North Eastern Electricity Supply Company of Orissa Limited

TENDER SPECIFICATION FOR PROCUREMENT OF LT XLPE AB CABLE (FOR CAPEX PROGRAMME)

Tender Notice No. : CSO/CAPEX-NESCO/XLPE AB CABLE/13 Date: 05.04.2012

- DATE OF OPENING OF TENDER: 27.04.2012
- TIME: 11.30 A.M
- PLACE: Registered office of NESCO, WESCO & SOUTHCO, N1/22, Nayapalli, Bhubaneswar-15
North Eastern Electricity Supply Company of Orissa Ltd. (NESCO)

Registered Office:
N 1/22, IRC Village, Nayapalli, Bhubaneswar – 751015
Ph. No. 0674-2558737, Fax: 0674-2558343

TENDER NOTICE NO: -CSO/CAPEX-NESCP/XLPE AB CABLE/13
Dt. 05.04.2012

Material Name: LT XLPE ARIAL BUNCHED CABLE

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TENDER NOTICE

Tender Notice No: CSO/CAPEX-NESCO/XLPE AB CABLE /13 Dt. 05.04.2012

For and on behalf of the North Eastern Electricity Supply Company of Orissa Ltd. (NESCO), 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 notice).

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 North Eastern Electricity Supply Company of Orissa Ltd. payable at Bhubaneswar. 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>Unit</th>
<th>Quantity</th>
<th>Cost of Tender Paper (Rs.)</th>
<th>EMD (Rs.in Lacs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>(3 x 50 + 1 x 35 + 1x 16) mm2</td>
<td>Kms</td>
<td>848</td>
<td>15,000/- + 5% VAT = 15,750.00</td>
<td>10.00</td>
</tr>
</tbody>
</table>

TIME SCHEDULES:-

1. Last Date & Time for selling of tender papers: 26.04.2012 up-to 5.00 P.M
2. Last Date & Time for submission of Tender: 27.04.2012 up-to 11.00 AM
3. Last Date & Time for Opening of Tender: 27.04.2012 at 11.30 AM

The intending bidders can also download the tender document from our website www.nescoodisha.com. However the bidder has to furnish along with his bid a Account Payee Bank Draft drawn on any Scheduled Bank in favour of North Eastern Electricity Supply Company of Orissa Ltd. payable at Bhubaneswar for the cost of the Tender Paper indicated above, 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 NESCO, the bids will be sold / received / opened up at the appointed time on the next working day. NESCO 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.nescoodisha.com.

(sd/-)
CAPEX CELL
SECTION – I

INVITATION FOR BIDS (IFB)
**INVITATION FOR BIDS (IFB)**

**FOR SUPPLY OF**

**LT XLPE ARIAL BUNCHE CABLE**

**(COMPETITIVE BIDDING)**

**(Tender Notice No. CSO/CAPEX-NESCO/XLPE AB CABLE /13 Dt. 05.04.2012)**

**SECTION –I**

1.0 For and on behalf of the NESCO, 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 ISI marked LT XLPE AB Cable.**

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 **27.04.2012 up-to 11.00 AM.**

3.0 NESCO will not be responsible for any costs or expenses incurred by bidders in connection with the preparation and delivery of bids.

3.1 NESCO 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><strong>26.04.2012 up-to 5.00 PM</strong></td>
</tr>
<tr>
<td>Submission of Tenders</td>
<td><strong>27.04.2012 up-to 11.00 AM</strong></td>
</tr>
<tr>
<td>Opening of Tenders</td>
<td><strong>27.04.2012 at 11.30 AM</strong></td>
</tr>
<tr>
<td>Required Quantities of Materials:-</td>
<td>As indicated at clause – 5 below.</td>
</tr>
<tr>
<td>Completion of the delivery</td>
<td>4 months from the date of issue of Purchase Order as per delivery schedule.</td>
</tr>
<tr>
<td>Cost of Tender Paper (Non-Refundable)</td>
<td>Rs. 15,750.00 (Rupees Fifteen Thousand Seven Hundred Fifty only) in shape of Cash/ Account Payee demand draft issued in favour of the North Eastern Electricity Supply Company of Orissa Ltd. payable at Bhubaneswar only.</td>
</tr>
</tbody>
</table>

**NB: Cost of Tender shall be fully exempt for the local SSI**
5.0 SCHEDULE OF REQUIREMENTS & DELIVERY:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Description of material</th>
<th>Unit</th>
<th>Qty.</th>
<th>Delivery quantity from date of issue of the Order</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Within 60 days</td>
</tr>
<tr>
<td>1</td>
<td>(3 x 50 + 1 x 35 + 1x 16) mm²</td>
<td>Kms</td>
<td>848</td>
<td>300</td>
</tr>
</tbody>
</table>

Note: NESCO may re-schedule the due date of delivery as per their requirement.

6.0 QUALIFICATION OF BIDDERS:

6.1 Criteria for qualification:

6.1.1 Technical:

a) The bidder should be a manufacturer of ISI marked LT XLPE AB Cable for which he submits his offer.

b) The bidder has to quote for at least 50% of the tendered quantity of the material covered under this notification. The bidder should have supplied XLPE AB Cables 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 (all pages) executed successfully for the relevant years and abstract thereof in the enclosed format (Annexure –XI) 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 & the drawings of the offered Materials dully approved by the Type Testing Agency shall not be considered for evaluation.

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

f) NESCO reserves the right to waive minor deviation, if they do not materially affect the capacity of the bidder to perform the contract.
6.1.2 **Financial:**

The minimum average annual turnover of the intending bidder should not be less than as mentioned below (for 100% tender quantity) during best three financial years out of immediate past 5 financial years.

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Name of Materials</th>
<th>Minimum qualifying requirement for 100% Tender Quantity in Rs. Crores</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ISI Marked XLPE AB Cable (3 x 50 + 1 x 35 + 1x 16) mm2</td>
<td>20.00 Cr.</td>
</tr>
</tbody>
</table>

NB: 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 and 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.
6.1.4. **Documentation:**

6.1.4.1. Bidder shall furnish self attested 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. Self Attested power of attorney / Board Resolution of the authorized signatory of the bid.

6.1.4.3. Bidders shall submit self attested copy of their audited financial Accounts 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 Accounts from the date of its incorporation should be furnished.

6.1.4.4. Self attested copies of Purchase orders (all pages) 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:-

CAPEX CELL,
Registered Office of NESCO, WESCO &SOUTHCO,
N 1/22, IRC Village, Nayapalli,
Bhubaneswar – 751015,
Ph. No. 0674-2558737, 3254109 Fax: 0674- 2558343,
Email: capex@orissadiscoms.com
SECTION –II

INSTRUCTION TO BIDDERS (ITB)
SECTION –II

INSTRUCTION TO BIDDERS (ITB)

1. SOURCE OF FUNDS:

1.1 NESCO hereinafter referred to as the “Purchaser” is desirous of procurement of materials for strengthening and improvement of distribution network under NESCO from the funds available under CAPEX Programme of Govt. of Odisha.

2. 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. 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 him that documents are complete in all respects. Intimation of any discrepancy/ doubt shall be sent to the NESCO 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. 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. 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. **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. **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. **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 & XI) 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.**

(c) Following Documentary evidence establishing in accordance with Clause-29, ITB, that the Bidder is qualified to perform the Contract if the Bid is accepted;

(i) Self attested copies of Purchase Orders (all pages) 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) Self attested copies of Type Test Reports from CPRI or NABL Accredited Testing Laboratory for the offered equipments along with the copies of drawings duly approved by the Type Testing Agency for the tests conducted not before 5 years from the date of opening of Bids.

