clause 14.

22.0 EVALUATION OF BID:
22.1 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.
23.0 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.

24.0 PRELIMINARY EXAMINATION OF BIDS / RESPONSIVENESS:
24.1 Purchaser will examine the Bids to determine whether they are complete, whether
any computational error have been made, whether required sureties have been furnished,
whether the documents have been properly signed, and whether the Bids are generally in
order.

24.2 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.

24.3 Prior to the detailed evaluation, pursuant to Clause 25, the Purchaser will determine
the substantial responsiveness of each Bid to the Bidding Documents including production
capability and acceptable quality of the materials offered, pursuant to Clause 13.
Substantially responsive Bid is one, which conforms to all the terms and conditions of the
Bidding Documents without material deviation.

24.4 A Bid determined as not substantially responsive will be rejected by the Purchaser and
will not subsequently allowed to be made responsive by the Bidder by correction of the
non – conformity.

25.0 EVALUATION AND COMPARISON OF BIDS:
25.1 The evaluation of Bids shall be done basing on the delivered cost competitiveness
basis for each item separately.

25.2 The evaluation of the Bids shall be a stage-wise procedure. The following stages are
identified for evaluation purposes:

25.3 In the first stage, the Bids would be subjected to a responsiveness check as detailed in
the clause 24. The Technical Proposals and the Commercial terms & conditions of the
Bidders would be evaluated and discussed as per clause 26 of this document.

25.4 Subsequently, the Financial Proposals along with Supplementary Financial Proposals, if
any, of Bidders with Techno-commercially Acceptable Bids submitted prior to final
evaluation shall be considered.
25.5 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) Delivery Schedule.
b) Deviations from Bidding Documents as mentioned in Non-Compliance Schedule.
c) Past performance and capability to execute the contract.
d) Type test reports from CPRI/ NABL Accredited Laboratories.

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 his own assessment of the cost of any deviation for the purpose of ensuring fair comparison of Bids.

26.0 AWARD OF CONTRACT:
In normal circumstances the Purchaser will generally 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 perform the Contract satisfactorily. If the lowest evaluated prices (L1) of more than one responsive bidder(s) are same, then in such event the tender quantity shall be awarded in equal proportion.

However, for timely completion of the project, the purchaser may distribute the order among the bidders (maximum three) at L1 rate. In case of distributing between two bidders, the ratio shall be 70% (L1): 30% (L2) or the quantity offered/quoted by the bidders whichever is less. Similarly in case of distributing among 3 bidders, the ratio shall be 50% (l1):30% (L2):20 (L3).

In case L2 & L3 bidders does not agree to match the L1 prices, negotiation can be held with other techno-commercially responsive L4, L5 ……bidders in sequence to match L1 price (Landed cost).

26.1 CONTACTING THE PURCHASER:
26.1.1 From the time between Bid opening to award of contract, if any Bidder wishes to contact the Purchaser on any matter related to the Bid, he should do so in writing.
26.1.2 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 of Award, will result in the rejection of the Bidder’s Bid.

26.2 THE PURCHASER’S RIGHT TO ACCEPT ANY BID AND TO REJECT ANY OR ALL BIDS OR TO RELAX ANY TERMS AND CONDITIONS:
26.2.1 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 regarding the grounds for the Purchaser’s action.
26.2.2 In the interest of work, the Purchaser reserves the right to relax any terms and conditions without affecting the quality & price of the equipments.

26.3 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 perform the Contract satisfactorily. The Purchaser at its option/ discretion may split the total quantity to be supplied between two or more Techno- Commercially responsive Bidders in case of the bid prices are same and early delivery is required by the purchaser.

26.4 THE PURCHASER’S RIGHT TO VARY QUANTITIES:
The Purchaser reserves the right to vary the quantity i.e. increase or decrease the number of materials without any change in terms and conditions at the time of placing the orders or during the execution of the Contract.

26.5 LETTER OF INTENT / NOTIFICATION OF AWARD:
26.5.1 The letter of intent / Notification of Award shall be issued to the successful Bidder(s) whose bid(s) 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 to it within 7 days of issue of the letter of intent / Notification of Award by Purchaser.

27.0 PERFORMANCE SECURITY:
27.1 Within 10 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 executed on non-judicial stamp paper worth Rs.100/- (Rupees One hundred only) issued by a Public Sector Bank in favour of the Purchaser encashable at Burla/Sambalpur only 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 Section –V of Bidding Documents. The Bank Guarantee shall be valid for a period not less than 90 days over and above the guarantee period.

28 CORRUPT OR FRAUDULENT PRACTICE:
28.1 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 amount 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) Purchaser will reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practice in competing for the contract in question.

c) Purchaser will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded an contract if he at any time determines that the firm is engaged in corrupt or fraudulent practice in competing for, or in executing, the Contract.

28.2 Furthermore, Bidders shall be aware of the provision stated in the General Terms and Conditions of Contract.

29.0 LITIGATION HISTORY

The Bidder should provide accurate information on any litigation or arbitration resulting on contracts completed or under execution by him over the last three (3) years. A consistent history of awards involving litigation against the Bidder or any Partner of the joint venture/Consortium may result in disqualification of Bid.
SECTION – III

GENERAL TERMS AND CONDITIONS OF CONTRACT (GTCC)
SECTION – III

GENERAL TERMS AND CONDITIONS OF CONTRACT (GTCC)

1.0 GENERAL INSTRUCTIONS:
1.1 All the Bids shall be prepared and submitted in accordance with these instructions.
1.2 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.
1.3 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 the other party.
1.4 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.
1.5 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:
2.1 WESCO Utility shall mean the “Purchaser” on whose behalf this bid enquiry is issued by its authorized representative / officers.
2.2 “Bidder” shall mean the firm who quotes against this bid document issued by the Purchaser. “Contractor / Seller” shall mean the successful Bidder(s) whose bid has been accepted by the Purchaser and shall include his heirs, legal representatives, successors and permitted assigns.
2.3 “Site” shall mean the Electricity Distribution Area of the Purchaser.
2.4 “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 Section –V, General Conditions of Contract, Specifications and the Amendments, Revisions, Deletions or Additions, as may be made by the Purchaser from time to time.
2.5 “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 detailed Purchase Order shall be taken as the effective date of the commencement of contract.
2.6 “Month” shall mean the calendar month and “Day” shall mean the calendar day.
2.7 “Codes and Standards” shall mean all the applicable codes and standards as indicated in the Technical Specification.
2.8 “Offer Sheet” shall mean Bidder’s firm offer submitted to Purchaser in accordance with the specification.
2.9 “Contract” shall mean the “Detailed Purchase Order” issued by the Purchaser.
2.10 “Contract Price” shall mean the Price referred to in the “Detailed Purchase Order.
2.11 “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.
2.12 “Goods/Materials” shall mean all items to be supplied under Purchase Order whether
   raw materials, processes materials, equipment, fabricated Materials, drawings or
   other documents etc. as applicable.
2.13 “Store” shall mean the Purchaser’s Store as given in the tender document.
2.14 “Project / Unit” shall mean supply of Materials as per enclosed technical specification.

3.0 CONTRACT DOCUMENTS & PRIORITY:
3.1 Contract Documents: The Specification, terms and conditions of the contract shall
   consist solely of these Tender conditions and offer sheet.
3.2 Priority: Should there be any discrepancy between any terms hereto and any term of
   the offer sheet, the terms of this tender document shall prevail.

4.0 SCOPE OF WORK:
4.1 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.
4.2 The Purchaser reserves the right to vary the quantity, i.e., increase or decrease, at the time
   of placing order or during project execution.
4.3 All relevant drawings, data and instruction manuals and other necessary inputs shall be
   under the scope of contract.

5.0 GENERAL REQUIREMENTS:
5.1 The seller shall supply, deliver best quality Goods/Materials/Equipments & conduct
   the testing at their works of highest standards.

6.0 The seller shall be responsible & shall comply with the provisions of all statutory acts,

7.0 INSPECTION & TESTING:
   (i) The Purchaser’s representative shall be entitled at all reasonable times during
       manufacture to inspect examine and test on the Contractor’s premises the materials and
       workman-ship of all equipment to be supplied under this contract and if part of the said
       equipment is being manufactured elsewhere in any Sub-Contractor’s premises, the
       Contractor shall obtain for the Purchaser’s representative, permission to inspect,
       examine and test as if the equipment were being manufactured on the Contractor’s
       premises. Such inspection, examination and testing shall not release the Contractor
       from his obligations under the contract.

   (ii) The Contractor shall give to the Purchaser adequate time/ notice (minimum of two
       weeks time) in writing for inspection of materials indicating the place at which the
equipment is ready for testing and inspection and shall also furnish the Routine Test Certificates and Packing List along with offer for inspection to the Purchaser indicating the quantity which can be delivered in full truck load / Mini truck load to facilitate issue of dispatch instruction.

(iii) Where the contract provides for test on the Premises of the Contractor or of any of his Sub-Contractors, the Contractor shall provide such assistance, labour, materials, electricity, fuel and instruments as may be required or as may be reasonably demanded by the Purchaser’s representative to carry out such tests efficiently. The Contractor is required to produce Shop Routine Test Certificates before offering their materials for inspection.

(iv) After completion of the tests as indicated above, the Purchaser’s representative shall forward the test results to the Purchaser. If the test results confirm to the specific standard, the Purchaser shall approve the test results and communicate the same to the Contractor in writing. The Contractor shall provide atleast three copies of the test certificates to the Purchaser.

(v) The Purchaser has the right to have the test carried out at his own cost by an independent agency whenever there is a dispute regarding the quality of supply.

(vi) The Purchaser at its discretion may re-test the Materials/Equipment at its own laboratory or laboratory of his choice for reconfirmation of the test results, particularly no load losses, load losses and percentage impedance, etc.

(vii) Besides the above, the Third Party Independent Evaluation Agency (TPIEA) engaged by WESCO Utility shall have right to conduct the pre & post dispatch inspection (as explained above) of the equipment/material procured by the Purchaser jointly along with the representative of purchaser/independently by the TPIEA as the case may be.

8.0 TRAINING FACILITIES:
The Contractor shall provide all possible facilities for training of Purchaser’s Technical personnel, when deputed by the Purchaser for acquiring firsthand knowledge in assembly of the equipment and for its proper operation and maintenance in service.

9.0 REJECTION OF MATERIALS:
In the event, any of the materials / equipment supplied by the Contractor is found defective due to faulty design, bad workmanship, bad materials used or otherwise not in conformity with the requirements of the Specification, the Purchaser shall either reject the materials / equipment or ask the Contractor in writing to rectify the same. The Contractor on receipt of such notification shall either rectify or replace the defective materials/equipment free of cost to the Purchaser. If the Contractor fails to do so, the Purchaser may:
a) At its option replace or rectify such defective materials/equipment and recover the extra costs so involved from the Contractor plus (15%) fifteen percent and / or.

b) Terminate the contract for balance work / supplies with enforcement of penalty Clause as per contract for the un-delivered materials and with forfeiture of Performance Guarantee/ Composite Bank Guarantee.

c) Acquire the defective equipment / materials at reduced price considered equitable under the circumstances.

10.0 EXPERIENCE OF BIDDERS :
10.1 The bidder(s) should furnish information regarding experience particularly on the following points :

a) Name of the manufacturer:
b) Standing of the firm for manufacture of equipment/material quoted:
c) Description of materials/equipment supplied during the last 3 (three) years with the name (s) of the party (s) to whom supplies were made.
d) Testing facilities at manufacturer’s work with copies of calibrated certificates of the major testing equipment.
e) If the manufacturer is having collaboration with other firm(s), details regarding the same:
f) A list of Purchase orders, executed during the last three years along with user’s certificate and copies of Purchase orders. **Excise invoices to be submitted for the supplied materials & store receiving vouchers are must for the bidder.**

10.2 Bids may not be considered if the past manufacturing experience is found to be un-satisfactory as mentioned under clause -6 of the IFB.

11.0 LANGUAGE AND MEASURES:
All documents pertaining to the contract including Specifications, Schedule, Notice, Correspondence, Operating & Maintenance instructions, Drawings or any other writing shall be written in English language. The metric system of measurement shall be used exclusively in this contract.

12.0 DEVIATION FROM SPECIFICATION :
It is in the interest of the Bidders to study the Specification, drawing etc. specified in the tender document thoroughly before tendering so that, if any deviations are made by the Bidders, the same are prominently brought out on a separate sheet in the Technical & Commercial Deviation Formats enclosed at Annexure VI (A) & VI (B) in this document. Deviation mentioned in any other format or any other part of the offer document shall not be considered as a deviation & in such case it will be presumed that the bidder has accepted all the conditions, stipulated in the tender Specification, notwithstanding any exemptions mentioned therein.
13.0 PRICE BASIS:
13.01
(a) Bidder shall quote “FIRM” price. The breakup of prices shall indicate all types of Taxes, Duties and other Levies of whatsoever nature indicated separately and clearly, Packing & forwarding, transportation to site/store including transit insurances and entry tax etc. Exemption from any duties/taxes, if any, shall be supported with relevant documentary evidence.
(b) The above Prices shall also include loading at factory site & unloading at Purchaser’s site/stores. Price evaluation will be based on total landing cost, taking into account all taxes and duties.
(c) CST / VAT clearance certificate, Copy of PAN card.

14.0 TERMS OF PAYMENT:
100 % value of each consignment will be paid within 30 days of receipt of materials in good conditions at stores/ desired destination and verification there of subject to approval of the Guarantee certificates & Test Certificates and submission & acceptance of Performance Bank Guarantee equivalent to 10 % of Total Contract Price on non-judicial stamp paper worth Rs.100 in the prescribed format from a Public Sector Bank encashable at Burla/Sambalpur only.
Or
Else an equivalent amount of 10 % of the Total Contract Price shall be deducted from the invoice of the first consignment & the same shall be refunded after submission and approval of the required Performance Bank Guarantee or expiry of Guarantee Period whichever is earlier.

