



भारतीय मानक ब्यूरो  
BUREAU OF INDIAN STANDARDS

पूर्वी क्षेत्रीय परीक्षण केन्द्रः  
पी-230, सी.आई.टी. स्कीम, VII एम, ब्लॉक-W,  
वी.आई.पी. रोड, कान्कुरगाछी,  
कोलकाता-700 054  
EASTERN REGIONAL TESTING CENTRE :  
P-230, C.I.T. Scheme VII M, Block-W  
V.I.P. Road, Kankurgachi,  
Kolkata - 700 054

Our Ref: EROL /Pur/Elect/Air Oven

22.06.2015

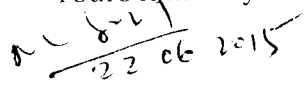
**Subject: Tender for supply of AIR OVEN FOR THERMAL AGEING TEST**

TO

Dear Sirs,

Tenders are invited for the supply of the above item(s) in the sealed cover duly super scribed as **"QUOTATION FOR THE SUPPLY OF AIR OVEN FOR THERMAL AGEING TEST"** complying the requirements of the enclosed **Annex-I** (The Term and conditions of supply) and **Annex-II** (The Technical Specification of the equipment) which should reach the undersigned latest by 15.00 hrs on 22.07.2015. Also ensure to submit the Technical and financial quotations/bids in **separate envelopes along with EMD as indicated in Annex I**, failing which quotation will be rejected. The tenders shall be opened in this office at 1630 hours on 22.07.2015 in the presence of such tenderers or their duly authorized representatives, who may like to attend.

Thanking you,

Yours faithfully  
  
( Madhusudan Ray)  
Sc- E

Encl: As above

**ANNEX-I**  
**(Terms and conditions for Tenderer)**

1. The Tenderers are requested to give detailed tender in the forms of two bids i.e.  
Part - A Technical Bid.  
Part - B Financial Bid.
2. The Technical & **Financial** Bids should **be sealed and sent separately in sealed** envelopes & duly super-scribed (giving Equipment name, technical/financial bid, due date of opening & Ref. No. on the top of the envelope). Such Bids shall remain valid for a period of 120days from the date of opening.
3. Bidders may be required to arrange practical demonstration of equipment/model quoted by them before finalization of order.
4. The Technical Bid [Part A] should accompany complete specification, Manufacturer's name, address and following details:
  - a. Expected life span of equipment and accessories.
  - b. List of pre-installation facilities required for installation and commissioning of equipment and also consumables to be arranged by the Bureau,
  - c. List of the Users in India especially Govt. Labs. /Institutes with complete postal address to whom the similar equipment has been supplied along with their feedback,
  - d. Near locations in India from where after sales services shall be provided along with the name of Servicing Agent,
  - e. The optional and any other essential items/accessories required for the maintenance of the equipment for the next three years.
  - f. Technical Literature of the equipment along with necessary clause wise photograph/drawings, if any
  - g. **Compliance statement vis-a-vis specification. including statement of deviation, if any (Annex- B)**
  - h. **Delivery Period:** The delivery of the equipment is required to be made within 30 days of receipt of order. If, it is not possible for you to affect delivery within the period, you are required to specify the date by which you can guarantee delivery of the stores.
  - i. **Warranty:** The equipment is to be guaranteed for trouble free performance for a **minimum period of two years after commissioning.** The defects, if any, during the warranty period are to be rectified free of charge by arranging free replacement wherever necessary.
  - j. The Tenderer is required to furnish the **Permanent** Account Number (PAN)/TAN of the firm Allotted by the Income Tax Department.
5. Each tender document shall be accompanied with EMD of 3% of **total cost of the equipment (excluding taxes)**. The demand draft for the EMD amount shall drawn in favour of BUREAU OF INDIAN STANDARDS payable at Kolkata. The sealed envelope containing EMD should be super scribed "EMD" **and stapled separately with the envelope containing the commercial Bids. No disclosure of amount of EMD in Tech. Bid should be done.**
6. Cost of **the items** should be mentioned clearly in the **Financial Bid [Part-B] only. The following details need to be included**
  - a. Price break-up of main equipment and accessories and consumables to be supplied by the party,
  - b. The rates quoted should separately indicate Basic Cost, Excise Duty, sales Tax. Packing & Forwarding charges. Freight, Insurance, VAT etc. Rates quoted should specifically state

Sales Tax, Excise Duty Or any other taxes/charges. In absence of any such stipulation, it will be presumed that the prices include all such charges and no claim for the same shall be entertained. Form C/D shall not be provided by BIS. In case of foreign supplier BIS shall pay Custom Duty.