(iv) Self attested copies of Profit & Loss Accounts & Audited Balance sheet indicating Turnover for best 3 financial years out of last 5 financial years.

(d) Self attested copy of 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.

(e) Requisite Cost of Tender Document as per clause 4 of Section –I, IFB in shape of account payee Bank draft from a Scheduled Bank in favour of “The North Eastern Electricity Supply Company of Orissa Ltd.” Payable at Bhubaneswar 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. 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 North Eastern Electricity Supply Company of Orissa Ltd. issued by any Scheduled bank payable at Bhubaneswar.

OR

Bank Guarantee in favour of “North Eastern Electricity Supply Company of Orissa Ltd.” issued by any Scheduled bank encashable at local branch at Bhubaneswar only. The BG shall be strictly as per the format enclosed at Section – V, Annexure – X and should be valid for minimum 210 days from the date of opening of Technical bid.

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 seller fails to supply the materials/equipment during the contractual delivery period.

10. **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. **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. **BID CURRENCIES:**

12.1 Prices shall be quoted in Indian Rupees Only.

13. **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. **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. **ALTERNATIVE BIDS:**
15.1 Bidders shall submit Bids, which comply with the Tender Documents. Alternative bids shall not be considered for evaluation.

16. 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. 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 & XI 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:

CAPEX CELL, Registered Office of NESCO, WESCO &SOUTHCO: N 1/22, IRC Village, Nayapalli, Bhubaneswar – 751015

b) Bear the Project name as: “Design, Manufacture, Testing, Inspection and Supply of LT XLPE AB CABLE as per Schedule of Requirement in Section-I) – Notice No. CSO/CAPEX-NESCO/XLPE AB CABLE /13 Dt. 05.04.2012.

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. **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 11 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. **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. **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. **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. **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. **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 **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:

   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.

   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.

25.3 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.
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 price (L1) of more than one responsive bidder (s) is 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 .... bidder in sequence to match L1 price (Landed cost).

CONTACTING THE PURCHASER:

From the time between Bids 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.

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.

THE PURCHASER’S RIGHT TO ACCEPT ANY BID AND TO REJECT ANY OR ALL BIDS OR TO RELAX ANY TERMS AND CONDITIONS:

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.

In the interest of work, the Purchaser reserves the right to relax any terms and conditions without affecting the quality & price of the equipments.

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.

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.

LETTER OF INTENT / NOTIFICATION OF AWARD:

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 any Scheduled Bank in favour of the Purchaser encashable at Bhubaneswar 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.

30.0. 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 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:

1.01 All the Bids shall be prepared and submitted in accordance with these instructions.

1.02 Bidder shall bear all costs associated with the preparation and delivery of its Bid, and the Purchaser will in no case shall be responsible or liable for these costs.

1.03 The Bid should be submitted by the Bidder in whose name the bid document has been issued and under no circumstances it shall be transferred / sold to the other party.

1.04 The Purchaser reserves the right to request for any additional information and also reserves the right to reject the proposal of any Bidder, if in the opinion of the Purchaser, the data in support of Tender requirement is incomplete.

1.05 The Bidder is expected to examine all instructions, forms, terms & conditions and specifications in the Bid Documents. Failure to furnish all information required in the Bid Documents or Submission of a Bid not substantially responsive to the Bid Documents in every respect may result in rejection of the Bid. However, the Purchaser’s decision in regard to the responsiveness and rejection of bids shall be final and binding without any obligation, financial or otherwise, on the Purchaser.

2.0 DEFINITION OF TERMS:

2.01 NESCO shall mean the “Purchaser” on whose behalf this bid enquiry is issued by its authorized representative / officers.

2.02 “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.

2.03 “Site” shall mean the Electricity Distribution Area of the Purchaser.

2.04 “Specification” shall mean collectively all the terms and stipulations contained in those portions of this bid document known as Instruction to Bidder, Bid form and other forms as per 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.

2.05 “Letter of Intent” shall mean the official notice issued by the Purchaser notifying the Contractor that his proposal has been accepted and it shall include amendments thereto, if any, issued by the Purchaser. The “Letter of Intent” issued by the Purchaser shall be binding on the “Contractor”.

2.06 “Month” shall mean the calendar month and “Day” shall mean the calendar day.

2.07 “Codes and Standards” shall mean all the applicable codes and standards as indicated in the Technical Specification.

2.08 “Offer Sheet” shall mean Bidder’s firm offer submitted to Purchaser in accordance with the specification.

2.09 “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:

3.01 Contract Documents: The Specification, terms and conditions of the contract shall consist solely of these Tender conditions and offer sheet.

3.02 Priority: Should there be any discrepancy between any terms here to and any term of the offer sheet, the terms of this tender document shall prevail.

4.0 SCOPE OF WORK:

4.01 The “Scope of Work” shall be on the basis of Bidder’s responsibility, completely covering the obligations, responsibility and workmanship, provided in this Bid Enquiry whether implicit or explicit.

4.02 The Purchaser reserves the right to vary the quantity i.e increase or decrease, at the time of placing order or during project execution.

4.03 All relevant drawings, data and instruction manuals and other necessary inputs shall be under the scope of contract.

5.0 GENERAL REQUIREMENTS:

5.01 The seller shall supply, deliver best quality Goods/Materials/Equipments & conduct the testing at their works of highest standards.

5.02 The seller shall be responsible & shall comply with the provisions of all statutory acts i.e Electricity Act 2003, Indian Electricity Rules 1956, Income Tax Act-1961 etc.

6.0 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 at least 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.

vii) Besides the above, the Third Party Independent Evaluation Agency (TPIEA) engaged by GRIDCO 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:

i) Name of the manufacturer:

ii) Standing of the firm for manufacture of equipment/material quoted:

iii) Description of quoted materials/equipment supplied during the last 3 (three) years with the name (s) of the party (s) to whom supplies were made.

iv) Testing facilities at manufacturer’s work with copies of calibrated certificates of the major testing equipment.

v) If the manufacturer is having collaboration with other firm(s), details regarding the same:
vi) A list of Purchase orders, executed during the last three years along with user’s certificate and copies of Purchase orders.

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 any scheduled Bank encashable at Bhubaneswar 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:

15.01 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:

16.01 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.**

16.02 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:

19.01 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:

21.01 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.

21.02 The total amount of penalty for delay under the contract will be subject to a maximum of **five percent (5%)** of the contract price.

21.03 The Purchaser may, without prejudice to any method of recovery, deduct the amount for such damages from any amount due or which may become due to the seller or from the Performance Bank Guarantee or file a claim against the seller.
22. **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. **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. **COMMISSIONING SPARES:**

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

25. **DISPUTE RESOLUTION & JURISDICTION OF CONTRACT:**

25.01 Any dispute arising out of this contract shall be referred to the MD/CMD, OPTCL who shall decide the case as sole arbitrator.

25.02 For the purpose of dispute resolution, this agreement shall be governed by the provision of Arbitration & Conciliation Act, 1996.

25.03 All disputes shall be subject to exclusive jurisdiction of the Court at Bhubaneswar and Writ jurisdiction of Hon’ble High Court of Odisha at Cuttack.

26. **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:

(a) Seller fails or refuses to pay any amount due under the Contracts.

(b) 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.