15.0 PRICE VALIDITY:
15.1 All bids submitted shall remain valid, firm and subject to unconditional acceptance by Purchaser for 180 days post bid date. For award of Contract, the prices shall remain valid and firm till contract completion.

16.0 GUARANTEE:
16.1 The bidder shall guarantee for satisfactory performance of the equipments/materials for a minimum period of 24 months from the date of Commissioning or 30 months from the date of receipt of last consignment whichever is earlier. In the event of any defect in the equipment/ materials arising out of faulty design, inferior quality of raw material used or bad workmanship within the guarantee period, the Seller shall guarantee to replace/ repair to the satisfaction of the Purchaser the defective equipments free of cost. Should however, the manufacturer fails to do so within a reasonable time, the Purchaser reserves the right to recover the amount from the seller either from the bills pending or may recover from the Performance Guarantee submitted by the firm. Seller shall give a Performance Bank Guarantee in favour of the Purchaser for 10% of the order value valid for 90 days over and above the guarantee obligation.
16.2 If during the defect liability period any services performed found to be defective, these shall be promptly rectified by seller at its own cost (including the cost of dismantling and reinstallation) on the instruction of Purchaser.

17.0 RELEASE:
The seller’s Performance Bank Guarantees / Assignable Bank Guarantee 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 16.01).

18.0 TECHNICAL INFORMATION / DATA:
The Purchaser 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 Purchaser and the Contractor agree to keep each other in confidence and to use the same degree of care as he uses with respect to his 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 nor misused in any other form. This technical information, drawing etc. shall be returned to the Purchaser with all approved copies and duplicates. In the event of any breach of this Contract, the Contractor shall indemnify the Purchaser against any loss, cost of damages of claim by any party in respect of such breach.

19.0 EFFECTIVE DATE OF COMMENCEMENT OF CONTRACT:
19.1 The date of the issue of the detailed Purchase Order shall be treated as the effective date of the commencement of Contract.

20.0 The bidder shall quote the basic price as well as all taxes & duties as per the enclosed format for bid prices.

21.0 PENALTY:
21.1 If supply of materials / equipments is delayed beyond the supply schedule as stipulated in Purchase order, then the seller shall be liable to pay to the Purchaser as penalty for delay, a sum of 0.5% (half percent) of the contract price for every week delay or part thereof.
21.2 The total amount of penalty for delay under the contract will be subject to a maximum of five percent (5%) of the contract price.
21.3 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 seller or from the Performance Bank Guarantee or file a claim against the seller.

22.0 VALIDITY OF THE ORDER:
The Order is valid for 10 weeks beyond the schedule date of delivery, unless otherwise extended by the Competent Authority. The Order shall stand cancelled automatically.
beyond the validity period without any correspondences and liabilities to the purchaser.

**23.0 PACKING:**
The materials / equipments shall be packed by the seller suitably as per the standard procedure for safe transport to the site / store. The cases shall be clearly marked showing distinctly the name and address of the consignee. In case of special instructions, such as “this end up”, “fragile”, “handles with care” etc., the same shall be clearly displayed on the cases.

**24.0 COMMISSIONING SPARES:**
The seller shall replace, free of cost, any spares which may be found defective by the buyer during commissioning.

**25.0 DISPUTE RESOLUTION & JURISDICTION OF CONTRACT:**
25.1 Any dispute arising out of this contract shall be referred to the MD/CMD, OPTCL who shall decide the case as sole arbitrator.
25.2 For the purpose of dispute resolution, this agreement shall be governed by the provision of Arbitration & Conciliation Act, 1996.
25.3 All disputes shall be subject to exclusive jurisdiction of the Court at Burla/Sambalpur and Writ jurisdiction of Hon’ble High Court of Orissa at Cuttack.

**26.0 EVENTS OF DEFAULT:**
26.1 Events of Default. Each of the following events or occurrences shall constitute an event of default (“Event of Default”) under the Contract.
26.1.1 Seller fails or refuses to pay any amount due under the Contracts.
26.1.2 Seller fails or refuses to deliver Commodities conforming to his Bid document/specifications, or fails to deliver Commodities and, or execute the works assigned to them within the period specified in P.O or any extension thereof.
26.1.3 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;
26.1.4 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.

**27.0 CONSEQUENCES OF DEFAULT:**
a) If an Event of Default occurs and would be continuing, Purchaser may forthwith terminate the Contract by written notice.

In the 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 Contract Performance Bank Guarantee;
(ii) Recover any losses and / or additional expenses, Purchaser may incur as a result of Seller’s default.

28.0 FORCE MAJEUR:

28.01 The term “Force Majeure” as employed herein include, 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:

1. Late delivery of materials caused by congestion of Seller’s facilities or elsewhere, and oversold condition of the market, inefficiencies, or similar occurrences.
2. Late performance by Seller and / or Sub-Seller caused by unavailability of raw materials, supervisors or labour, inefficiencies of similar occurrences.
3. Mechanical breakdown of any item of Seller’s or its Sub-Seller’s equipment, plant or machinery.
4. Delays due to ordinary storm or inclement weather or
5. 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.

28.02 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 the cause lasts.

28.03 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 even 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 10(ten) days, the parties shall meet and determine the measures to be taken.
28.04 Any delay or failure in performance by either party hereto shall not give rise to any claims for damages or loss of anticipated profits if and to the extent, such delay or failure is caused by Force Majeure.

29.0 EMBossing / PUNCHING / CASTING
29.1 The all equipments and materials supplied under the DEPOSIT Programme shall bear distinct mark of “Name of the Purchaser, DEPOSIT head, Purchase Order No. & Date” by a way of embossing / punching / casting etc. This should be clearly visible to naked eye.

30.0 INDEMnIFY
30.1 The Vendor, its successor and assignee shall indemnify the Purchaser, its successor and assignee from all current & future liabilities that may arise out of purchase contract(s) entered into between the vendor & the Purchaser under this DEPOSIT head. The Purchaser in term shall indemnify the WESCO.
SECTION – IV

TECHNICAL SPECIFICATION

25 KVA 11/0.433 KV DISTRIBUTION TRANSFORMERS
DETAILED TECHNICAL SPECIFICATION
11/0.433 KV 25 KVA DISTRIBUTION TRANSFORMER

1.0 SCOPE:
1.1 This specification covers design, manufacturing, engineering, stage inspection, testing, pre-despatch inspection, supply loading, unloading and delivery of 25 KVA, 11/0.433 KV, three phase, BEE 3 star rated oil immersed, Oil Natural (ON), outdoor type CRGO Core distribution transformers (conventional type) suitable for 11 KV and 50 Hz distribution system.

1.2 The equipment offered should have been successfully type tested within five years from date of opening tender and the designs should have been in satisfactory operation for a period not less than three years as on the date of bid opening. Compliance shall be demonstrated by submitting with the bid, (i) authenticated copies of the type test reports and (ii) performance certificates from the users, specifically from Central Govt./ State Govt. or their undertakings.

1.3 The equipment offered shall be complete with all parts necessary for their effective and trouble-free operation. Such parts will be deemed to be within the scope of the supply irrespective of whether they are specifically indicated in the commercial order or not.

1.4 It is not the intent to specify herein complete details of design and construction. The equipment offered shall conform to the relevant standards and be of high quality, sturdy, robust and of good design and workmanship complete in all respects and capable to perform continuous and satisfactory operations in the actual service conditions at site and shall have sufficiently long life in service as per statutory requirements.

1.5 The design and constructional aspects of materials shall not withstanding any anomalies, discrepancies, omissions, in-completeness, etc. in these specifications and will be subject to good engineering practice in conformity with the required quality of the product, and to such tolerances, allowances and requirements for clearances etc. as are necessary by virtue of various stipulations in that respect in the relevant Indian Standards, IEC standards, I.E. Rules, I.E. Act and other statutory provisions.

1.6 The Bidder / supplier shall bind himself to abide by these considerations to the entire satisfaction of the purchaser and will be required to adjust such details at no extra cost to the purchaser over and above the tendered rates and prices.

1.7 Tolerances:
The tolerance of guaranteed performance figures shall be as specified in the (Part-I) table 7 of latest issue of IS: 2026 or relevant International Standard except wherever specified otherwise in this specification.
<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Rated KVA (ONAN rating)</td>
<td>25 KVA, 11/0.433 KV</td>
</tr>
<tr>
<td>2.</td>
<td>No. of Phases</td>
<td>3</td>
</tr>
<tr>
<td>3.</td>
<td>Type of installation</td>
<td>O/D</td>
</tr>
<tr>
<td>4.</td>
<td>Frequency</td>
<td>50 Hz (±5%)</td>
</tr>
<tr>
<td>5.</td>
<td>Cooling medium</td>
<td>Insulating Oil (ONAN)</td>
</tr>
<tr>
<td>6.</td>
<td>Type of mounting</td>
<td>On channel</td>
</tr>
<tr>
<td>7.</td>
<td>Rated Voltage</td>
<td></td>
</tr>
<tr>
<td>a)</td>
<td>High voltage winding</td>
<td>11 KV</td>
</tr>
<tr>
<td>b)</td>
<td>Low voltage winding</td>
<td>0.433 KV</td>
</tr>
<tr>
<td>8.</td>
<td>Highest continuous system voltage</td>
<td></td>
</tr>
<tr>
<td>a)</td>
<td>Maximum system voltage ratio (HV/LV)</td>
<td>12 KV/0.476 KV</td>
</tr>
<tr>
<td>b)</td>
<td>Rated voltage ratio (HV/LV)</td>
<td>11 KV/0.433 KV</td>
</tr>
<tr>
<td>9.</td>
<td>No. of windings</td>
<td>Two winding Transformers</td>
</tr>
<tr>
<td>10.</td>
<td>Type of cooling</td>
<td>ONAN (Oil natural/Air natural)</td>
</tr>
<tr>
<td>11.</td>
<td>KVA rating corresponding to ONAN cooling system</td>
<td>100%</td>
</tr>
<tr>
<td>12.</td>
<td>Method of connection</td>
<td></td>
</tr>
<tr>
<td>a)</td>
<td>HV:</td>
<td>Delta</td>
</tr>
<tr>
<td>b)</td>
<td>LV:</td>
<td>Star</td>
</tr>
<tr>
<td>13.</td>
<td>Connection symbol</td>
<td>Dyn 11</td>
</tr>
<tr>
<td>14.</td>
<td>System earthing</td>
<td>Neutal of LV side to be solidly earthed</td>
</tr>
<tr>
<td>15.</td>
<td>Percentage impedance voltage on normal tap and KVA base at 75 °C corresponding to HV/LV rating and applicable tolerances</td>
<td>1. (no negative tolerance)</td>
</tr>
<tr>
<td>16.</td>
<td>Intended regular cyclic overloading of windings</td>
<td>As per IEC: 76-1, Clause: 4.2</td>
</tr>
<tr>
<td>17.</td>
<td>Anticipated unbalanced loading</td>
<td>Around 10%</td>
</tr>
<tr>
<td>b)</td>
<td>Anticipated continuous loading of windings (HV/LV)</td>
<td>110% of rated current</td>
</tr>
<tr>
<td>18.</td>
<td>Type of tap changer</td>
<td>NA</td>
</tr>
<tr>
<td>19.</td>
<td>Neutral terminal to be brought out</td>
<td>On LV side only</td>
</tr>
<tr>
<td>20.</td>
<td>Over Voltage operating capability and duration</td>
<td>112.5% of rated voltage (continuous)</td>
</tr>
<tr>
<td>21.</td>
<td>Maximum flux density in any part of the core and yoke at rated KVA, rated voltage, i.e., 11 KV/0.433 KV and system frequency of 50 Hz</td>
<td>1.5 T</td>
</tr>
<tr>
<td>22.</td>
<td>Insulation levels for windings</td>
<td></td>
</tr>
<tr>
<td>a)</td>
<td>1.2/50 microsecond wave shape impulse withstand (KVp)</td>
<td>HV: 95 KVp &amp; LV: NA</td>
</tr>
<tr>
<td>23. Type of winding insulation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>a) HV winding</td>
<td>Uniform</td>
<td></td>
</tr>
<tr>
<td>b) LV Winding</td>
<td>Uniform</td>
<td></td>
</tr>
</tbody>
</table>

| 24. Withstand time for three phase short circuit | 2 second |  

| 25. Noise level at rated voltage and frequency | As per NEMA publication No.: TR-1 |  

| 26. Permissible Temperature rise over ambient temperature of 50 °C |  
|---------------------------------------------------------------|---------------------------------|  
| a) of Top Oil measured by thermometer                        | 35 °C                           |  
| b) of winding measured by resistance                          | 40 °C                           |  

| 27. Minimum HV clearances in Air (mm) |  
|--------------------------------------|--------------------------------|  
| a) Phase to Phase                    | 280                            |  
| b) Phase to Ground                   | 140                            |  

| 28. Bushings & Terminals |  
|-------------------------|-------------------------------|  
| a) HV winding line end   | 12 KV oil filled porcelain communicating type of bushings (Antifog type) |  
| b) LV winding            | 0.4 KV Porcelain type of bushing (Antifog type) |  

| 29. Insulation level of bushing |  
|---------------------------------|--------------------------------|  
| a) Lightning Impulse withstand (KVp) | HV: 95 KVp/ LV: NA |  
| b) 1 minute Power frequency withstand voltage (KVrms) | HV: 28 KVrms/LV: 3 KVrms |  
| c) Creepage distance (mm) (minimum) | 25 mm/KV |  

| 30. Material of HV & LV conductor | EC grade Aluminium |  

| 31. Maximum current density for HV & LV winding for rated current | 1.6 amp/ mm² |  

| 32. Polarisation index, i.e., ratio of megger values at 600 sec for HV to earth, LV to earth & HV to LV | $\geq 1.5 \leq 5$ |  

| 33. Core assembly | Boltless Type |  

### 2.0 APPLICABLE STANDARDS:

The design, manufacture and performance of the equipment shall comply with all currently applicable statutes, regulations and safety codes. The Distribution Transformers shall conform to IS: 2026 as amended up to date or other International Standards for equal or better performance. Unless otherwise specified, the equipment offered shall conform to latest applicable Indian, IEC, British or U.S.A. Standards and in particular, to the following:
### 3.0 SERVICE CONDITIONS:

Equipment supplied against the specification shall be suitable for satisfactory operation under the following tropical conditions:

<table>
<thead>
<tr>
<th>Condition</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Ambient air temperature</td>
<td>50°C</td>
</tr>
<tr>
<td>Max. Relative humidity</td>
<td>100%</td>
</tr>
<tr>
<td>Max. Annual rainfall</td>
<td>1500 mm</td>
</tr>
<tr>
<td>Max. Wind pressure</td>
<td>260 kg/sq. m v.</td>
</tr>
<tr>
<td>Max. Altitude above mean sea level</td>
<td>1000 mtrs.</td>
</tr>
<tr>
<td>Isoceraunic level</td>
<td>50</td>
</tr>
<tr>
<td>Seismic level (Horizontal acceleration)</td>
<td>0.3g</td>
</tr>
<tr>
<td>Climatic Condition</td>
<td>Moderately hot and Humid Tropical climate conducive to rust and fungus growth.</td>
</tr>
<tr>
<td>Reference Ambient Temperature for Temperature rise</td>
<td>50°C</td>
</tr>
</tbody>
</table>

The climatic conditions are prone to wide variations in ambient conditions and hence the equipment shall be of suitable design to work satisfactorily under these conditions.

### 4.0 System Particulars:

The transformers shall be suitable for outdoor installation with following system
particulars and they should be suitable for service under fluctuations in supply voltage as permissible under Indian Electricity Rules.

Nominal System Voltage : 11 KV (HV) & 433 V (LV)
Corresponding Highest System Voltage : 12 KV (HV) & 476 KV (LV)
Neutral earthing arrangements : Solidly earthed (LV System)
Frequency : 50 Hz with ± 5% tolerance
Number of phase : 3
Power frequency one minute withstand (wet & Dry) : 28 KVRms (HV) & 3 KVRms
Insulation Level (1.2/50 sec impulse withstand) : 95 KVP (11 KV)
Nominal Short Circuit apparent power of the system : 500 MVA (as per IS: 2026 for HV)

5.0 Specific Technical requirement:
   a) Standard KVA Ratings: - The standard ratings for transformer shall be 25 KVA.
   b) Nominal voltage ratings: Primary voltage: 11 KV, Secondary voltage: 0.433 KV.
   c) Winding connections:

<table>
<thead>
<tr>
<th></th>
<th>H. V. Winding</th>
<th>Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>L. V. Winding</td>
<td></td>
</tr>
</tbody>
</table>

   d) Temperature Rise:
      i) The temperature rise for top oil over an ambient temperature of 50°C should be 40°C maximum (measured by thermometer in accordance with IS 2026 or relevant International Standard). I.e. Max. Temp. Of top oil shall not exceed 90°C.
      ii) Temperature rise for winding over an ambient temperature of 50°C should be 45°C maximum (measured by resistance method in accordance with IS 2026 or relevant International Standard). I.e. Max. Temp. of winding shall not exceed 95°C.
   e) No Load Voltage Ratio: The no load voltage ratio shall be 11000/430 Volts
   f) Tapping: - No tap switch to be provided.

6.0 Design & Construction:
The transformers shall be of core type construction, double wound, three phase, oil immersed, 11/0.433KV, 50 Hz with natural oil and air cooling (ONAN) to be used as step down transformers for outdoor use. The design of the tank, fittings, bushings, etc shall be such that it will not be necessary to keep the transformer energised to prevent deterioration as the transformers may be held in reserve, outdoors, for many years.

6.1 CORE:
   (i) The Core shall be stacked type.
      a) For Stack core:
         The core shall be of high prime grade cold rolled grain oriented (C.R.G.O) annealed
steel lamination having low loss and good grain properties, coated with hot oil proof insulation, bolted together to the frames firmly to prevent vibration or noise. All core clamping bolts shall be effectively insulated. The complete design of core must ensure permanency of the core losses with continuous working or the transformers.

b) The construction of Top/Bottom yoke shall be one. No cut core shall be allowed by any case.

(ii) The grade of core laminations shall be M4 or better. The grade of core laminations shall be required to submit the manufacturer’s test report showing the watt Loss per kg and the thickness of the core lamination, to ascertain the quality of Core materials. The purchaser reserves the right to get sample of the core material tested at any Government recognized laboratory.

(iii) The transformer core shall not be saturated for any value of V/f ratio to the extent of 112.5% of the rated value of V/f ration (i.e. 11000/50 or 22000/50) (due to combined effect of voltage and frequency) up to 12.5% without injurious heating at full load conditions and will not get saturated. The bidder shall furnish necessary design data in support of this situation.

(iv) Core base and bottom yoke shall be supported with 40 x 5 mm MS plate of adequate size properly bolted together.

(v) Flux Density:
Flux density should not be more than 1.50 Tesla at the rated voltage and frequency. The value of the flux density allowed in the design shall be clearly stated in the offer along with graph.

(vi) The No load current at rated voltage shall not exceed the percentage given in Table below.

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>KVA Rating</th>
<th>At Rated Voltage</th>
<th>At 112.5% Rated Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>25</td>
<td>2.0% of full load current in LT windings</td>
<td>4.0% of the full load current</td>
</tr>
</tbody>
</table>

(vii) Number of steps of core shall be of minimum 5 for 25 KVA transformers.

Note: In case if it is found at any stage that the core used is defective/second used/scrap core or No load loss found to be more than stipulated limits, the supplier is liable for imposing penalty and even blacklisting the firm at the discretion of Purchaser.

6.2 Windings:

a) Materials: Double paper covered Aluminum conductor shall be used for HV and LV winding.
b) Current Density: Current density for HV and LV winding or any part should not be more than **1.6 amp/ sq.mm.**
c) L.V. Neutral formation shall be at top.
d) Vertical ducts & sufficient spacers should be provided between HV & LV windings.
e) The current density of delta lead shall not exceed 0.8 A/mm².
f) The no of LV coil and HV coil in one limb shall be **1 & 4** for 25 KVA transformers.

6.3 **Breather:**
Breather joints will be screwed type. It shall have die-cast aluminum body or of Poly propylene materials and inside container for silica gel shall be of tin sheet, in case of aluminum die cast breather. Makes of the breather shall be subject to purchaser’s approval. Volume of breathers shall be suitable for 100 gm. of Silica Gel for 25 KVA transformers. The make and design of breather shall be subject to approval of purchaser.

6.4 **Losses:**
The Losses shall not exceed the values given below.

<table>
<thead>
<tr>
<th>KVA</th>
<th>Total Losses at 50% load at 75°C</th>
<th>Total Losses at 100% load at 75°C</th>
<th>% Impedance at 75°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>210 W (Maximum)</td>
<td>695 W (Maximum)</td>
<td>4.5 (No negative tolerance)</td>
</tr>
</tbody>
</table>

*No tolerance for losses of 11/0.433 kV. Distribution transformers as per IS: 1180 (Part 1) amended up to date. In case the actual loss values exceed the above guaranteed values, the transformers shall be rejected at the risk, cost and responsibility of the supplier.*

_The values guaranteed in G.T.P. for flux density, no load current at rated voltage, no load current at 112.5% of rated voltage and no load loss at rated voltage shall be individually met._

6.5 **Insulation material & clearances:**
a) Materials – Makes of Electrical grade insulating craft paper, press Board, Parma wood/ Haldi wood insulation shall be declared in GTP by the bidder. The test reports for all properties as per relevant I.S. amended up to date shall be submitted during inspection.

b) The electrical clearance between the winding and body of the tank (between inside surface of the tank and outside edge of the windings) should not be less than 25 mm for 11 KV class.
Minimum external clearances of bushing terminals:

<table>
<thead>
<tr>
<th></th>
<th>Phase to Phase</th>
<th>Phase to Earth</th>
</tr>
</thead>
<tbody>
<tr>
<td>HV</td>
<td>255 mm</td>
<td>140 mm</td>
</tr>
<tr>
<td>LV</td>
<td>75 mm</td>
<td>40 mm</td>
</tr>
</tbody>
</table>

c) The clearance between HV coil & Top / Bottom yoke shall be 21 mm (min).
d) Inter coil insulation shall not be less than 6 mm.
e) The insulation between core & LV shall be 2.5 mm (min).
f) The insulation between HV coil & LV coil shall be 10 mm (min).
g) Minimum 6 nos. of wedges to be provided.

### 6.6 Impedance Value:
The percentage impedance at 75°C shall be **4.5%** for 25 KVA transformers. No negative tolerance on % impedance is allowed.

### 6.7 Tank

6.7.1 The transformer tank shall be made up of prime quality, High grade, low carbon steel plate & suitable for welding. The transformer tank shall be of robust construction. All joints of tank and fittings should be oil tight and no bulging shall occur during service. The tank design shall be such that the core and windings can be lifted freely. The tank plates shall be of such strength that the complete transformer when filled with oil may be lifted bodily means of the lifting lugs provided. Tank inside shall be painted by hot oil resistant varnish or paint. Top cover plate shall be slightly sloping; approximately 5 to 10 deg. Towards HV bushing and edges of cover plate should be bent downwards so as to avoid entry of water through the cover plate gasket. The width of bend plate shall be 25 mm min. the top cover shall have no cut at point of lifting lug. The rectangular tank shall be fabricated by welding at corners.

6.7.2 The tank shall be at atmospheric pressure at an internal temperature of 10°C. The tank design shall be for an internal pressure of 100 Kg/m² at 50°C ambient conditions. It shall be capable of withstanding an unlimited number of 24 hours cyclic variations of internal pressure from atmospheric to this value.

6.7.3 The tank should be of rectangular shape. Horizontal or vertical joints in tank side walls and its bottom or top cover will be not allowed. In addition the cover of the main tank shall be provided with an air release plug.

<table>
<thead>
<tr>
<th>Side Wall Thickness</th>
<th>3.15 mm (min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top &amp; Bottom Plate Thickness</td>
<td>5 mm (min)</td>
</tr>
</tbody>
</table>

6.7.4 Reinforced by welded flat (50 x 6) for 25 KVA on all the outside walls on the edge of tank to form two equal compartments. The permanent deflection is not more than 5
mm up to 750 mm length and 6 mm up to 1250 mm length when transformer tank without oil is subject to air pressure of 35 Kpa above atmospheric pressure for 30 min. Pressure test shall be performed carefully at the time of 1st stage inspection only to confirm the adequacy of reinforcement angle and gauge of the tank and certified by inspector.

6.7.5 All welding operations to be carried out by MIG process.

6.7.6 Lifting lugs: 2 nos. for 25 KVA of MS plate of 10 mm thickness suitably reinforced by vertical supporting flat of same thickness as of lug welded edgewise below the lug on the side wall, up to reinforcing angle. They shall be so extended that cutting of bend plate is not required.

6.7.7 Top cover fixing bolts: GI nut bolts of 3/8” dia x ½”, with one plain washer shall be used for top cover fixing, spaced at 21/2” apart. 6 mm neoprene bonded cork oil resistance gaskets conforming to type B/C IS 4253 Part- II amended up to date will be placed between tank and cover plate. Four nos sealing bolt to be provided at four corners of top cover.

6.7.8 All pipes, radiators stiffeners which are welded to the tank wall shall be welded externally & shall be double welded wherever possible. All welds shall be stress relieved.

6.7.9 Vertical clearance: The height of the tank shall be such that minimum vertical clearance up to the top cover plate of 80 mm is achieved from the top of yoke for both transformers.

7.0 Painting
(i) All paints shall be applied in accordance with the paint manufacturer's recommendations. Particular attention shall be paid to the following:

   a) Proper storage to avoid exposure as well as extremes of temperature.
   b) Surface preparation prior to painting.
   c) Mixing and thinning
   d) Application of paints and the recommended limit on time intervals between coats.
   e) Shelf life for storage.

(ii) All paints, when applied in normal full coat, shall be free from runs, sags, wrinkles, patchiness, brush marks or other defects.

(iii) All primers shall be well marked into the surface, particularly in areas where painting is evident, and the first priming coat shall be applied as soon as possible after cleaning. The paint shall be applied by airless spray according to the manufacturer’s recommendations. However, wherever airless spray is not possible, conventional spray be used with prior approval of purchaser.

(iv) The supplier shall, prior to painting protect nameplates, lettering gauges, sight
7.1 Cleaning and Surface Preparation

(i) After all machining, forming and welding has been completed, all steel work surfaces including radiators shall be thoroughly cleaned of rust, scale, welding slag or spatter and other contamination prior to any painting.

(ii) Steel surfaces shall be prepared by Sand/Shot blast cleaning in accordance with ISO 8501 part 1 or chemical cleaning by seven tank process including Phosphate to the appropriate quality.

(iii) The pressure and Volume of the compressed air supply for the blast cleaning shall meet the work requirements and shall be sufficiently free from all water contamination prior to any painting.