- c. Rebate on the quoted price, if additional equipment is procured for any other BIS Lab, and
  - d. The Annual Maintenance Contract charges for next three years after the expiry of warranty period.
  - e. CIF (Carriage Inward & Freight), Kolkata value both by Airfreight and Ocean freight, where applicable.
7. BIS shall pay 90% of the cost after satisfactory installation & commissioning and the Balance of **10% as contract performance** security would be paid after expiry of warranty period. **In case of foreign** suppliers 100% payment shall be made by an Irrevocable letter of Credit established in favour of the supplier through the Punjab National Bank, Manicktala, Kolkata, for the order value provided an unconditional Performance Bank Guarantee valid till 60 days after the warranty period from a Nationalized Bank for 10% of the order value within 15 days of placement of the order is given to us. The Agency Commission to the Indian Clearing Agent will not be paid by the Bureau. The firm has to arrange for it. BIS shall provide Custom Duty Exemption Certificate at the time of Custom Clearance as well as any applicable Custom Duty.
8. Place of Delivery:  
**Head, Eastern Regional** Office Laboratory,  
BUREAU OF INDIAN STANDARDS,  
P-230, CIT Scheme-VII M, Block-W, Kankurgachi,  
Kolkata-700 054.
9. Quotations/bids qualified by indefinite expressions such as 'subject to immediate acceptance' etc. and incomplete quotations are liable to be summarily rejected.
10. In case of foreign quotation, the address of Principals / Manufacturers and their Banker's' details should be furnished. The supplier is required to have an import licence for the equipment quoted where applicable as per GOI guidelines
11. All goods shall be inspected by BIS preferably on site and also in the presence of supplier or his authorized representative, when the packages are opened in Labs prior to installation. The decision of BIS shall be binding. Rejected items/goods/stores shall be removed by the supplier at his own cost and risk, within 30 days of receipt of notice for the removal of such goods, and no liability, whatsoever. on the Bureau shall be attached for the rejected/disapproved goods/items/stores.
12. **INSTALLATION: Bidder shall be responsible for installation / demonstration wherever applicable and for after sales service during the warranty and thereafter. If the supplier fails to Supply, Install and commission the system as per specifications mentioned in the order within the due date, the Supplier is liable to pay liquidated damages of one percent value of the Purchase Order awarded, per every seven days delay subject to a maximum of 10% of the total value of the order and such money will be deducted from any money due or which may become due to the supplier.**
13. The supply of spare parts is to be guaranteed at least for a period of 10 years after the supply of the equipment.
14. The Bureau reserves the right to accept or reject summarily and/or all tenders in whole or part without assigning any reason whatsoever.

15. The Date and Time of opening for Part B (Financial Bid) will be intimated only to technically acceptable/qualified tenderers at a later date.
16. In case of any dispute arising out of this agreement then DG BIS shall nominate any officer of the BIS a sole arbitrator to adjudicate upon the issue involved in the dispute and the provisions of the Arbitration Act shall be applicable
17. All question, disputes or differences arising under, out of or in connection with this Bid document shall be subject to the exclusive jurisdiction of Kolkata Court.

**Bureau of** Indian Standards  
Eastern Regional Laboratory, Kolkata

## **ANNEX-II**

### **EQUIPMENT SPECIFICATION**

#### **NAME OF THE EQUIPMENT : AIR OVEN FOR THERMAL AGEING TEST**

**PURPOSE :** Used for Thermal Ageing Test of PVC insulation & sheath (Type A/B/C/ST1/ST2) / XLPE insulation used in the manufacture of Electric Cables as per IS 694/1554 Pt1 / 7098 Pt1 and as per test method given in IS 10810 Pt 10 & 11

#### **2. Technical Requirements :**

**2.1 Chamber :** 8 chamber ageing oven having double walled chambers stuffed with suitable

insulating material like Mineral Wool/Glass Wool. The 8 inside chambers shall be circular in size and shall of thick aluminum sheet having size 100 mm diameter X 300 mm height. The insulation provided shall be such that the outside surface at any place shall not have temperature of more than 40 - 45° C.

**2.2 Heaters :** Jacket type electric heaters shall be provided surrounding the chambers to have

uniform heating at all places of the chambers.

**2.3 Temperature Measuring, Indicating & Controlling Device :** Digital temperature indicator - cum- controllers with appropriate sensors for individual chambers shall be provided. Temperature range required for each chamber is ambient to 200° C  $\pm$  2° C or better. Additionally suitable thermometer having temp range upto 200° C with least count of 1° C shall also be supplied.

**2.4 Air circulation :** The air shall enter the chambers of the ageing ovens in such a way that it flows over the surface of test pieces and leaves near the top of the chambers. The ovens shall have a rate of flow of air such that it ensures **8 to 20 air changes per hour** (volume of air required per chamber is **315 to 790 cc per hour**) at specified ageing temperature. The equipment shall be fitted with air flow meter-cum- controllers to control the volume of air passing through the chambers. An air inlet nozzle for airline/air compressor shall be made/provided in the equipment.

**2.5 Test Specimen Holding Device :** Specially designed split top covers to hold three to five test

specimen at a time in each chamber shall be supplied with the equipment.

**2.6 Chronometer :** An Hour Meter to record the total time shall be provided

**2.7 Accuracy of measurement-cum- controlling devices :**  $\pm$  2° C or better & of class I

**2.8 Service & Calibration Requirements :** The equipment may preferably be purchased through a local agency who would be able to provide after sales service including calibration of the equipment from NABL accredited agency.

**ANNEX-III**

**DEVIATION STATEMENT FORM**

- 1) The following are the particulars of deviations from the requirements of the tender document and specifications:

SPECIFICATION CLAUSE	DEVIATION	REMARKS (INCLUDING JUSTIFICATION)

PLACE:

DATE:

SEAL & SIGNATURE OF BIDDER

NOTE: 1) Where there is no deviation; the statement should be returned duly signed with an endorsement indicating "No Deviations".