(c) Seller becomes insolvent or unable to pay its debts when due, or commits any act of bankruptcy, such as filing any petition in any bankruptcy, winding-up or reorganization proceeding, or acknowledges in writing its insolvency or inability to pay its debts; or the Seller’s creditors file any petition relating to bankruptcy of Seller;

(d) Seller otherwise fails or refuses to perform or observe any term or condition of the Contract and such failure is not remediable or, if remediable, continues for a period of 30 days after receipt by the Seller of notice of such failure from Purchaser.

27. **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; Recover any losses and / or additional expenses, Purchaser may incur as a result of
ii) Seller’s default.

28.0 **FORCE MAJEURE:**

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 event to the other party. The affected party shall make every reasonable effort to remove or remedy the cause of such Force majeure or mitigate its effect as quickly as possible. If such occurrence results in the suspension of all or part of the work for a continuous period of more than 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 **EMBOSSING / PUNCHING / CASTING**

29.1 The all equipments and materials supplied under the CAPEX Programme shall bear distinct mark of “Name of the Purchaser, GoO, CAPEX Programme, PO Order No. & Date” by a way of embossing / punching / casting etc. This should be clearly visible to naked eye.
30 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 CAPEX Programme. The Purchaser in term shall indemnify the GoO & GRIDCO.
SECTION – IV

TECHNICAL SPECIFICATIONS

FOR

LT XLPE ARIAL BUNCHED CABLES

(CAPEX PROGRAMME)
TECHNICAL SPECIFICATION

(For supply of LT XLPE AB Cables)

Part-1:

1. SCOPE:

This specification covers the design, manufacturing, testing, supply, delivery and performance requirements of LV overhead ISI marked Aerial Bunched Cable (ABC) of different sizes indicated in our Schedule of Requirements for use in the LV network of NESCO.

The materials offered shall have been successfully type tested and the design shall have been in satisfactory operation for a period of not less than two years 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.

However where the bidder offers similar but not identical material but higher size to that which has been type tested, the difference shall be stated in Test Certificate Schedule. The purchaser shall adjudge whether to accept or reject the offered material and type test data presented.

The scope of supply includes the provision of type tests. Rates for type tests shall be given in the appropriate price schedule of the bidding document and shall be considered for evaluation. The purchaser reserves the right to waive type tests as indicated in the section on Quality Assurance, Inspection and Testing in this specification.

The Aerial Bunched Cable shall conform in all respects to highest standards of engineering, design, workmanship, this specification and the latest revisions of relevant standards at the time of offer and the Purchaser shall have the power to reject any work or material, which, in his judgment is not in full accordance therewith.
2. **STANDARDS:**

Except where modified by this specification, the Aerial Bunched Cable shall be designed, manufactured and tested in accordance with the latest editions of the following standards.

<table>
<thead>
<tr>
<th>IES/ISO</th>
<th>Indian Standard</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>IEC: 1089</td>
<td>IS: 398/1994</td>
<td>Round wire concentric lay</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Overhead electrical</td>
</tr>
<tr>
<td></td>
<td>IS: 398(Part-4)/1994</td>
<td>Stranded Conductors.</td>
</tr>
<tr>
<td></td>
<td>IS: 398 (Part-4)/1994</td>
<td>All Aluminum Alloy</td>
</tr>
<tr>
<td></td>
<td>IS: 398(Part-4)/1994</td>
<td>Conductors, Quality</td>
</tr>
<tr>
<td></td>
<td>IS: 10810/1984</td>
<td>Conductors for insulated</td>
</tr>
<tr>
<td></td>
<td>IS: 10810/1984</td>
<td>Electric cables.</td>
</tr>
<tr>
<td>IEC: 502</td>
<td>IS: 7098/1998</td>
<td>XLPE Insulated PVC.</td>
</tr>
<tr>
<td></td>
<td>IS: 14255/1995</td>
<td>Sheathed power cables.</td>
</tr>
<tr>
<td></td>
<td>IS: 14255/1995</td>
<td>Aerial Bunched Cables for</td>
</tr>
<tr>
<td></td>
<td>IS: 14255/1995</td>
<td>working voltage up to and</td>
</tr>
<tr>
<td></td>
<td>IS: 14255/1995</td>
<td>including 1100 volts.</td>
</tr>
</tbody>
</table>

The Bidder may propose alternative standards, provided it is demonstrated that they give a degree of quality and performance equivalent to or better than the referenced standards. The purchaser shall adjudge whether to accept or reject any standards.

The Bidder shall furnish a copy of the alternative standard proposed along with his bid. If the alternative standard is in a language other than English, an English translation shall be submitted with the standard.

In case of conflict the order of the precedence shall be (1) IEC or ISO standards, (2) Indian Standards, (3) Other alternative standards. This list is not to be considered exhaustive and reference to a particular standard or recommendation in this specification does not relieve the Contractor or the necessity of providing the goods complying with other relevant standards or recommendation.
3.0 **SERVICE CONDITIONS:**

The service conditions shall be as follows:

- Maximum altitude above sea level 500m
- Maximum ambient air temperature 50°C
- Maximum daily average ambient air temperature 35°C
- Maximum ambient air temperature 5°C
- Maximum temperature attainable by an object exposed to sun 60°C
- Maximum yearly weighted average ambient temperature 32°C
- Maximum relative humidity 100%
- Average number of thunderstorm days per annum 70
- Average number of rainy days per annum 120
- Average annual rainfall 150cm
- Wind pressure as per IS:5613(Part-I/Sec.I) 1985

<table>
<thead>
<tr>
<th>Wind Zones IS:5613 Part-I/Sec-I</th>
<th>Light</th>
<th>Medium</th>
<th>Heavy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terrain Category</td>
<td>100 Kg/m²</td>
<td>150 Kg/m²</td>
<td>200 Kg/m²</td>
</tr>
</tbody>
</table>

Environmentally, the region where the work will take place includes coastal areas, subject to high relative humidity, which can give rise to condensation. Onshore winds will frequently be salt laden. On occasions, the combination of salt and condensation may create pollution conditions for outdoor insulators.

Therefore, outdoor material shall be designed and protected for use in exposed, heavily polluted salty corrosive and humid coastal atmosphere.

4. **SYSTEM CONDITIONS:**

The materials shall be suitable for installation in supply systems of the following characteristics.

- Frequency 50Hz
- Nominal System Voltage 400/230V
- Maximum System Voltage LV System 440/250 V
- Minimum LV Voltage 370 V
- Power frequency one minute withstand (set & dry) 2KV
- Neutral Earthing arrangement LV System Solidly earthed
5.0 GENERAL/TECHNICAL

The design of Aerial Bunched Cable offered shall comprise a compacted, standard, hard drawn H2 / H4 grade aluminum phase conductor as applicable under IS-8130 / 84 with cross linked polyethylene (XLPE) insulation 0.65 to 1.1. KV class, having of carbon black content 2.5% ± 0.5%.

The sizes and number of cores required are:
- 3x50mm² + 1x35mm² + 1x16mm² (catenaries type, will be called 3x50mm² + 1x35mm²)

The type of Bunched Cables shall be three phase and street lighting insulated bundled. All Aluminum Conductors combined with a neutral and catenaries (bare) which shall be of heat treated aluminum magnesium silicon alloy wires containing approximately 0.5% each of magnesium and silicon respectively. The catenaries must have an ultimate tensile stress of not less than that specified in the table of technical requirements.

The Bidder shall specify the standard to which this bundle shall be manufactured.