(iv) Chipping, scraping and steel wire brushing using manual or power driven tools cannot remove firmly adherent mill-scale and shall only be used where blast cleaning is impractical.

7.2 Protective Coating

As soon as all items have been cleaned and within four hours of the subsequent drying. They shall be given suitable anticorrosion protection (painting) strictly as stated below.

| Painting of Transformer Tank, Pipes and Radiators etc. |
|------------------------------|-----------------|-----------------|-----------------|-----------------|------------------|
| Surface Preparation          | Primer Coat     | Intermediate Undercoat | Finish Coat     | Total DFT       | Colour Shade     |
| Tank, Pipe etc. (External Surfaces) | Blast Cleaning  | Epoxy base Zinc Primer (30-40 µm) | Epoxy HB MIO (30-40 µm) | Aliphatic Polyurethane (min 50 µm) | Min 155 µm | 697 shade as per IS 5 |
| Tank (Internal surfaces)     | Blast Cleaning  | Hot oil resistant, non-corrosive varnish or paint or epoxy | ----- | ----- | Min 30 µm | Glossy white for paint |
| Radiator (External surfaces) | Chemical/blast cleaning (Sa2 1/2) | Epoxy base Zinc Primer (30-40 µm) | Epoxy base Zinc Primer (30-40 µm) | PU paint(min 50 µm) | Min 110 µm | Matching shade of tank / different shade aesthetically matching to tank |
| Radiator and pipes (Internal surfaces) | Chemical cleaning if required | Hot oil proof, low viscosity varnish, flushing with transformer oil | ----- | ----- | ----- | ----- |

7.3 Painting Procedure:

(i) Painting shall be carried out in conformity with both specifications and with
the paint manufacture's recommendations. All paints in anyone particular system. Whether shop or site applied, shall originate from one paint manufacturer.

(ii) Particular attention shall be paid to the manufacturer’s instructions on storage, mixing, thinning and pot life. The paint shall only be applied in the manner detailed by the manufacturer e.g. brush, roller, conventional or airless spray and shall be applied under the manufacturer's recommended conditions. Minimum and maximum time intervals between coats shall be closely followed.

(iii) All prepared steel surfaces should be primed before visible re-rusting occurs or within 4 hours whichever is sooner. Chemical treated steel surfaces shall be primed as soon as the surface is dry and while the surface is warm.

(iv) Where the quality of film is impaired by excess film thickness,(wrinkling, mud cracking or general softness) the supplier shall remove the unsatisfactory paint coatings and apply another. As a general rule, dry film thickness should not exceed the specified minimum dry film thickness by more than 25%. In all instances, where two or more coats of the same paints are specifies, such coatings may or may not be of contrasting colors.

(v) Paint applied to items that are not be painted, shall be removed at supplier's expense, avail the surface clean, un-stained and undamaged.

7.4 Damage to Paints Work:

(i) Any damage occurring to any part of the painting scheme shall be made good to the same standard of corrosion protection and appearance as that originally employed.

(ii) Any damaged paint work shall be made as follows:
   a) The damaged area, together with an area extending 25mm around its boundary, shall be cleaned down to bare metal.
   b) A priming coat shall immediately applied, followed by a full paint finish equal to the originally applied and extending 50mm around the perimeter of the originally damaged.

(iii) The repainted surface shall present a smooth surface. This shall be obtained by carefully chamfering the paint edges before & after priming.

(iv) Dry Film Thickness

(v) To the maximum extent practicable, the coats shall be applied as a continuous film of uniform thickness and free of pores. Over-spray, skips, runs, sags and drips should be avoided. The different coats may or may not be same color.

(vi) Each coat of paint shall allow hardening before the next is applied as per manufacture's recommendations.

(vii) Particular attention must be paid to full film thickness at edges.

(viii) Painting Procedure: All painting shall be carried out in conformity with both specifications and with the paint manufacture's recommendations. All paints in anyone particular system. Whether shop or site applied, shall originate from one
paint manufacturer.

(ix) Particular attention shall be paid to the manufacturer’s instructions on storage, mixing, thinning and pot life.

(x) The paint shall only be applied in the manner detailed by the manufacturer e.g. brush, roller, conventional or airless spray and shall be applied under the manufacturer's recommended conditions. Minimum and maximum time intervals between coats shall be closely followed.

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(xiii) Paint applied to items that are not be painted, shall be removed at supplier's expense, avail the surface clean, un-stained and undamaged.

7.5 **Heat Dissipation:**
Heat dissipation by tank walls excluding top and bottom should be 500W / sq, m.

7.6 **Mounting Arrangement:**
The transformers shall be provided with two mounting lugs suitable for fixing the transformer to a single pole by means of 2 bolts of 20 mm dia. The transformer shall also be provided with base channels of 75x40 mm thickness, 460 mm long with holes of 14 mm dia at a centre to centre distance of 415 mm for fixing the transformer on a platform.

7.7 **Terminals:**
Brass terminal stud of suitable size to carry 250 AMP for HT with necessary nuts, check-nuts and plain thick tinned washer. Each HT bushing shall be provided with a bi-metallic terminal connector to receive 25-100 sq mm AAAC. Brass terminal stud of suitable size to carry 250 A for LT with necessary nuts, check-nuts and plain thick tinned washer.

7.8 **Bushings & Connections :**
(i) For 11 KV class 12 KV bushing, shall be used and for 430 volts 1.1 KV bushing shall be used. Bushings of the same voltage class shall be interchangeable & antifog type. Bushings with plain shed shall be as per relevant IS: 3347 amended up to date. HV bushings shall not be mounted directly on the top cover of transformer tank & LV bushings shall be mounted on side of the transformer tank.

(ii) The minimum creep age distance for both HV & LV Bushings shall not be less than 25mm per KV.

7.9 **Internal Connections:**
(i) **H.V. Winding:**
In case of HV winding all jumpers from winding to bushing shall have cross section larger than winding conductor. Inter coil connection shall be by crimping and brazing. Lead from series joint shall be connected to bushing rod by brazing only. The current density in series lead shall be less than 1.4 A/mm²

(ii) **L.V. Winding:**
(i) L.T. Series/parallel point shall be formed of Aluminum/Copper flat of sufficient length & size. Lead from winding shall be connected to the flat by crimping and brazing.
(ii) For Aluminum windings, L&T Alkalee aluminum brazing rods with suitable flux shall be used.

7.10 **Terminal Marking Plates and Rating Plates:**
Terminals shall be provided with terminal marketing plates. The transformer shall be provided with riveted rating plate of minimum 8 SWG aluminium anodized material sheet in a visible position. The entries of the rating plate shall be in indelibly marked (i.e. by etching, engraving or stamping) as WESCO and ‘Sr. No.’ of transformer shall be engraved on transformer main tank below L.T. bushings.

The name of the company, order No., capacity, month and year of manufacturing shall be engraved on separate plate which shall be firmly welded to main tank and shall form integral part of the tank.

7.11 **Fittings:**
The fittings on the transformers shall be as under:

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Rating &amp; Diagram Plate</td>
<td>1 no.</td>
</tr>
<tr>
<td>2.</td>
<td>Earthing Terminals with lugs</td>
<td>2 nos.</td>
</tr>
<tr>
<td>3.</td>
<td>Lifting lugs</td>
<td>2 nos.</td>
</tr>
<tr>
<td>4.</td>
<td>Oil filling hole with cap (on cover)</td>
<td>1 no.</td>
</tr>
<tr>
<td>5.</td>
<td>Pressure Relief Valves</td>
<td>1 no.</td>
</tr>
<tr>
<td>6.</td>
<td>Thermometer Pocket</td>
<td>1 no.</td>
</tr>
<tr>
<td>7.</td>
<td>Silica Gel Breather 100 gm</td>
<td>1 no.</td>
</tr>
<tr>
<td>8.</td>
<td>Mounting arrangement</td>
<td>2 nos.</td>
</tr>
<tr>
<td>9.</td>
<td>Arching horn for HT bushing</td>
<td>As required</td>
</tr>
<tr>
<td>10.</td>
<td>Oil level gauge indicating 3 positions of oil marked as below: On side wall</td>
<td>1 no.</td>
</tr>
<tr>
<td></td>
<td>Minimum (-) 5º C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Normal 30º C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum 98º C</td>
<td></td>
</tr>
<tr>
<td>11.</td>
<td>HT &amp; LT Bushing &amp; Connectors</td>
<td>2 HT &amp; 2 LT bushings. Each bushing (HV &amp; LV) should be provided with 3 nos. of brass nuts and 2 plain brass washers &amp; with bimetallic connectors of suitable size</td>
</tr>
</tbody>
</table>
Lightening arresters: 9 KV, 5 KA metal oxide lightening arresters of reputed make for 11 KV transformers conforming to IS: 3070/1974 of one set consisting 3 nos per Transformer should be provided with robust clamping arrangement and 25x4 mm GI connectors. Alternatively Lightening arrester with polymer insulators in conformity with relevant IEC can also be used.

7.12 **Transformer Oil:**

Oil should be filled up to 50 mm above yoke & dry air shall be filled after oil filling to give cushion for **oil expansion.** Transformer oil to be used in all the Distribution transformers shall comply with the requirements of latest IS 335/1983 amended up to date thereof. In addition the oil should conform to ‘Ageing Characteristics’ specified below for New Oil and Oil in Transformers. Type test certificates of oil being used shall be produced to at the time of stage inspection.

New Oil-Ageing characteristics after accelerated ageing test 96 hrs. at 115 °C (open beaker method with copper catalyst):

(i) Specific Resistance (Resistivity)
   a) At 20⁰ C: 2.5x10⁻¹² Ohm-Cm (Min)
   b) At 90⁰ C: 0.2 x 10⁻¹² Ohm-Cm (Min)

(ii) Dielectric dissipation factor – 0.20 (Max. tandelta) 1t 90⁰C

(iii) Total acidity mg/KOH/gm-0.05 (Max.)

(iv) Total sludge value (%) by weight – 0.05 (Max.)

(v) The method of testing these aging characteristics is given in Appendix – C of IS 335 amended up to date.

(vi) Oil filled in Transformers

The important characteristics of the transformer oil after it is filled in the transformer (within 3 months of filling) shall be as follows:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Characteristics</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Electric Strength (Breakdown Voltage)</td>
<td>60 KV (Min)</td>
</tr>
<tr>
<td>2</td>
<td>Dielectric dissipation factor (TanDelta) at 90⁰ C</td>
<td>0.01 (Max)</td>
</tr>
<tr>
<td>3</td>
<td>Specific Resistance (Resistivity) at 27⁰ C (Ω-cm)</td>
<td>10 x 10⁻¹²</td>
</tr>
<tr>
<td>4</td>
<td>Flash Point P.M. (Closed)</td>
<td>140 C (min)</td>
</tr>
<tr>
<td>5</td>
<td>Inter facial Tension at 27 C</td>
<td>0.03 N/M (min)</td>
</tr>
<tr>
<td>6</td>
<td>Neutralization Value (Total Acidity)</td>
<td>0.05 mg KOH / gm (Max)</td>
</tr>
<tr>
<td>7</td>
<td>Water Content PPM</td>
<td>35 Max</td>
</tr>
</tbody>
</table>
8.0 Test and Inspection:

8.1 Testing Facility:
The bidder should have adequate testing facility for all routine and acceptance tests and also arrangement for measurement of losses, resistance, etc. details of which will be enumerated in the tender.

The inspector of the purchaser will witness routine, Acceptance & type tests. In order to facilitate this, the manufacturer shall give a 15 days notice that the material is ready for inspection & testing. The material shall be dispatched only after approval of such test reports and issue of Dispatch clearances by the purchaser.

However the purchaser reserves the right to retest the transformers after delivery at any NABL Accredited Testing Laboratory in case of any disputes regarding guaranteed specifications of supplied transformers at a later date during guarantee period. The cost of such retesting shall be borne by the supplier.

8.2 Routine & Acceptance Tests:
8.2.1 All transformers shall be subjected to the following tests at the manufacturer’s works.
The tests are to be carried out in accordance with the details specified in IS: 2026 or as agreed upon between the purchaser and the manufacturer.
   a) Measurement of winding resistance
   b) Ratio, polarity and phase relationship
   c) Impedance voltage
   d) Load losses
   e) No-load losses and No-load current
   f) Insulation resistance
   g) Induced over voltage withstand
   h) Separate source voltages withstand.

8.2.2 All the routine tests shall be conducted in the suppliers’ laboratory at their cost.

8.2.3 Heat run test shall be arranged free of cost on the unit selected from the 1st lot by Authorized Representative.

8.2.4 The calculations to confirm the thermal ability as per Clause no. 9.1 of latest IS: 2026 Part-I or equivalent International Standard shall be submitted to our representative.

8.3 Type Tests:
The bidder should submit the report of following tests carried out in a NABL accredited laboratory along with the bid:
   a) Temperature Rise Test
   b) Short Circuit Test containing the measured no load loss and load loss
   c) Impulse Voltage Withstand Test including full wave & chopped wave
   d) Permissible flux density test & Overfluxing test
   e) Air pressure test as per clause no.22.5 of IS: 1180 (Part-I)/1989

The balance type tests as stated below should be carried at the manufacturer’s works
invariably in the presence of representative of the purchaser at the time of inspection from the first lot.

a) Unbalanced current test.
b) Noise level Measurement

In respect of the successful bidder, the purchaser reserves the right to demand repetition of some or all the above tests in presence of the purchaser’s representative. In case the unit fails in the type tests or routine tests, the complete lot offered shall be rejected.