The conductor bundle offered shall be designed to meet the requirements set out in this specification taking note of safety factors pertaining to conductor or catenary tensioning and NESCO specification: General Technical Requirements for LV overhead lines.

However, a bid of Aerial Bunched Cables shall not be considered, unless it is accompanied by a list of all special tools and equipments necessary to complete the installation.

6.0 CONDUCTORS:

(a) The phase & street light conductors shall be of multi-stranded aluminum of compacted circular cross section. The aluminum shall comply with IS 8130:1984. The messenger conductor shall be of multi-stranded Aluminum Alloy conforming to IS 398 (Part 4) – 1994. In addition to meeting all requirement of relevant ISS the LT XLPE AB Cables supplied shall satisfy following general requirements.

FOR PHASE AND STREET LIGHT CONDUCTORS

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Specified Cross Sectional Area (mm²)</th>
<th>No. of Strands</th>
<th>Minimum Dia Of each strand in mm</th>
<th>Minimum. Over all dia. Of conducting part of the compacted conductor. (mm)</th>
<th>Maxm. D.C Resistance at 20 degree centigrade.( Ohm / Km)</th>
<th>Nominal Insulation thickness (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sl. No.</td>
<td>Phase Conductor Size of the LT AB Cable in mm²</td>
<td>Specified Cross Sectional Area of the Messanger Conductor (mm²)</td>
<td>No. of Strands</td>
<td>Nominal dia Of each strand (mm)</td>
<td>Appx. Over all dia. Of conducting part of the compacted conductor. (mm)</td>
<td>Maxm. D.C Resistance of the messenger at 20 degree centigrade.(Ohm / Km)</td>
</tr>
<tr>
<td>-------</td>
<td>-----------------------------------------------</td>
<td>---------------------------------------------------------------</td>
<td>----------------</td>
<td>---------------------------------</td>
<td>---------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>1</td>
<td>16</td>
<td>25</td>
<td>7</td>
<td>2.14</td>
<td>5.2</td>
<td>AS PER ISS / GTP</td>
</tr>
<tr>
<td>2</td>
<td>25</td>
<td>35</td>
<td>7</td>
<td>2.54</td>
<td>7.6</td>
<td>95</td>
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<tr>
<td>3</td>
<td>50</td>
<td>50</td>
<td>7</td>
<td>3.05</td>
<td>9.15</td>
<td>AS PER ISS/GTP</td>
</tr>
<tr>
<td>4</td>
<td>70</td>
<td>70</td>
<td>7</td>
<td>3.6</td>
<td>10.8</td>
<td>191.8</td>
</tr>
<tr>
<td>5</td>
<td>95</td>
<td>95</td>
<td>7</td>
<td>2.54</td>
<td>12.7</td>
<td>191.8</td>
</tr>
</tbody>
</table>

6.0 (b) The bidder must take required precaution to ensure that the average diameter of each strand of conductor shall be ascertained through physical measurement of dimensions of finished cables at ambient temperature during pre-dispatch inspection or / and verification at NESCO Store by consignee and the value so obtained shall have a tolerance limit with reference to the nominal diameter of each strand of conductor as stated in the tables above.

7.0 TOLERANCES:
The measurement of strand diameter of the finished AB Cable shall not be less 0.03mm for strands up to and including 3.00mm diameter. For strands above that size, measurement of strand diameter shall not be less than 1% of the nominal strand diameter.

For the purpose of checking compliance with the above requirement, the diameter shall be determined by two measurements at right angles taken at the same cross section. The physical measurement of strands shall be conducted after opening the strands of a finished AB Cable offered for inspection.

8.0 SPLICES IN WIRES:
Splices in Wires shall generally comply with requirements of IEC 1089.

The aluminum alloy rods may be spliced by cold pressure but welding before drawing provided the manufacturer can guarantee that the splice can develop 90% of the tensile strength of the un
sliced rod. Wires which break during stranding may be sliced by cold pressure butt-welding provided that:
No two splices in the completed conductor occur within 15m of each other and no two splices in any individual wire are less than 150m apart.
The splice shall be done with high skilled workmanship. The finished splice shall be smooth and at no point shall the cross sectional area be less than that of the un sliced wire.
Splicing of the alloy wires on the stranding machine in order to utilize lengths of wires on reels shall not be permitted.

9.0 STRANDING AND CORE LAY:
The conductor cores shall be stranded and the direction of lay must be as defined in IEC: 1089.

10.0 INSULATION:
The Aerial Bunched Cables shall be insulated for a voltage class of 0.65/1.1 KV and shall be capable of operating permanently at 1.2KV.

The insulation wall thickness shall be determined in accordance with Table-4 (Clause-7.2 and Clause 7.3) of IS: 14255/1995.

The insulating material shall be black and suitable to resist ultra violet radiation, salt laden sprays, chemical pollution, ageing effects, abrasion and mechanical shocks and mechanical and electrical stress at temperature up to 90°C in normal operation and 250°C under short circuit conditions per IEC: 502/1994.

The carbon black content in the XLPE insulation shall be 2.5% ± 0.5%

11.0 PHASE IDENTIFICATION:
The individual insulated conductors within a bundle shall be identified by means of longitudinal projections.

The three phase conductors shall be marked by one, two or three longitudinal projections, indicating the red, yellow and blue phases.

The projections shall have the following dimensions.
- The distance between the tips of two adjacent projections, where there is more than one, shall be between 1.0 and 1.5.
- The width of the projection at the base shall be 1.0mm; and
- The height of the projections shall be 0.5mm.

12.0 INSULATION MARKINGS:

Each individual conductor comprising a bundle shall have the range of non-erasable distinct markings listed below legibly printed on the insulation surface at one meter intervals. The embossing should be very clear & easily visible to naked eye.

- ISI Mark, IS 14255-95, Manufacturer’s B.I.S License No. legibly embossed on the insulation.
- Name of the Purchaser.
- G.o.O
- CAPEX Programme.
- P.O No. & Date
- Manufacturer’s trademark identification for example “UCXLPE50”
- Year of manufacture: last two digits are sufficient:
- Designation of conductor type
- Size: for example “3x50”
- Shape of conductor.
- Rated voltage class: 0.65/1.1KV
- Back up conductor identification: conductors with one, two and three projections shall be marked R, Y and B respectively. The conductor with no projection shall be marked N and
- The height of the printed lettering shall be not less than 20% of the overall diameter of the conductor

The markings shall be made in the sequence indicated above. Thus if the manufacturer were XY, the aerial bunched cable had been manufactured in 1994, size 3x50mm$^2$ + 1x35mm$^2$ + 1x16mm$^2$ with conductors of circular cross section and with a bundle of the self supporting type, manufactured to a recognized international standard then the core with two projections would be marked as follows:

XY-04-NFA4X50+1X16-r-m-0.65/1.1KV-Y
Where, N is the international standard, F indicates overhead cable, A is aluminum alloy conductor and 2X refers to XLPE insulation, ‘r’ means round core, ‘m’ self-supporting and ‘y’ the phase identification.

13.0 TWIST:

The direction of lay of the conductors comprising the bundle shall be left-handed and the lay ration shall comply with IEC: 1089.

With a bare catenaries configuration the insulated phase cables together with the street lighting cores shall be twisted round the neutral catenaries to form the ABC. This cable bundle is then strung directly onto the distribution poles supported by the catenaries with standard approved hardware.

14.0 CABLE DRUM LENGTH:

The cable shall be supplied in 250m or 500m or 1000m Drum Lengths as the case may be for different sizes of LT XLPE AB Cable.

15.0 TESTS:

15.1 General

Where not specified, all tests and test results shall conform to the requirements of IEC 502/1994 or IS 7098 (Part-I) 1998, IS 10810/1984, IS: 398(Part-IV) and IS: 14255/1955.

Unless expressly stated otherwise, the ambient temperature for routine tests as well as voltage tests shall be $20 \pm 15^\circ C$ and for all other tests be $20 \pm 15^\circ C$.

The frequency of the alternating test voltage shall be 49 Hz to 51Hz. The voltage wave form should be sinusoidal.

15.2 Type Tests

The test sample shall be 10m to 15m in length. All cores of the bundles shall be tested.

- Insulation resistance at ambient temperature.
- Insulation resistance at operating temperature.
- AC voltage test.
The insulation resistance test at ambient temperature shall be carried out in a water bath at ambient temperature.

The insulation resistance test at a operating temperature shall be conducted in a water bath at $90^\circ$C.

The longitudinal projections used for phase identification shall be ignored. The results of this test shall be used to calculate the volume receptivity and the results conform to the requirements of IEC: 502/1994 or IS 10810 (Part-43).

The AC voltage test shall be carried out by applying $1.95\text{KV} (3U_0)$ for four hours to the sample, which shall be submerged in a water bath at ambient temperature, having been steeped for a period not less than one hour. The test shall only be deemed to have been passed if no breakdown occurs.

Furthermore, the following non-electrical type tests shall also be carried out:

- **Insulation wall thickness:** the longitudinal projections used for phase 1 identifications shall be ignored as per IS 10810 (Part-6);
- **Ageing test:** consisting of an evaluation of the retention of the mechanical properties of the insulation after ageing.
- **Wrapping test:** as per IS 10810 (Part-3);
- **Tests for bleeding and blooming of pigment** as per IS 10810 (Part-9)
- **Thermal expansion of insulation.**
- **Measurement of carbon black content** as per IS 10810 (Part-32).
- **Water absorption by the XLPE insulation,** shrinking of the XLPE insulation.
- **Tensile test:** adhesion between conductor and insulation.

The adhesion test requires a tensile testing machine. A sample of at least 300mm length shall be selected and straightened out. The insulation shall be removed for a length of 150mm. The insulated end shall be held in the upper grip head and the bare conductor on the lower grip head. Tension shall be applied at a speed of 500mm/ min until the conductor first begins to slide within
the insulation. The test shall have been passed if the conductor and insulation combination can stand 75N/mm$^2$ without slippage occurring.

The neutral conductor/catenaries shall be type tested in accordance with the requirements of IS 398 (Part-IV) 1994.

15.3 **Routine Tests**

The following measurement or tests shall be carried out on all drums and coils of Bunched cable:

- Conductor resistance
- Voltage test.

The conductor to be tested for conductor resistance shall be stored for at least 12 hours in a room at particular constant temperature. If it cannot be established that the conductors have reached the room temperature, the test should be postponed for a period of further 12 hours. Alternatively, the test can be carried out on short sample after remaining one hour in a temperature controlled water bath. The test shall be carried out and the conversion factors used to convert the resistance value to a base of 200°C and one Km. The DC resistance of each conductor shall not exceed the appropriate maximum values specified in IEC:228/IS:6474.

The voltage test shall be conducted by applying to each core 3.5KV AC (2.5 $U_0$ plus 2 KV) or 8.4 KV DC for 5 minutes with the specimen lying in a water bath at ambient temperature. The conductor shall pass the test if no electrical breakdown occurs.

15.4 **Acceptance Tests**

The following sample check, measurements and test shall be carried out in addition to the Acceptance Tests as per IS 14255 – 1955, IS : 398 ( Part – IV ) 1994, IS 8130 / 1984

- Measurement of insulation wall thickness;
- Measurement of diameter of each strand, overall outside dia & Cross Sectional Area of the conducting Part out of the finished product during pre-dispatch inspection.
- Thermal expansion test;
- Check of physical characteristics
- Tensile strength of individual wires of conductor.
- High Voltage Test on drums immersed in water (apply voltage 3.5 KV AC for 5 min)

These tests should be carried out on one length form each production batch of the same sample.

The thickness of the insulation wall shall be measured on a piece removed from each end of the sample length. If either means or minimum values are not met, two further samples shall be removed at 0.5m form the end corresponding to the failed specimen. If these samples do not satisfy the mean and minimum thickness requirements, the test shall be deemed to have been failed.

The longitudinal projections used for phase identifications shall be ignored.

The thermal expansion test need only be carried out on one core.

In relation to the tensile test, the tensile strength of the aluminum wires before stranding and that of the finished conductor shall comply with IEC: 1089.

15.5 **Test on the Catenary (messenger) Conductor**

Breaking load, elongation and resistance tests shall be completed on the aluminum alloy catenaries conductor in accordance with the requirements of IS:398 (Part-IV)/1994 or IEC:1089.

15.6 **Bending Test on a complete cable**

This test shall be performed on a sample of completed cable. The sample shall be bent around a test mandrel at room temperature for at least on turn. It shall then be unwound and the process shall be repeated after turning the cable sample around its axis by 180°. This process shall be repeated twice more. There shall be no signs of breaking or cracking of the cable insulation during this test.

The diameter of the mandrel shall be:

\[ 10 (D+d) \]

Where \( D \) = Actual diameter of the cable (mm)
\[ d \] = Actual diameter of the conductor (mm)
15.7 **Rejection and Retests**

Should any one of the test pieces first selected fail to pass the tests, two further samples from the same batch shall be selected for testing, one of which shall be from the length from which the original test sample was taken unless the length has been withdrawn by the supplier.

Should the test pieces from both of these additional samples satisfy the requirements of the tests, the batch represented by these samples shall be deemed to comply with the standard. Should the test pieces from either of the two additional samples fail, the batch represented shall be deemed to have failed.

16.0 **COMPLIANCE WITH SPECIFICATION:**

The Aerial Bunched Cable shall comply in all respects with the requirements of this specification. However, any minor departure from the provisions of the specification shall be disclosed at the time of bidding in the Non-compliance Schedule of this document.

17.0 **COMPLIANCE WITH REGULATIONS:**

All the cables shall comply in all respects with the Indian Regulations and Acts in force. The cables and connections shall be designed and arranged to minimize the risk of fire and any damage, which might be caused in the event of fire.

18.0 **Non-conforming Product**

The Purchaser reserves the right for decisions regarding acceptance, modification or rejection of non-conforming items.

19.0 **Inspection and Testing**

The Purchaser or his authorized representative has free entry at all times, while work on the contract is being performed, to all parts of the manufacturer’s works which concerns the processing of the cables ordered. The manufacturer shall afford the the purchaser or his authorized representatives without charge, all reasonable facilities to ensure that the cable being furnished is in accordance with these specifications.

The cables shall successfully pass all the type tests, routine tests & acceptance Tests referred to in the section on tests and those listed in the most recent edition of the standards given in the specification.
The Purchaser reserves the right to reject any of the cables if the test results do not comply with the values specified or with the date given in the Technical data schedule.

Type tests shall be carried out at an independent testing laboratory or at the manufacturer’s works if such facilities are available and to be witnessed by the purchaser. The contractor, at no extra cost at the manufacturer’s work shall carry out routine and Acceptance tests in presence of the Purchaser’s representatives.