8.4 Submission Routine Test Certificate:
The successful bidder shall submit the routine test certificate along with documentary evidence for having paid the Excise Duty for the following raw materials viz. Oil, Aluminum, copper for conductors, insulating materials, core materials, bushings at the time of routine testing of the fully assembled transformer.

8.5 Stage Inspection
8.5.1 Supplier shall give 15 days’ advance intimation to the purchaser to organize stage inspection in which assembly of core, windings and other core materials etc. would be inspected. In respect of raw materials such as core stamping, winding conductor, oil etc. successful bidder shall use these materials manufactured/supplied by the standard manufacturers and furnish the manufacturer’s test certificates, as well as, proof of purchase from those manufacturer’s documentary evidence for having paid the excise duty for the information of the department. Purchaser will depute his representative at the time of stage inspection.

8.5.2 The Purchaser shall have free entry at all times, while work on the contract is being performed, to all parts of the manufacturer’s works which concern the processing of the equipment ordered. The manufacturer shall afford the Purchaser without charge, all reasonable facilities to assure that the equipment being furnished is in accordance with this specification. After approval of Drawings by the Purchaser, the manufacture shall manufacture a Prototype Model as per the Approved Drawing and offer the same for inspection. The Inspection of the Prototype Model shall be carried out as per the Format prescribed at Clause 41, Section-IV of our Tender Specification. The Supplier shall offer the core, windings and tanks of each transformer for inspection by the Purchaser’s representative(s). During stage inspection of the Prototype Model, all the measurements like diameter, window, height, leg centre, stack width, stack thickness, thickness of laminations etc for core assembly, conductor size, insulation thickness, I.D., O.D., Winding height, major and minor insulations for both HV and LV windings, length, breadth, height and thickness of plates of transformer tanks, the quality of fittings and accessories will be taken/ determined.

8.5.3 All the transformers from the offered lot will be tested for acceptance tests at factory, in the presence of purchaser’s representative before dispatch.
8.5.4 The inspection may be carried out by the purchaser at any stage of manufacture. The successful bidder shall grant free access to the purchaser’s representatives at a reasonable time when the work is in progress. Inspection and acceptance of any equipment under this specification by the purchaser shall not relieve the supplier of his obligation of furnishing equipment in accordance with the specifications and shall not prevent subsequent rejection if the equipment is found to be defective.

8.5.5 The purchaser may at its option, open a transformer supplied to the Stores, in presence of supplier at site or at Stores. If any of the technical particulars are seen to be in variance than the guaranteed technical particulars, the whole lot of transformer will be rejected without any liability on purchaser.

8.5.6 Testing of all Distribution Transformers for no load and full load losses. After inspection of new transformers at factory for acceptance of the lot, all distribution transformers from the lot will be tested for no load and full load losses at all stores. Bidder has the liberty to be present at the time of testing.

8.5.7 Inspection & testing of Transformer Oil:
The bidder shall make arrangements for testing of transformer oil to be used in the transformers testing will be done in presence of purchaser’s representative. To ascertain quality of transformer oil, original manufacturer’s test report should be furnished to (Testing) at the time of factory inspection for acceptance of the lot.

8.6 Rejection:
Apart from rejection due to failure of the transformer to meet the specified test requirements the transformer shall be liable for rejection on any one of the following reasons.

(i) Losses exceed the specified values mentioned in specification.
(ii) Impedance voltage value exceeds the guaranteed value plus tolerances as per specification
(iii) Type test are not carried out as per the specification.
(iv) Drawings are not submitted as per the specification
(v) GTP not submitted as per the specification.
(vi) Heat dissipation calculation sheet are not submitted as per the specification.

8.7 Quality Assurance:
a) The bidder shall invariably furnish Test certificates and information as following along with the offer failing to which the offer will be rejected.
   (i) Aluminum and copper conductor
   (ii) Transformer oil
   (iii) Core
   (iv) Insulating paper
   (v) Porcelain Bushings
   (vi) Steel Plate used for Tank
(vii) List of testing & measuring equipments indicating the make, type, year of manufacture, Last date of Calibration, Name of the agency carried out the calibration etc. Purchaser reserves the right to visit the works of manufacturer to ensure the available testing facility prior to placement of order.

b) Names of the supplier for the raw materials, list of standard accordingly to which the raw materials are tested, list of test normally carried out on raw materials in presence of bidder’s representatives, copies of type test certificates.

c) Information and copies of test certificate as in (i) above respect of bought out accessories including terminal connectors.

d) List of manufacturing facilities available. In this list the bidder shall specifically mention whether lapping machine, vacuum drying plant, air conditioned dust free room with positive air pressure for provision of provision of insulation and winding etc. are available with him.

e) Level of automation achieved and list of areas where manual processing still exists.

f) List of areas in manufacturing process where stage inspection are normally carried out for quality control and details of such tests and inspections.

g) Special features provided in the equipments to make it maintenance free.

h) List of testing equipment available with the bidder for final testing of transformers and test plant limitation, if any, vis-à-vis the type, special acceptance and routine tests specified in the relevant standards and the present specification.

8.8 Drawings:
A set of following drawings with all dimensions shall be submitted by the Bidder along with the offer:

a) General Dimensional drawing

b) Core Assembly drawing

c) Internal Construction Drawing

d) Rating & Diagram Plate Drawing

e) HV/LV Bushings indicating measurement of creep age distances

f) Operation and Maintenance Manual.

The drawings shall be of A-3 (420x297mm) size only. The bidder should also supply along with his offer the pamphlet / literatures etc. for fittings/accessories.

The bidder should not change design once offered as per A/T, Approved drawings and Type Test Reports.

The successful Bidders shall submit complete set of Drawings of transformer in triplicate indicating dimensions for approval and get approved it before offering 1st stage inspection.

8.9 Performance Guarantee:
All transformers supplied against this specification shall be guaranteed for a period of 30 months from the date of receipt at the consignee’s Stores Center or 24 months from the
date of commissioning, whichever is earlier. However, any engineering error, omission, working provisions, etc. which do not have any effect on the time period, shall be attended to as and when observed / pointed out without any price implication.

9.0 COST DATA SHEET:
The bidders shall submit the cost data sheets indicating the break up prices and quantity of each raw material and components along with the unit rates required for manufacture the offered transformers along with the offer. The cost data sheet format is enclosed herewith. If the rates quoted are not justified with the cost data sheets, the offer shall not be considered for evaluation and placement of the order.

10.0 NON COMPLIANCE SCHEDULE:
On this schedule the bidder shall provide a list of non compliance with this specification, documenting the effects that such non compliance is likely to have on the equipment's life and operating characteristics. Each Non Compliance shall refer to the relevant clause of the specification.

Where there are no deviations from specifications, the bidder shall so indicate by stating "No deviations" in this schedule.

<table>
<thead>
<tr>
<th>Clause No.</th>
<th>Non-Compliance</th>
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<tbody>
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</table>

11.0 Type Test Certificates Schedule:
11.1 On this schedule a list of the test certificates included with the bid shall be provided. Each certificate listed shall be referred to the relevant specification clause and item of equipment to which the test applies.

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Particular of Test</th>
<th>Type Test Certificate</th>
<th>Year of Test</th>
</tr>
</thead>
<tbody>
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</table>

11.2 In case of any doubt in the Type test reports submitted by the bidder, the Purchaser reserves the right to verify the original Type Test Reports, as well as to refer to the concerned laboratory directly without recourse to be bidder.

12.0 3-Star Level:
In addition to above, the supplied distribution transformers must contain 3 Star level with style with style and information provided by the Bureau of Energy Efficiency (BEE), Ministry of Power, Govt. of India.

13.0 LIQUIDATED DAMAGE:
Liquidated damages for non-performance of transformers shall be recovered from the supplier in case he is unable to achieve the quoted guaranteed loss figures at the rate
equivalent to the double of the rate considered for evaluation i.e. at the following rates:

a) For each KW of excess in no load losses: Rs. 3,05,694.00
b) For each KW of excess in load losses: Rs. 40,350.00

However, the Purchaser reserves the right to reject the transformer outrightly, if any of the losses, i.e. no load loss or load loss or both exceed(s) the specified maximum permissible loss as mentioned in the technical specification.
(A) GENERAL INFORMATION

1. Name of Firm : 
2. Order No and Date : 
3. Rating of quantity offered : 
4. Details of offer : 
   (i) Rating : 
   (ii) Quantity : 
   (iii) Serial Numbers : 
5. Details of last stage inspected lot : 
   (i) Total quantity inspected : 
   (ii) Serial Numbers : 
   (iii) Date of stage inspection : 
   (iv) Quantity offered for Final inspection of : 
6. Inspection of Embossing / Punching requirement: whether Satisfies the Specification: deviation If any to be mentioned : 

(B) AVAILABILITY OF MATERIAL FOR OFFERED QUANTITY :

(Details to be filled in)

(C) POSITION OF MANUFACTURING STAGE OF THE OFFERED QUANTITY :

1. Complete tanked assembly : 
2. Core and coil assembly ready : 
3. Core assembled : 
4. Coils ready for assembly :
- HV Coils
- LV Coils

NOTE
(i) A quantity if more than 100 no’s shall not be entertained for stage inspection
(ii) The stage inspection shall be carried out in case
(iii) At Least 25% quantity offered has been tanked and
(iv) Core coil assembly of further at least 30% of the quantity offered has been completed
Quantity offered for stage inspection should be offered for final inspection within 15 days from the date of issuance of clearance for stage inspection, otherwise stage inspection already cleared shall be liable for cancellation.

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Particulars</th>
<th>As offered</th>
<th>As observed</th>
<th>Deviation &amp; Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>(D) INSPECTION OF CORE:</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td><strong>2. CORE MATERIALS:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a)</td>
<td>Manufacturer's Characteristic Certificate in respect of grade of lamination used. (Please furnish test certificate)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>b)</td>
<td>Remarks regarding Rusting and smoothness of core</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>c)</td>
<td>Whether laminations used for top and bottom yoke are in one piece</td>
<td></td>
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<tr>
<td></td>
<td><strong>3. CORE CONSTRUCTION</strong></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>a)</td>
<td>No of steps</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>b)</td>
<td>Dimension of Steps</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>c)</td>
<td>Step No.</td>
<td>1 2 3 4 5 6 7 8 9 10 11 12</td>
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<td></td>
</tr>
<tr>
<td>(i)</td>
<td><strong>As Offered:</strong></td>
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<tr>
<td></td>
<td>W mm</td>
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<td></td>
<td>T mm</td>
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<td>(ii)</td>
<td><strong>As Found</strong></td>
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<td></td>
<td>W mm</td>
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<td></td>
<td>T mm</td>
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<tr>
<td>d)</td>
<td>Core Dia (mm)</td>
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<tr>
<td>e)</td>
<td>Total Cross Section area of core</td>
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<td>f)</td>
<td>Effective cross Sectional area of core</td>
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<td>g)</td>
<td>Clamping arrangement</td>
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</tr>
<tr>
<td>(i)</td>
<td>Channel Size</td>
<td></td>
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<tr>
<td>(ii)</td>
<td>Bolt size and No</td>
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</tr>
<tr>
<td>(iii)</td>
<td>Tie Rods</td>
<td></td>
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<tr>
<td>(iv)</td>
<td>Painting</td>
<td></td>
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<td></td>
<td>Channels</td>
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<tr>
<td></td>
<td>Tie Rods</td>
<td></td>
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<td></td>
<td>Bolts</td>
<td></td>
<td></td>
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<tr>
<td>h)</td>
<td>Whether top yoke is cut for LV connection</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i)</td>
<td>If yes, at 7 above, whether Reinforcement is done</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>j)</td>
<td>Size of support Channels provided for Core base and bottom yoke (Single Piece of channels are only acceptable)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>k)</td>
<td>Thickness of insulation provided between</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core base and support channel</td>
<td></td>
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<td>-------------------------------</td>
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<tr>
<td>l) Core length (leg center to leg centre)</td>
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<tr>
<td>m) Window height</td>
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<tr>
<td>n) Core height</td>
<td></td>
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<tr>
<td>o) Core weight only (without channel etc)</td>
<td></td>
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</tr>
</tbody>
</table>

(E) **INSPECTION OF WINDING**

1. **Winding material**
   a) Material used for
      (i) HV Winding
      (ii) LV Winding
   b) Grade of material for
      (i) HV Winding
      (ii) LV Winding
   c) Test certificate of manufacturer (enclosed copy) for winding material of:
      (i) HV
      (ii) LV

2. **CONSTRUCTIONAL DETAILS**
   a) Size of Cross Sectional area of conductor for
      (i) HV Winding
      (ii) LV Winding
   b) Type of insulation for conductor
      (i) HV Winding
      (ii) LV Winding
   c) Diameter of wire used for delta formation (mm)
   d) Diameter of coils in
      (i) LV Winding
      ➢ Internal dia (mm)
      ➢ Outer dia (mm)
      (ii) HV Winding
      ➢ Internal dia (mm)
      ➢ Outer dia (mm)
   e) Current Density of winding material used for
      ➢ HV
      ➢ LV
   f) Whether neutral formation on top
      (i) HV Coils/ Phase
      (ii) Number
      (iii) Turns/ coil
   g) Total turns
      (i) LV Coils/ Phase
      (ii) Number
      (iii) Turns/ coil
(iv) Total turns

h) Method of HV Coil Joints

i) Total weight of coils of

(i) HV Winding (Kg)

(ii) LV Winding (Kg)

(F) INSULATION MATERIALS

1. **MATERIAL**

   a) Craft paper

   (i) Make

   (ii) Thickness (mm)

   (iii) Test certificate of manufacturer (enclosed copy)

   b) Press Board

   (i) Make

   (ii) Thickness (mm)