Type Test Certificates for the tests conducted earlier shall be submitted with the bid for evaluation. The requirements of additional type tests will be at the discretion of the Purchaser.

The Purchaser may witness routine and type tests. In order to facilitate this, the contractor shall give the purchaser of 15 days notice that the material is ready for inspection & testing. The supplier shall extend all assistance to the representative of the Purchaser during his inspection & testing of samples at his works. The materials shall be dispatched only after approval of such Test Reports and issue of Dispatch clearance by the Purchaser. However the Purchaser reserves the right to retest the materials after delivery at any NABL Accredited Testing Laboratory in case of any disputes regarding size & quality of supplied materials at a later date during guarantee period. The cost of such retesting shall be borne by the supplier.

All costs in connection with the testing, including any necessary retesting shall be borne by the Contractor, who shall provide the Purchaser with all the test shall have the right to select the samples for test and shall also have the right to ensure that the testing apparatus is correct. Measuring apparatus for routine tests shall be calibrated at the expense of the contractor at an approved laboratory and shall be approved by the purchaser before testing. The Contractor shall be responsible for the proper testing of the materials supplied by sub-Contractor to the same extent as if the materials were completed or supplied by the contractor.

Any cost incurred by the Purchaser in connection with inspection or retesting as a result of failure of the equipment under test or damaged during transport or off loading shall be to the account of the Contractor.
The Contractor shall submit to the Purchaser three signed copies of the test Certificates, giving the results of the tests as required. No materials shall be dispatched until the Purchaser has received the test certificate and the contractor has been informed that they are acceptable.

The test certificate must show the actual values obtained from the tests, in the units used in this specification, and most merely confirm that the requirements have been met.

In the case of components for which specific type tests or routine tests are not given in this specification, the Contractor shall include a list of the tests normally required for these components. All materials used in the Contract shall withstand and shall be certified to have satisfactorily passed such tests.

No inspection or lack of inspection or passing by the Purchaser’s representative of equipment or materials whether supplied by the Contractor or sub-Contractor, shall relieve the contractor from his liability to complete the contract works in accordance with contract or exonerate him from any of his guarantees.

20.0 GUARANTEE:

The contractor shall guarantee the following:

- Quality and strength of materials used.
- Satisfactory operation during the guarantee period of 24 months from the date of commissioning or 30 months from the date of receipt of the cables at NESCO’s store whichever is earlier.
- Performance figures as supplied by the bidder in the technical data sheet.

21.0 PACKING AND SHIPPING:

The cable shall be wound on strong drums or reels capable of withstanding all normal transportation and handing.

Each length of cable shall be durably sealed before shipment to prevent ingress of moisture. The drums reels or coils shall be lagged or covered with suitable material to provide physical protection for the cable during transit or during storage and handling operations.

In the case of steel drums adequate precautions shall be taken to prevent damage being caused by direct contact between the cable sheath and the steel. These precautions shall be subject to the approval of the Purchaser
If wooden drums are used then the wood shall be treated to prevent deterioration from attack by termites and fungi.

Each drum or reel shall carry or be marked with following information:

- Individual serial name
- Standard ISI Mark, 14255-95, Manufacturer’s B.I.S License No.
- Name of the Purchaser : NESCO / G.o.O/ CAPEX Programme
- Employer’s name
- Destination
- Purchase Order No. & Date
- Manufacturer’s name
- Year of manufacture
- Cable size and type
- Length of conductor (meters)
- Net and Gross mass of conductor (Kg)
- All necessary slinging and stacking instructions
- Destination
- Contractor’s name
- Name and address of contractor’s agent in Orissa
- Country of origin

The direction of rolling as indicated by an arrow shall be marked on a flange.

22.0 STORAGE:

The site selected for the storage of cable drums shall be well drained and preferably have a concrete/ firm surface which will prevent the drums sinking into the ground or being subjected to excess water thus causing flange rot.

All drums shall stand on battens, in the upright position and in such a manner to allow sufficient space between them for adequate air circulation. During storage the drums shall be rotated 90° every three months. In no instances shall be the drums be stored “flat” on their flanges or one on top of each other.
23.0 **SHIPPING:**

The Contractor shall be responsible for the shipping of all cables, drums and reels supplied from abroad to the ports of entry and for the transport of all goods to various specified destinations including customs clearance, off loading, warehousing and insurance.

The Contractor shall inform himself fully as to all relevant transport facilities and requirements and loading gauges and ensure that the equipment as packed for transport shall conform to these limitations. The contractor shall also be responsible for verifying the access facilities specified.

The contractor shall be responsible for transportation of all the loads associated with the contract and shall take all reasonable steps to prevent damage of any highway or bridges by his vehicles by selecting routes, choosing proper vehicles for use and restricting and distributing loads to avoid the risk of damage. The Contractor shall immediately report to the Purchaser any claims made against the contractor arising out of alleged damage to a highway or bridge.

All items of equipments shall be securely clamped against movement to ensure safe transit from the manufacturer’s facilities to the specified destinations.

24.0 **HAZARDOUS SUBSTANCES:**

The Contractor shall submit safety data sheets for all hazardous substance used with the equipment. The contractor shall give an assurance that there are no other substances classified as hazardous in the equipment supplied. He shall also take responsibility for the disposal of such hazardous substances that may be found for any injuries resulting from those substances.

25.0 **SUBMITTALS:**

The following shall be required in duplicate along with the bid:

- Completed technical data sheets;
- Descriptive literature giving full technical details of equipment offered.
- Outline dimension drawing for each type of conductor, for each bundle showing the conductor strand, composition and the bundle twist;
- Type test certificates, where available, and sample routine test reports;
- Detailed reference list of customers already using equipment offered during the last five years with particular emphasis on units of similar design and rating;
- Performance reports from the customers for the supplied LT XLPE AB Cables.
• Details of manufacturer’s quality assurance standards and programme and ISO 9000 series or equivalent national certificates;

• Deviations from this specification to be submitted as per Non-Compliance. Only deviations approved in writing before award of contract shall be accepted;

• List of recommended spare parts for five years of operation with prices and spare parts catalogue with price list for future requirements.

• Any other documents to establish qualifying & credibility requirements as specified in this Tender Document.

26.0 PERMANENT EMBOSsing:

All equipments and materials supplied/erected under the CAPEX Programme shall bear distinct mark of “Name of the DISCOM, GoO, CAPEX Programme, and Purchase Order No. & Date “by way of embossing/punching/casting etc. including other information mentioned in GTP. This should be clearly visible to naked eye.

27.0 COMPLETENESS OF CONTRACT:

The Contractor without extra cost, although not specifically mentioned herein, but necessary or usual for similar equipment and their efficient performance shall provide all fittings and accessories. The Bid shall clearly indicate if any additional equipment or parts would be necessary to give complete offer and if so, the details and prices shall be included in the bids.
### GUARANTEED TECHNICAL PARTICULARS FOR LT XLPE AB CABLE.

<table>
<thead>
<tr>
<th>Sl No</th>
<th>Description</th>
<th>3X 50 + 1X35 + 1X16 mm²</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ref. ISS / IEC followed</td>
<td>IS 14255/95, IS 398 Part IV</td>
</tr>
<tr>
<td>2</td>
<td>Phase Conductor material / Insulation type</td>
<td>H2 / H4 E.C grade aluminium as per IS 8130/84 / XLPE insulation ( IS 14255/95)</td>
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<tr>
<td>3</td>
<td>Material of Neutral Catenary</td>
<td>Aluminum alloy as per IS 398 Pt - IV</td>
</tr>
<tr>
<td>4</td>
<td>Voltage Class</td>
<td>0.65/1.1 KV</td>
</tr>
<tr>
<td>5</td>
<td>No. of Strands of Phase Conductor 7</td>
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</tr>
<tr>
<td>6</td>
<td>No. of strands/ Average /Minimum Strand Dia. In mm. (Finished Phase conductor.)</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Approximate Overall Dia. Of compacted phase conductor after removal of insulation.(in mm.)</td>
<td>9.15</td>
</tr>
<tr>
<td>8</td>
<td>No. Of Strands / Average Strand Dia. In mm. ( Neutral Catenary.)</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Minimum Overall Dia. Of compacted Bare Neutral Caternary .(in mm.)</td>
<td>7.62</td>
</tr>
<tr>
<td>10</td>
<td>No. Of Strands / Average strand dia. / Nomunal cross sectional area of conducting part In No / mm2. ( St. Light Conductor)</td>
<td>7 /1.75 / 16mm²</td>
</tr>
<tr>
<td>11</td>
<td>Minimum average thickness of insulation of phase Cond. (mm)</td>
<td>1.5</td>
</tr>
<tr>
<td>12</td>
<td>Minimum thickness of insulation of Phase Cond. At any point (mm )</td>
<td>1.25</td>
</tr>
<tr>
<td>13</td>
<td>Minimum thickness of insulation at any point in street light conductor (mm)</td>
<td>0.98</td>
</tr>
<tr>
<td>14</td>
<td>Maximum DC resistance of Phase conductor at 20 °C ohmm/ KM</td>
<td>0.64</td>
</tr>
<tr>
<td>15</td>
<td>Maximum DC resistance of street light conductor Ω / Km</td>
<td>1.91</td>
</tr>
<tr>
<td>16</td>
<td>Maximum DC resistance of neutral cond. Ω / Km</td>
<td>0.986</td>
</tr>
<tr>
<td>17</td>
<td>Ultimate tensile strength of neutral conductor (KN)</td>
<td>14</td>
</tr>
<tr>
<td>18</td>
<td>Maximum temperature (Continuous)</td>
<td>90°C for phase and 75 °C for neutral</td>
</tr>
<tr>
<td>19</td>
<td>Embossing on insulation at each one meter interval</td>
<td>Distinct Non-erasable ISI Mark, IS 14255-95, Manufacturer’s B.I.S License No., Name of the Purchaser, Name of the manufacturer, Size of cable, voltage Grade along with sequential marking of length..</td>
</tr>
<tr>
<td>20</td>
<td>Cable drum length</td>
<td>250 / 500 / 1000m</td>
</tr>
<tr>
<td>21</td>
<td>Volume Resistivity of insulation at 27°C</td>
<td>1X10¹³Ω - cm min.</td>
</tr>
<tr>
<td>22</td>
<td>Volume Resistivity of insulation at 70°C</td>
<td>1X10¹³Ω - cm min.</td>
</tr>
</tbody>
</table>
SECTION –V

LIST OF ANNEXURES
(SCHEDULES AND FORMATS)
ABSTRACT OF GENERAL TERMS AND CONDITIONS
(For supply of XLPE AB Cable)

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

5. Manufacturer’s past supply experience including user’s certificate furnished or not: - Yes / No

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

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

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

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

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

11. Whether the Prices are FIRM? Yes / No

12. Whether agreed to furnish security deposit in shape of B.G. encashable at Bhubaneswar in case his tender is successful: - Yes / No

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

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

15. 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.
DECLARATION FORM

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 do 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…………….200…. Yours faithfully,

(Signature of Tenderer with Seal)

(This form should be duly filled up & signed by the bidder & submitted along with the original copy of the bid)
PROFORMA FOR COMPOSITE BANK GUARANTEE FOR SECURITY DEPOSIT, PAYMENT AND PERFORMANCE

This Guarantee Bond is executed this ___ day of ______________________ by us the

P.O._______ P.S. __________ Dist ______________ State __________
( indicate designation of Purchaser )

Whereas North Eastern Electricity Company of Orissa Ltd. (NESCO) ,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 NESCO 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 NESCO 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 NESCO 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 NESCO an amount not exceeding Rs._____________ (Rupees ____________________________) only against any loss or damage caused to or suffered by NESCO 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 to the guarantee without any demur, merely on a demand NESCO stating that the amount claimed is due by way of loss or damage caused to or suffered by NESCO 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 NESCO 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 unrevocable. 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 contain shall remain in full force and affect during the period that would be taken for the performance of the said Agreement and it shall continue to remain in force endorsable till all the dues of NESCO under by virtue of the said Agreement have been fully paid and its claim satisfied or discharged or till NESCO 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 NESCO 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 NESCO or any indulgence by NESCO 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 NESCO in writing.

Dated __________ the __________ day of Two thousand ________

Not withstanding 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 issuing Branch & from main branch/specified branch at Bhubaneswar of issuing Bank.
### Guaranteed Technical Particulars for LT XLPE AB Cables

**Annexure – IV**

**Tender Notice No CSO/CAPEX-NESCO/XLPE AB Cable /13 Dt. 05.04.2012**

**Guaranteed Technical Particulars for LT XLPE AB Cables.**

*(Signed copy to be submitted along with bid)*

<table>
<thead>
<tr>
<th>Sl No</th>
<th>Description</th>
<th>3X 50 + 1X35 + 1X16 mm²</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ref. ISS / IEC followed</td>
<td>IS 14255/95, IS 398 Part IV</td>
</tr>
<tr>
<td>2</td>
<td>Phase Conductor material / Insulation type</td>
<td>H2 / H4 E.C grade aluminium as per IS 8130/84 / XLPE insulation (IS 14255/95)</td>
</tr>
<tr>
<td>3</td>
<td>Material of Neutral Catenary</td>
<td>Aluminum alloy as per IS 398 Pt - IV</td>
</tr>
<tr>
<td>4</td>
<td>Voltage Class</td>
<td>0.65/1.1 KV</td>
</tr>
<tr>
<td>5</td>
<td>No. of Strands of Phase Conductor</td>
<td>7</td>
</tr>
<tr>
<td>6</td>
<td>No. of strands/ Average /Minimum Strand Dia. In mm. (Finished Phase conductor.)</td>
<td>7/3.05</td>
</tr>
<tr>
<td>7</td>
<td>Approximate Overall Dia. Of compacted phase conductor after removal of insulation. (in mm.)</td>
<td>9.15</td>
</tr>
<tr>
<td>8</td>
<td>No. Of Strands / Average Strand Dia. In mm. (Neutral Catenary.)</td>
<td>7/2.54</td>
</tr>
<tr>
<td>9</td>
<td>Minimum Overall Dia. Of compacted Bare Neutral Catenary. (in mm.)</td>
<td>7.62</td>
</tr>
<tr>
<td>10</td>
<td>No. Of Strands / Average strand dia. / Nominal cross sectional area of conducting part in No/mm². (St. Light Conductor)</td>
<td>7 /1.75 / 16mm²</td>
</tr>
<tr>
<td>11</td>
<td>Minimum average thickness of insulation of phase Cond. (mm)</td>
<td>1.5</td>
</tr>
<tr>
<td>12</td>
<td>Minimum thickness of insulation of Phase Cond. At any point (mm)</td>
<td>1.25</td>
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<td>Minimum thickness of insulation at any point in street light conductor (mm)</td>
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<tr>
<td>14</td>
<td>Maximum DC resistance of Phase conductor at 20 °C ohm/km</td>
<td>0.64</td>
</tr>
<tr>
<td>15</td>
<td>Maximum DC resistance of street light conductor Ω/Km</td>
<td>1.91</td>
</tr>
<tr>
<td>16</td>
<td>Maximum DC resistance of neutral cond. Ω/Km</td>
<td>0.986</td>
</tr>
<tr>
<td>17</td>
<td>Ultimate tensile strength of neutral conductor (KN)</td>
<td>14</td>
</tr>
<tr>
<td>18</td>
<td>Embossing on insulation at each one meter interval</td>
<td>Distinct Non-erasable ISI Mark, IS 14255-95, Manufacturer’s B.I.S License No., Name of the Purchaser, Name of the manufacturer, Size of cable, voltage Grade along with sequential marking of length.</td>
</tr>
<tr>
<td>19</td>
<td>Cable drum length</td>
<td>250 / 500 / 1000m</td>
</tr>
<tr>
<td>20</td>
<td>Volume Resistivity of insulation at 27°C</td>
<td>$1 \times 10^{13} \Omega \text{ cm min.}$</td>
</tr>
<tr>
<td>21</td>
<td>Volume Resistivity of insulation at 70°C</td>
<td>$1 \times 10^{13} \Omega \text{ cm min.}$</td>
</tr>
</tbody>
</table>
N.B: 1) For values not available in relevant ISS, values indicated in our GTP / Tender Specification shall be valid.