   (iii) Test certificate of manufacturer (enclosed copy)

   c) Material used for top and bottom yoke and insulation

2. **Type and thickness of material used:**

   (mm)

   a) Between core and LV

   b) Spacers

   c) Interlayer

   d) Between HV & LV winding

   e) Between phases

   f) End insulation

(G) CLEARANCES

1. **Related to core and winding**

   a) LV to Core (Radial)

   b) Between HV and LV (Radial)

   c) Phase to phase between HV Conductor

   (i) Whether two Nos. Press Board each of minimum 1 mm ;thick provided to cover the tie rods

   d) Thickness of locking spacers between LV coils (mm)

   e) Axial wedges between HV and LV coils / phase (Nos.)

   f) No. of radial spacers per phase between HV coils

   g) Size of duct between LV and HV winding (mm)

2. **Between core-coil assembly and tank:**
a) Between winding and body
   (i) Tank lengthwise
   (ii) Tank breadth wise
b) Clearance between top cover and top yoke up to 16 KVA and between top cover and top most live part of tap changing switch for 25 KVA and above

(H) TANK
1. Constructional details
   a) Rectangular shape
   b) Thickness of side wall (mm)
   c) Thickness of top and bottom place (mm)
   d) Provision of slopping top cover towards HV bushing
e) Tank internal dimensions(mm)
   (i) Length
   (ii) Breadth
   f) Height
   (i) On LV side
2. General Details
   a) Inside painted by varnish/ oil corrosion resistant paint (please specify which type of coating done)
   b) Gasket between top cover and tank
   (i) Material
   (ii) Thickness (mm)
   (iii) Joint over laps (mm)
   c) Reinforcement of welded angle (Specify size and No. of angle provided) on side walls of tank
d) Provision of lifting lugs
   (i) Numbers
   (ii) Whether lugs of 8 mm thick MS plate provided
   (iii) Whether reinforced by welded plates edge wise below the lug up to re- enforcing angle of the tank done
e) Pulling lug of MS Plate
   (i) Nos.
   (ii) Thickness (mm)
   (iii) Whether provided on breadth side or length side
f) Provision of air release plug
(g) Provision of galvanized GI Nuts Bolts with 1 No Plain and 1 No spring washer

(h) Deformation of length wise side wall of tank when subject to

(i) Vacuum of (-) 0.7 Kg/sq cm for 30 minutes

(ii) Pressure of 0.8 Kg/sq cm for 30 minutes

(I) RADIATORS

(a) Fin radiators of 1.25 mm thick sheet

(i) Dimension of each fin (L x B x T)

(ii) Fins per radiators

(iii) Total No. of radiators

(b) Verification of manufacturer’s test certificate regarding Heat dissipation (excluding Top and Bottom) in w/sq m

(c) Verification of position of radiator with respect to bushing

(J) CONSERVATOR

(a) Dimensions (L x D) (in mm)

(b) Volume (m3)

(c) Inside dia of Conservator tank

(d) Whether conservator outlet pipe is projected approx. 20 mm inside the conservator tank

(e) Whether arrangement made so that oil does not fall on the active parts

(f) Whether die cast metal oil level gauge indicator having three positions (at -5° C, 30° C and 98 ° C is provided)

(g) Whether drain plug and filling hole with cover is provided

(h) Inner side of the conservator tank painted with

(K) BREATHER

(a) Whether Die cast Aluminum body breather for silica gel provided

(b) Make

(c) Capacity

(L) TERMINALS

(a) Material whether of Brass Rods/ Tinned Copper

(i) HV

(ii) LV

(b) Size (dia in mm)

(i) HV

(ii) LV
c) Method of Star connection formed on LV side of 6mm thick (Should use Al./ Cu. Flat bolted/ brazed with crimped lugs on winding alternatively for 16 KVA rating brazed is done covered with tubular sleeve duly crimped) Please state dimensions of Al/Cu flat or tubular sleeve used (mm)
d) Method of Connection of LV of winding to LV bushing (end of winding should be crimped with lugs(Al/Cu) and bolted with bushing stud)
e) Method of Connection of HV winding to HV bushing (Copper joint should be done by using silver brazing alloy and for Aluminum, brazing rod or with tubular connector crimped at three spots
f) Whether SRB P tube/ insulated paper used for formation of Delta on HV
g) Whether Empire sleeves used on the portion of HV winding joining to HV bushing
h) Whether neutral formation is covered with cotton tape

(M) **BUSHING**
a) Whether HV bushing mounted on side walls
b) Whether sheet metal pocket used for mounting bushing (pipe are not acceptable)
   (i) HV
   (ii) LV
c) Whether arrangement for studs for fitting of HV bushing are in diamond shape (so that Arcing Horns are placed vertically)
d) Position of mounting of LV bushing
e) Bushing Clearance: (mm)
   (i) LV to Earth
   (ii) HV to Earth
   (iii) Between LV Bushings
   (iv) Between HV Bushings

(N) **TANK BASE CHANNEL/ROLLERS**
a) Size of channels (mm)
b) Whether channels welded across the length of the tank
c) Size and type of roller (mm)

(O) **OIL**
a) Name of Supplier
b) Break down voltage of oil:(KV)
(i) Filled in tanked Transformers
(ii) In storage tank (to be tested by Inspecting Officer)

c) Supplier's test certificate (Enclosed)

(P) ENGRAVING / PUNCHINGS
a) Engraving of Sl. No and name of firm
(i) On bottom of clamping channel of core-coil assembly
(ii) On side wall and top cover of tank along with date of dispatch / Guarantee Period

(Q) MS plate of size 125 x 125 mm welded on width side of stiffener
a) Following details engraved (as per approved GTP)
(i) Serial Number
(ii) Name of Firm
(iii) Order No. and Date
(iv) Rating
(v) Name of Inspecting Officer
(vi) Designation
(vii) Date of dispatch

(R) NAME PLATE DETAILS
a) Whether Name Plate is as per approved drawing

(S) Colour of Transformer
a) Tank body with light blue colour
b) Conservator with white colour

(T) CHECKING OF TESTING FACILITIES
1. Calibration certificate also to be checked for its validity
   a) TESTS
      (i) No Load Current
      (ii) No Load Loss
      (iii) % Impedance
      (iv) Load Losses
      (v) Insulation Resistance Test
      (vi) Vector Group Test (phase relationship)
      (vii) Ratio and Polarity test relationship
      (viii) Transformer oil Test (Break down Voltage)
      (ix) Magnetic Balance
      (x) Measurement of winding resistance (HV and LV both)
      (xi) Induced over voltage withstand test (Double voltage and Double frequency)
| (xii) | Separate source power frequency withstand test at 28 KV for HV and 3 KV for LV (one minute) |
| (xiii) | Air Pressure/ Oil leakage Test |
| (xiv) | Vacuum Test |
| (xv) | Unbalanced current test |
| (xvi) | Temperature rise(Heat Run) test |

2. We have specifically checked the following and found the same as per G.T.P./ deviations observed as mentioned against each

a) Rustlessness of CRGO laminations used
b) Core steps
c) Core area
d) Core weight
e) Winding cross section area
   (i) HV
   (ii) LV
f) Weight of winding
g) Clearance between winding & wall of tank (mm)
   (i) Length wise
   (ii) Breadth wise
h) Clearance between top of yoke top most part of tap changer to tank cover
i) Details of neutral formation
j) Connections to bushings
   (i) HV
   (ii) LV
k) Slope of tank top
l) Position of mounting of bushing

COMPANY INSPECTING OFFICER   FIRMS REPRESENTATIVE

DATE OF INSPECTION:

Loss Capitalization:
For 16 KVA 11/0.25 KV rating transformer mentioned in the tender schedule, being non-star rating transformer, loss levels to be offered by the participants may vary, hence loss capitalization shall be applicable.
SECTION – V

LIST OF ANNEXURES

(SCHEDULES AND FORMATS)
ANNEXURE – I

ABSTRACT OF GENERAL TERMS AND CONDITIONS
(For supply of Distribution Transformers)

1. Whether the bidder is a Manufacturer
   & furnished relevant documents : Yes / No

2. Required Cost of Tender Furnished : Yes / No

3. Required Earnest Money Furnished in Demand Draft : Yes / No

4. Quantity of material offered : Yes / No

5. Whether Type test certificates enclosed with the bid : Yes / No

6. Manufacturer’s past supply experience including
   User’s certificate furnished or not : Yes / No

7. Audited annual reports for the last 3 years furnished or not : Yes / No

8. Deviation to the specification, if any (List enclosed or not) : Yes / No

9. Whether agreed to Purchaser’s Delivery schedule : Yes / No
   If agreed,
   a) Date of commencement :
   b) Rate of delivery per month :

10. Whether agreed to Purchaser’s Guarantee clause : Yes / No

11. Whether agreed for 180 days’ validity period of Prices : Yes / No

12. Whether the Prices are FIRM : Yes / No

13. Whether agreed to furnish security deposit in shape of
    B.G. encashable at Burla/Sambalpur in case his
    Tender is successful : Yes / No

14. Whether agreed to penalty for delayed delivery : Yes / No

15. Whether agreed to Purchaser’s standard terms of Payment or not : Yes / No

16. Valid ITCC & STCC furnished or not : Yes / No

Signature of the bidder
With seal of the Bidder

This form is to be duly filled up & signed by the Bidder along with seal & submitted along with the Part-I of tender.
To

Sir,
Having examined the above specifications together with the Tender terms and conditions referred to therein.

1. I / we the undersigned do hereby offer to supply the materials covered thereon in complete shape in all respects as per the rules entered in the attached contract schedule of prices in the tender.

2. I / we do hereby undertake to have the materials delivered within the time specified in the tender.

3. I / we do hereby guarantee the technical particulars given in the tender supported with necessary reports from concerned authorities.

4. I / we do hereby certify to have furnished a copy of the tender specifications by remitting Cash/ Demand draft & this has been duly acknowledged by you in your letter No………………..Dt………………..

5. I / we hereby agree to furnish the composite Bank Guarantee in the manner specified / acceptable by THE <PURCHASER>& for the sum as applicable to me / us as per clause No.23 in Annexure-III(A) of this specification within fifteen days of issue of Letter of intent / Purchase Order, in the event of Purchase order being decided in my / us favour, failing which I / we clearly understand that the said LOI / P.O. shall be liable to be withdrawn by the Purchaser.

Signed this __________ Day of ___________ 20___

Yours faithfully,

(Signature of Bidder with Seal)

(This form should be duly filled up & signed by the bidder & submitted along with the original copy of the bid)
ANNEXURE – III

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

This Guarantee Bond is executed this ___ day of ___ by us the __________ Bank at ______
P.O. _____ P.S. _______ Dist ________ State __________
(Indicate designation of Purchaser)

Whereas as Western Electricity Supply Company of Orissa Ltd. (WESCO) Regd. Office: N 1/22, IRC Village, Nayapalli, Bhubaneswar – 751015 registered under the Company Act 1956 (here in after called “the Purchaser”) has placed Purchase Order No._________ Dt.___________ (hereinafter called “the Agreement”) with M/s _________________ (hereinafter called “the Contractor”) for supply of ________________ (name of the material) and whereas WESCO has agreed (1) to exempt the Contractor from making payment of security deposit, (2) to release 100% payment of the cost of materials as per the said agreement and (3) to exempt from performance guarantee on furnishing by the Contractor to the WESCO a composite Bank Guarantee of the value of 10% (ten percent) of the Contract price of the said Agreement.

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

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

3. We, the ________________________ Bank also undertake to pay to WESCO any money so demanded not withstanding any dispute or dispute raised by the Contractor(s) in any suit or proceeding instituted/ pending before any court or Tribunal relating thereto our liability under this Agreement being absolute and irrevocable.
The payment so made by us under this bond shall be valid discharge of our liability for payment thereunder and the Contractor(s) shall have no claim against us for making such payment.

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

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

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

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

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

Dated __________ the __________ day of Two thousand __________.

Notwithstanding anything contained herein above.

Our liability under this Bank Guarantee shall not exceed Rs.______________ (Rupees _______________ ) only.

The Bank Guarantee shall be valid up to ________________ only.