2) In case of discrepancies between values of ISS & GTP, better will prevail.

3) Average diameters of strands of each cable shall be ascertained by physical measurement after opening the strands of each phase of a finished AB Cable offered for inspection.
Annexure- V  
Price Schedule for Materials/ Equipments Offered as per Notice No.  CSO/CAPEX - NESCO/XLPE AB CABLE /13 Dt. 05.04.2012

Name of Discom- NESCO

Name of Bidder ___________________________________

<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 Unit 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>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11 = (5+6+7+8+9+10)</td>
<td>12 = 4 x 11</td>
</tr>
<tr>
<td>XLPE AB Cable (3 x 50 + 1 x 35 + 1 x 16) mm2</td>
<td>Kms</td>
<td>848</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></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.

The above is to be duly filled up, signed and submitted in sealed condition in a separate envelop superscribed as “ Part-II Bid – Price Bid”
(TECHNICAL DEVIATION FORMAT)

TENDER NOTICE. NO CSO/CAPEX-NESCO/XLPE AB CABLE /13 Dt. 05.04.2012

<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>
</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.
(COMMERCIAL DEVIATION FORMAT)

TENDER NOTICE NO: CSO/CAPEX-nesco/xlpe ab cable /13 dt. 05.04.2012

<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…………………..By:

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 Forth Member shall collectively hereinafter be called as the “Consortium Members” for the purpose of submitting a bid proposal to North Eastern Electricity Supply Company of Orissa Ltd. (NESCO) (Hereinafter referred to as DISCOM) , being a Company incorporated/Constituted under the Companies Act,1956 having its registered office at N 1/22, IRC Village, Nayapalli, Bhubaneswar - 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 ISI Mark and 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 Bhubaneswar 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.

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 <…………………..> Has been affixed in my/our presence Pursuant to the Board of Director’s resolution dated………………

Signature…………………………..

Name…………………………

Designation……………………..

Common Seal of the company

2. Common Seal of <…………………..> Has been affixed in my/our presence Pursuant to the Board of Director’s resolution dated………………

Signature…………………………..

Name…………………………

Designation……………………..

Common Seal of the company

3. Common Seal of <…………………..> Has been affixed in my/our presence Pursuant to the Board of Director’s resolution dated………………

Signature…………………………..

Name…………………………

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

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

Name …………………
Signature…………………………..                                 Designation
…………………….
Name …………………………..                           Name ………………………….
(Official address)                                                     (Official address)

WITNESSES

1………………………………… 2. ……………………………………
(Signature)                      (Signature)
Name …………………………..                           Name ………………………….
(Official address)                                                     (Official address)
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 North Eastern Electricity Supply Company of Orissa Ltd. (NESCO) ,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

SELF DECLARATION FORM

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,

Place-

Date-

Signature of the bidder with seal

(This form shall be duly filled-up and signed by the bidder & submitted along with the original copy of the Bid.)
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 North Eastern Electricity Supply Company of Orissa Ltd. [herein after referred to as the NESCO] for the purchase of __________________________________________________________ (name of Material)

M/s________________________________________ Address________________________________

wish/wished to participate in the said tender and as the Bank Guarantee for the sum of Rs.____________ 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][Hereinafter referred to as ‘the Bank’] at the request of M/S __________________________ [Herein after referred to as supplier (s)] do hereby unequivocally and unconditionally guarantee and undertake to pay during the above said period, on written request by NESCO an amount not exceeding Rs.________________________ to the NESCO, 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 NESCO stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the NESCO 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 NESCO 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 Bhubaneswar further agree that the guarantee herein contain shall remain in full force and effect during the aforesaid period of --
65

---------- days and it shall continue to be so enforceable till all the dues of the NESCO under by virtue of
the said Bid have been fully paid and its claims satisfied or discharged or till NESCO 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 the ________________ (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 Bhubaneswar further
agree that the NESCO 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 NESCO 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 NESCO or any indulgence by the NESCO 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 or our local branch at Bhubaneswar lastly undertake not revoke this
Guarantee during its currency except with the previous consent of the NESCO in writing.

8. We, the________________________ Bank further agree that this guarantee shall also be invokable at
our place of business at Bhubaneswar (Indicate detail name, address & branch code no. of the branch)
in the State of Orissa.

Dated ______________________ Day of 2012.

Witness ((Signature, names & address) For_________ [Indicate the name of Bank]
1. Power of Attorney No._______
2 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.
ANNEXURE- X (B)

FORM OF EXTENSION OF BANK GUARANTEE
(ON NON-JUDICIAL STAMP PAPER OF Rs.100/-)

Ref. No.______________
Dated: __________

NESCO Ltd.,
Regd. Office: N1/22, IRC Village, Nayapalli
Bhubaneswar - 751015

Dear Sirs,

Sub: Extension of Bank Guarantee No.__________for Rs._____________favouring yourselves expiring ____________ on account of M/s. ______________ in respect of contract No.______________ dated ____________ (hereinafter 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. ______________ Dated__________ for a further period of _______ Years/months from ________to expire on ____________ except as provided above, all other terms and conditions of the original bank guarantee No.__________dated __________ 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.
ANNEXURE- XI

FORMAT FOR PAST SUPPLY EXPERIENCE

NAME OF THE BIDDER: -

TENDER NOTICE NO: CSO/CAPEX-SOUTHCO/XLPE AB CABLE /15 Dt. 05.04.2012

DETAILS OF PURCHASE ORDER(S) EXECUTED DURING FY 2009-10 to 2011-12

<table>
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<th>Sl. No.</th>
<th>P.O. No.</th>
<th>Date</th>
<th>Order Quantity</th>
<th>Name of the Client</th>
<th>Quantity Supplied during</th>
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TOTAL

I/We certify as under:

(i) The above information is true to the best of my / our knowledge and I / we undertake to produce the invoice details on demand.

(ii) 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.