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

For _____________________________________

(Indicate the name of the Bank)

N.B.:
1. Name of the Contractor:
2. No. & date of the Purchase order / agreement:
3. Amount of P.O.:
4. Name of Materials:
5. Name of the Bank:
6. Amount of the Bank Guarantee:
7. Name, Address and Code No. of the Local Branch:
8. Validity period or date up to which the agreement is valid:
9. Signature of the Constituent Authority of the Bank with seal:
10. Name & addresses of the Witnesses with signature:
11. The Bank Guarantee shall be accepted only after getting confirmation from the respective Banks.
ANNEXURE – IV

GUARANTEED & OTHER TECHNICAL PARTICULARS FOR 25 KVA 11/0.433 KV DISTRIBUTION TRANSFORMERS

(To be furnished by the Manufacturer)

**TABLE-A**

<table>
<thead>
<tr>
<th>SL. NO.</th>
<th>DESCRIPTION</th>
<th>AS SPECIFIED</th>
<th>BIDDER’S OFFER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Make</td>
<td></td>
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<tr>
<td>2.</td>
<td>Name of the manufacturer</td>
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<td>3.</td>
<td>Place of Manufacturing</td>
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<td>4.</td>
<td>Voltage Ratio</td>
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<td>5.</td>
<td>Rating in KVA</td>
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<td>6.</td>
<td>Full load Current</td>
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<tr>
<td></td>
<td>a) HV</td>
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<td></td>
<td>b) LV</td>
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<td>7.</td>
<td>Core material used &amp; Grade</td>
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<td></td>
<td>a) Flux Density</td>
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<td>b) Over fluxing without saturation (Curve to be furnished by the manufacturer in support of his claim)</td>
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<td>8.</td>
<td>Maximum temperature rise of:</td>
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<td></td>
<td>a) Winding by resistance method</td>
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<td>b) Oil by thermometer</td>
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<td>9.</td>
<td>Magnetizing (No-load) current at:</td>
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<tr>
<td></td>
<td>a) 90% Voltage</td>
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<td>b) 100% Voltage</td>
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<td></td>
<td>c) 112.5% Voltage</td>
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<td>10.</td>
<td>Losses (should be in line with the Type Test report to be submitted along with the technical bid) in watts at 75°C:</td>
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<tr>
<td></td>
<td>a) No load loss at rated voltage &amp; frequency</td>
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<td>b) Full load loss at rated current &amp; principal tap</td>
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<td>11.</td>
<td>Resistance of windings at 20°C (with 5% tolerance)</td>
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<td>a) HV winding (Ω)</td>
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<td>b) LV winding (Ω)</td>
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<td>12.</td>
<td>Total loss in watts at 75°C</td>
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<td>13.</td>
<td>Current Density used for (amp/sq mm)</td>
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<td></td>
<td>a) HV winding</td>
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<td>b) LV winding</td>
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<td>14.</td>
<td>Clearances (mm)</td>
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<td></td>
<td>a) Core &amp; LV</td>
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<td>b) LV &amp; HV</td>
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<td></td>
<td>c) HV Phase to Phase</td>
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<td>d) End insulation clearance to earth</td>
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<td>e) Any point of winding to tank</td>
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<td>f) Between HV coils</td>
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<td>15.</td>
<td>%Impedance at 75ºC</td>
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<td>16.</td>
<td>Radiation:</td>
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<td></td>
<td>a) Heat dissipation by tank walls exclusive top &amp; bottom</td>
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<td>b) Heat dissipation by cooling tube</td>
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<td></td>
<td>c) Dia &amp; thickness of cooling tube</td>
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<td></td>
<td>d) Whether calculation sheet for selecting cooling area to ensure that the transformer is capable of giving continuous rated output without exceeding temperature rise is enclosed</td>
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<td>17.</td>
<td>Inter layer insulation provided in design for</td>
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<td></td>
<td>a) Top &amp; bottom layer</td>
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<td>b) In between all layer</td>
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<td></td>
<td>c) Details of end insulation</td>
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<td>d) Whether wedges are provided at 50% turns of the HV coil</td>
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<td></td>
<td>e) No. of wedges provided</td>
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<td>18.</td>
<td>Whether the offer confirms to the limits of impedance mentioned in the specification</td>
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<td>19.</td>
<td>Whether the offer confirms to the limits of temperature rise mentioned in the specification</td>
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<td>20.</td>
<td>Whether the losses of the transformer offered are offered are within the limits specified</td>
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<td>21.</td>
<td>Whether the transformer offered is already type tested for the rating &amp; test reports enclosed</td>
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<tr>
<td>22.</td>
<td>Whether the HV Bushings &amp; LV Bushings offered are already type tested &amp; test reports (Manufacturer’s test reports if it is a bought out item) enclosed</td>
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<tr>
<td>SL. NO.</td>
<td>DESCRIPTION</td>
<td>AS SPECIFIED</td>
<td>BIDDER’S OFFER</td>
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<td>---------</td>
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<tr>
<td>1.</td>
<td>Voltage Ratio</td>
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<td>2.</td>
<td>Rating in KVA</td>
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<td>3.</td>
<td>Full load current</td>
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<td>4.</td>
<td>Efficiency at 75 ºC</td>
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<td></td>
<td>a) Unity PF</td>
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<td></td>
<td>b) 0.8 PF</td>
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<td></td>
<td>(i) 125% load</td>
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<td>(ii) 100% load</td>
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<td>(iii) 75% load</td>
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<td>(iv) 50% load</td>
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<td>(v) 25% load</td>
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<td>c) Max. efficiency</td>
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<td>5.</td>
<td>Regulation at:</td>
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<tr>
<td></td>
<td>a) Unity PF</td>
<td></td>
<td></td>
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<td></td>
<td>b) 0.8 PF at ºC</td>
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<td>6.</td>
<td>Flash test:</td>
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<tr>
<td></td>
<td>a) HV 28 KV / 50 Hz for 1 min.</td>
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<td></td>
<td>b) LV 3 KV / 50 Hz for 1 min.</td>
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<tr>
<td>7.</td>
<td>Over potential test double voltage &amp; Double frequency for 1 min</td>
<td></td>
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<tr>
<td>8.</td>
<td>Impulse Test</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td>Weight content of:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a) Core lamination</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>b) Windings (min.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>c) Tank &amp; fittings</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>d) Oil</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>e) Oil Quantity (min.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>f) Total weight</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td>Oil data:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a) Quantity for first filling (min.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>b) Grade of oil used</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>c) Maker’s name</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>d) BDV at the time of filling</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.</td>
<td>Transformer:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a) Over length x Breath x Height</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>b) Tank length x Breath x Height</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>c) Thickness of plate for:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(i) Side plate (min.)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
12. **Size of the wire used:**
   a) **HV**
      i) SWG/min
      ii) Dia
      iii) Area (sq mm)
   b) **LV**
      i) Strip size
      ii) No. of conductors in parallel
      iii) Total area of cross section (sq mm)

13. **Is the name plate gives all particulars as per tender**

14. **Particulars of bushings HV / LV**
   a) Maker’s Name
   b) Type IS: 3347 / IS: 1180
   c) Rating as per IS
   d) Dry flash over voltage KV at 50 C/s
   e) Wet flash over voltage KV at 50 C/s

15. **Details of tapping provided on HV side**
<table>
<thead>
<tr>
<th>SL. NO.</th>
<th>DESCRIPTION</th>
<th>UNIT</th>
<th>AS SPECIFIED</th>
<th>BIDDER’S OFFER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Core Grade</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Core Dia.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Gross Core area</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Net core area</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Flux Density</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Weight of Core</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>Loss per Kg. of Core at the specified flux density</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>Core window height</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td>Centre to centre distance of the core</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td>No. of LV turns</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.</td>
<td>No. of HV turns</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.</td>
<td>Size of LV conductor bare / covered</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.</td>
<td>Size of HV conductor bare / covered</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14.</td>
<td>No. of parallels</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15.</td>
<td>Current density of LV winding</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16.</td>
<td>Current density of HV winding</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17.</td>
<td>Weight of the LV winding for transformers</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18.</td>
<td>Weight of the HV winding for transformers</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19.</td>
<td>No. of LV coils / phase</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20.</td>
<td>No. of HV coils / phase</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21.</td>
<td>Height of LV winding</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22.</td>
<td>Height of HV winding</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>23.</td>
<td>ID/OD of LV winding</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24.</td>
<td>ID/OD of HV winding</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25.</td>
<td>Size of the duct in LV winding</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>26.</td>
<td>Size of the duct in HV winding</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>27.</td>
<td>Size of the duct between HV &amp; LV winding</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>28.</td>
<td>HV winding of LV clearance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>29.</td>
<td>LV winding of tank clearance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30.</td>
<td>Calculated impedance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>31.</td>
<td>Calculated impedance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>32.</td>
<td>HV to earth Creepage distance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>33.</td>
<td>LV to earth Creepage distance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>34.</td>
<td>Winding materials</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a) HV</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>b) LV</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**TENDER NOTICE No.: WESCO Utility/ DEPOSIT/ 25 KVA DTR /03 Date: 06.07.2015**

### Annexure- V

**WESCO**

**Name of Bidder:** ________________________________

**Price for each Unit**

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Item Description</th>
<th>Unit</th>
<th>Quantity</th>
<th>Unit Ex-Works Price (Rs.)</th>
<th>Unit Packing &amp; Forwarding Charges (Rs.)</th>
<th>Unit Excise Duty with Education Cess (Rs.)</th>
<th>Unit Sales Tax / VAT (Rs.)</th>
<th>Unit Freight &amp; Insurance and other local costs incidental to delivery (Rs.)</th>
<th>Unit Entry Tax if any (Rs.)</th>
<th>Total Price Inclusive of Taxes &amp; Duties (Rs.)</th>
<th>Total Landing Price Inclusive of Taxes &amp; Duties (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>25 KVA 11/0.433 KV 3 Star rated DTR</td>
<td>Nos.</td>
<td>50</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(5+6+7+8+9+10)</td>
<td></td>
<td>12 = 4 x 11</td>
<td></td>
</tr>
</tbody>
</table>

Total amount in Words: Rupees ____________________________ only

Signature of Bidder along with Seal & date

**Note:**

1. Any column left blank shall be treated as NIL / Inclusive of.
2. Unit price under Column-11 is inclusive of all.
3. In case of discrepancy between unit price and total price, the unit price shall prevail over the total price.
ANNEXURE VI (A)
TECHNICAL DEVIATION FORMAT

<table>
<thead>
<tr>
<th>Clause No.</th>
<th>Prescribed as per Tender Specification</th>
<th>Deviation in the bidder’s offer</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Bidder’s Signature with Seal.

N.B:
The bidder has to mention all technical deviations in his offer which differs from the Technical Requirement of this Tender in above format. Deviations not mentioned in above format but mentioned in any other format or in any other part of the offer document shall not be considered as deviation and the bidder shall be deemed to have accepted our technical requirement without deviation.
## ANNEXURE VI (B)

**COMMERCIAL DEVIATION FORMAT**

<table>
<thead>
<tr>
<th>Clause No.</th>
<th>Prescribed as per Tender Specification</th>
<th>Provided in the bidder’s offer</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Bidder’s Signature with Seal**

N.B.:
The bidder has to mention all commercial deviations in his offer which differs from the Commercial Requirement of this Tender in above format. Deviations not mentioned in this format but mentioned in any other format or in any other part of the offer document shall not be considered as deviation and the bidder shall be deemed to have accepted our commercial requirement without deviation.
ANNEXURE – VII

Format for Consortium Agreement

(On non-judicial stamp paper of appropriate value to be purchased in the name of executants companies or as required by the jurisdiction in which executed)

This Consortium Agreement executed on this ................. day of ...........................................Two Thousand................................. M/s ..................................................a Company (SSI Unit) incorporated under the companies Act – 1956 ..........................................................and having its registered office at ............................................(hereinafter called the “Lead Member/First member” which expression shall include its successors); and

M/s ..................................................a company (SSI Unit) incorporated under the Companies Act – 1956 ..........................................................and having its registered office at ............................................(hereinafter called the “Second Member” which expression shall include its successors)and

M/s. ..................................................a company (SSI Unit) incorporated under the companies Act- 1956..........................................................and having its registered office at ....................... (hereinafter called the “Fourth Member” which expression shall include its successors)

The Lead Member/First Member, the Second Member, the Third Member and the Fourth Member shall collectively hereinafter be called as the “Consortium Members” for the purpose of submitting a bid proposal to Western Electricity Supply Company of Odisha Ltd. (WESCO) (Hereinafter referred to as DISCOM), being a Company incorporated/Constituted under the Companies Act, 1956 having its office at Burla/Sambalpur - 751015, India (hereinafter called the “Purchaser”) in response to the invitation of bids (hereinafter called as “Tender Notice No..........” Document) Dated ................. for supply of Materials/Equipments (hereinafter called as “the Transaction”).

WHEREAS Clause-6.1.2 of the Invitation for Bids (IFB), stipulates that Two or more Local SSI Units having been manufacturers of tender item(s) as per this tender specification, provided they fulfill the following eligible criteria;

a) They should have legally valid consortium agreement as per the prescribed format for the purpose of participation in the bidding process. The total no of a consortium shall be limited to four members.

b) All members of the Consortium should be the eligible manufacturer(s) of the materials / equipments tendered.
c) Each member should have valid statutory license to use BEE three star or more level Certification/Type tested report for the tendered materials/equipments conducted within last five years as applicable for the tender.

d) Consortium as a whole shall meet the qualifying norms specified in the tender, they participate.

e) The lead member of the Consortium should meet at least 50% of the qualifying norms in respect of the supply experience.

f) Besides the lead member, other member(s) of the Consortium should meet at least 15% of the qualifying norms in respect of the supply experience.

g) All the Consortium member(s) shall authorize the lead partner by submitting a power of Attorney as per the prescribed format duly signed by the authorized signatories. The lead partner shall be authorized to receive instructions for and on behalf of all partners of the Consortium and entire execution of the contract including receipt of payment exclusively done through the lead partner.

h) The Consortium and its members shall be jointly and severally responsible and be held liable for the purpose of guaranteed obligation and any other matter as required under the contract.

i) Any member of the Consortium member(s) shall not be eligible either in an individual capacity or part of any other consortium to participate in the tender, where the said consortium participates.

j) The prescribed formats for Consortium Agreement (Annexure – VII) and Power of Attorney (Annexure – VIII) are provided in the tender specification as enclosures.

AND WHEREAS the members of the Consortium strictly comply the eligible criteria of the CLAUSE -6.1.2 of the Invitation for Bids (IFB) as stipulated above, AND WHEREAS bid has been proposed to be submitted to the purchaser vide bid by Lead Member based on this CONSORTIUM agreement between all the members, signed by all the members.

NOW THIS INDENTURE WITNESSETH AS UNDER:

In consideration of the above premises, in the event of the selection of Consortium as successful bidder, all the Parties to this Consortium Agreement do hereby agree abide themselves as follows:

1. M/s ………………………….shall act as Lead Member for and on behalf of Consortium Members. The said Consortium members further declare and confirm that they shall jointly and severally be bound and shall be fully responsible to the Purchaser for the design, manufacture, supply, and successful performance of the materials /equipment, obligations under the supply contract under Agreement(s) submitted/executed by the Lead Member.

2. Despite any breach by the Lead Member or other member(s) of the CONSORTIUM agreement, the Member(s) do hereby agree and undertake to ensure full and effectual an successful performance of the contract with Purchaser and to carry out all the obligations and responsibilities under the said Contract in accordance with the requirements of the Contract.
3. If the Purchaser suffers any loss or damage on account of any breach of the Contract or any shortfall in the performance in meeting the performance guaranteed as per the specification in terms of the Contract, the Member(s) of these presents undertake to promptly make such loss or damage caused to the purchaser, on its demand without any demur. It shall not be necessary or obligatory for the purchaser to proceed against Lead member to these presents before proceeding against or dealing with the other members. The obligation of each of the member is absolute and not independent of the consortium or any member.

4. The financial liability of the members of this CONSORTIUM agreement to the Purchaser, with respect to any of the claims arising out of the performance or non-performance of the obligations set forth in the said CONSORTIUM agreement, read in conjunction with relevant conditions of the contract shall, however, not be limited in anyway so as to restrict or limit the liabilities of any of the members of the CONSORTIUM agreement. The liability of each member is absolute and not severable.

5. It is expressly understood and agreed between the members to this CONSORTIUM agreement that the responsibilities inter se amongst the members shall not in any way be a limitation of joint and several responsibilities and liabilities of the Members to the Purchaser. It is clearly understood that the lead member shall ensure performance under the agreement(s) and if one or more Consortium members fail to perform its/their respective obligations under the agreements, the same shall be deemed to be a default by all the Consortium Members. It will be open for the purchaser to take any steps, punitive and corrective action including the termination of contract in case of such default also.

6. This CONSORTIUM agreement shall be construed and interpreted in accordance with the laws of India and shall be subjected to exclusive jurisdiction within Burla/Sambalpur in all matters arising there under.

7. In case of an award of a Contract, all the members to the CONSORTIUM agreement do hereby agree that they shall be jointly and severally responsible for furnishing a contract performance security from a bank in favour of the purchaser in the forms acceptable to purchaser for value of 10% of the Contract price. It is also hereby agreed that the lead member shall, on behalf of the CONSORTIUM submit the contract performance security in the form of an unconditional irrecoverable Bank guarantee in the prescribed format and as per terms of the contract.

8. It is further agreed that the CONSORTIUM agreement shall be irrevocable and shall form an integral part of the Contract, and shall continue to be enforceable till the Purchaser discharges the same. It shall be effective from the date first mentioned above for all purposes and intents.

9. Capitalized terms used but not defined herein shall have the meaning as assigned to them to the Tender Documents and/or the agreements.

~ 79 ~
10. In case of any dispute amongst the members of the Consortium, purchaser shall not be in any way liable and also the consortium members shall not be absolved from the contractual obligation in any manner.

**IN WITNESS WHEREOF** the Members to the CONSORTIUM agreement have through their authorized representatives executed these presents and affixed Common Seals of their companies, on the day, month and year first mentioned above.

1. Common Seal of <…………………..> For Lead/First Member
   Has been affixed in my/our presence
   Pursuant to the Board of Director’s resolution dated……………… (Signature of authorized representative)

   Name …………… Signature……………………
   Designation …………………

   Name…………………………… Common Seal of the company
   Designation ………………………………………

2. Common Seal of <…………………..> For Second Member
   Has been affixed in my/our presence Pursuant to the Board of Director’s resolution dated……………… (Signature of authorized Representative)

   Name ……………....
   Signature……………………
   Designation …………………

   Name…………………………… Common Seal of the company
   Designation……………………..

3. Common Seal of <…………………..> For Third Member
   Has been affixed in my/our presence
   Pursuant to the Board of Director’s resolution dated……………… (Signature of authorized representative)
   Name…………………………… Common Seal of the company
   Designation……………………..

4. Common Seal of <…………………..> For Third Member
   Has been affixed in my/our presence
   Pursuant to the Board of Director’s resolution dated……………… (Signature of authorized representative)
   Name…………………………… Common Seal of the company
   Designation……………………..
WITNESSES

1. ........................................
   (Signature)

   Name ................................
   (Official address)

2. ........................................
   (Signature)

   Name ................................
   (Official address)
ANNEXURE – VIII
FORM OF POWER OF ATTORNEY FOR CONSORTIUM

(On Non-Judicial Stamp Paper of Appropriate value to be purchased in the Name of CONSORTIUM)

KNOW ALL MEN BY THESE PRESENTS THAT WE, the Members whose details are given hereunder………………..have formed a CONSORTIUM and having our Registered Office (s)/Head Office (s) at ………………………………………. (hereinafter called the ‘Consortium’ which expression shall unless repugnant to the context or meaning thereof, include its successors, administrators and assigns) do hereby constitute, nominate and appoint M/s ……………………………. A company incorporated under the laws of ………………. and having its Registered/Head office at ………………. as our duly constituted lawful Attorney (hereinafter called “Lead Member”) to exercise all or any of the powers for supply ………………………………………. for which bids have been invited by the Purchaser namely Western Electricity Supply Company of Odisha Ltd. (WESCO), to undertake the following acts:

(i) To submit proposal, participate and negotiate in respect of the aforesaid Bid – Specification of the Purchaser on behalf of the “Consortium”
(ii) To negotiate with Purchaser the terms and conditions for award of the contract pursuant to the aforesaid Bid and to sign the contract with the Purchaser for and on behalf of the “Consortium”
(iii) To do any other act or submit any document related to the above.
(iv) To receive, accept and execute the contract for and on behalf of the “Consortium”.
(v) To submit the contract performance security in the form of an unconditional irrecoverable Bank guarantee in the prescribed format and as per terms of the contract.

It is clearly understood that the Lead Member shall ensure performance of the contracts(s) and if one or more Member fail to perform their respective portion of the contracts (s), the same shall be deemed to be a default by all the members.

It is expressly understood that this power of Attorney shall remain valid binding and irrevocable till completion of the defect or liability period in terms of the contract.

The CONSORTIUM hereby agrees and undertakes to ratify and confirm all the whatsoever the said Lead Member quotes in the bid, negotiates and signs the contract with the Purchaser and / or proposes to act on behalf of the CONSORTIUM by virtue of this Power of Attorney and the same shall bind the CONSORTIUM as if done by itself.

IN WITNESS THEREOF the members Constituting the CONSORTIUM as aforesaid have executed these presents on this …………….day of …………..under the Common Seal (s) of their Companies.
For and on behalf of the Members of CONSORTIUM

1. -----------------------------------------
2. -----------------------------------------

3. -----------------------------------------
4. -----------------------------------------

The Common Seal of the above Members of the CONSORTIUM:
The Common Seal has been affixed there unto in the presence of:

WITNESS

1. Signature…………………………
   Name………………………… Designation…………………………
   Occupation……………………

2. Signature…………………………
   Name………………………… Designation…………………………
   Occupation……………………
ANNEXURE-IX

Name of the Purchaser: -----------------------------
Tender Notice No: -----------------------------

Sir,

1. I / we, the undersigned do hereby declare that, I / we have never ever been blacklisted and / or there were no debarring actions against us for any default in supply of material / equipments or in the performance of the contract entrusted to us in any of the Electricity Utilities of India.

2. In the event of any such information pertaining to the aforesaid matter found at any given point of time either during the course of the contract or at the bidding stage, my bid/contract shall be liable for truncation / cancellation / termination without any notice at the sole discretion of the purchaser

Yours faithfully,

Signature of the bidder With seal

Place:
Date:

(This form shall be duly filled-up and signed by the bidder & submitted along with the original copy of the Bid.)
TENDER NOTICE No.: WESCO Utility/ DEPOSIT/ 25 KVA DTR /03 Date: 06.07.2015

ANNEXURE – X (A)

PROFORMA FOR BANK GUARANTEE FOR EARNEST MONEY DEPOSIT

(ON NON-JUDICIAL STAMP PAPER OF Rs.100/-)

Ref. Date Bank Guarantee No:

In accordance with invitation to Tender Notice No. ______ Dated ____ of Western Electricity Supply Company of Orissa Ltd. [herein after referred to as the WESCO] for the purpose of ________________ (name of the material) M/s. ________________ Address __________ wish/wished to participate in the said tender and as the Bank Guarantee for the sum of Rs._____ [Rupees ________ Valid for a period of ________ days (in words) is required to be submitted by the Bidder.

1. We, the __________________ (indicate the name of the bank) [herein after referred to as the Bank] at the request of M/s. ______________ [herein after referred to as the supplier (s)] do hereby unequivocally and unconditionally guarantee and undertake to pay during the above said period, on written request by WESCO an amount not exceeding Rs. ____________ to the WESCO, without any reservation. The guarantee would remain valid up to 4.00 PM of ____ __________ (date) and if any further extension to this is required, the same will be extended on receiving instructions from M/s. ___________ on whose behalf this guarantee has been issued.

2. We, the _______________ [indicate the name of the bank] do hereby further undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the WESCO starting that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the WESCO by reason of any breach by the said supplier(s) of any of the terms or conditions or failure to perform the said bid. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. __________ (in wards).

3. We, the ____________ bank undertake to pay the WESCO any money so demanded not Withstanding any dispute or disputes so raised by the supplier [s] in any suit or proceeding instituted/pending before any Court or Tribunal relating thereto, our liability under this agreement being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the supplier(s) shall have no claim against us for making such payment.

4. We, the __________ Bank (indicate the name of the bank) or our local branch at Burla / Sambalpur further agree that the guarantee herein contain shall remain in full
force and effect during the aforesaid period of ___________ days and it shall continue
to be so enforceable till all the dues of the WESCO under by virtue of the said Bid
have been fully paid and its claims satisfied or discharged or till WESCO certifies
that the terms and conditions of the said Bid have been fully and properly carried out by
the said Supplier [s] and accordingly discharges this guarantee. Unless a demand or
claim under this guarantee is made on us in writing on or before __________ (date) we
shall be discharged from all liability under this guarantee thereafter.

5. We, the _______________ Bank (indicate the name of the bank) or our local branch at
Burla / Sambalpur further agree that the WESCO shall have the fullest liberty without
our consent and without affecting in any manner our obligations here under to vary any
of the terms and conditions of the said Bid or to extend time of performance by the said
Supplier [s] from time to time or to postpone for any time or from time to time any of
the powers exercisable by the WESCO against the said supplier [s] and to forbear or
enforce any of the terms and conditions relating to the said bid and we shall not be
relieved from our liability by reason of any such variation, postponement or extension
being granted to the said Supplier [s] or for any forbearance act or omission on the part
of the WESCO or any indulgence by the WESCO to the said Supplier[s] or by any such
matter or thing whatsoever which under the law relating to sureties would but for this
provision, have effect of so relieving us.

6. This guarantee will not be discharged due to the change in the name, style and
constitution of the Bank or the supplier [s].

7. We, the _______________ Bank (indicate the name of the bank) or our local branch at
Burla / Sambalpur lastly undertake not revoke this Guarantee during its currency
except with the previous consent of the WESCO in writing.

8. We, the _______________ Bank further agree that this guarantee shall also be
irrevocable at our place of business at Burla / Sambalpur (Indicate detail address of
local branch with code no.) in the State of Odisha.

Dated __________ day of 2012.

Witness (Signature, names & address) For _______________ [Indicate the name
of the bank]
1. ___________________________ Power of Attorney No.: __________
2. Date: __________
SEAL OF BANK

The non-judicial stamp paper of worth Rs. 100/- shall be purchased in the name of the
bank, which has issued the bank guarantee.
Ref. No.: __________
Date: __________

Western Electricity Supply Company of Odisha Ltd. (WESCO)
Corporate Office: Burla – 768017
Ph. No. 0663-2432804, Fax: 0663-2432804

Dear Sirs,
Sub: Extension of Bank Guarantee No._________ for Rs. ___________ favouring yourselves expiring _________ on account of M/s. ______ in respect of contract No. _________ dated ________ 9herein after called original bank guarantee).

At the request of M/s. _________ we _______ bank branch office at having its head office at ________ do hereby extend our liability under the above mentioned guarantee No. _________ dtd. _________ for a further period of _________ years / months from ________ to expire on ________ except as provided above, all other terms & conditions of the original bank guarantee No. _________ dtd. _________ shall remain unaltered and binding.

Please treat this as an integral part of the original guarantee to which it would be attached.
Yours faithfully
For _________
Manager/Agent/Accountant
Power of Attorney No.: ___________
Date: __________

SEAL OF BANK

Note: The non-judicial stamp paper of worth Rs.100/- shall be purchased in the name of the bank, which has issued the bank guarantee.
TENDER NOTICE No.: WESCO Utility/ DEPOSIT/ 25 KVA DTR /03 Date: 06.07.2015

ANNEXURE- XI
FORMAT FOR PAST SUPPLY EXPERIENCE

NAME OF THE BIDDER:
Tender No.:

DETAILS OF PURCHASE ORDER(S) EXECUTED DURING FY 2012-13 to 2014-15

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>P.O. No.</th>
<th>Date</th>
<th>Order Quantity</th>
<th>Name of the Purchaser</th>
<th>Quantity Supplied during</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>FY: 12-13</td>
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</tr>
</tbody>
</table>

I/We certify as under:
1. The above information is true to the best of my / our knowledge and I / we undertake to produce the invoice details on demand.

2. In the event of any deviation found later on pertaining to any of the above information either during the course of contract or bidding stage, the bid/contract shall be liable for truncation/cancellation/termination without any notice at the sole discretion of the purchaser.

Signature of the bidder with seal

NOTE: Self attested photo copies of all Purchase Orders (all pages) need to be enclosed along with the above format