

POSTED UNDER POSTAL CERTIFICATE

BUREAU OF INDIAN STANDARDS

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BIS BANGALORE LABORATORY
Peenya Industrial Area
1st Stage, Tumkur Road
Bangalore – 560 058

Ref : BNBL / 13:2 / 418

Date : 11 September 2006

Subject : Tender Notice for the supply of “Laboratory Electric Oven conforming to the tender specification code CBE02”

Dear Sir(s),

Quotation(s) is / are invited for the supply of the equipment(s) / item(s) required for testing GLS Lamps as per IS 15518(Part 1) : 2004.

1. The terms and conditions for submitting quotations and supply of the equipment are given in **Annexure – I** (Page 2 to 4).
2. The details of the equipment(s) / item(s) required along with specification(s) are given in **Annexure - II** (Page 5 to 7).
3. The quotation(s) should reach the undersigned latest by 1430 hours on **03 October 2006** at the above address.
4. The quotation(s) shall be opened at 1500 hours on **04 October 2006** in the presence of such tenderers or their duly authorized representatives who may like to attend.
5. Unless stated otherwise, quotation(s) shall be deemed to be for delivery at BIS Bangalore Branch Office Laboratory.
6. The tender is also posted in BIS Website – www.bis.org.in

Thanking you,

Yours faithfully,

(B.R. Narayanappa)
Director & Head BNBOL

Encl. : 1) Annexure - I
2) Annexure - II

TERMS & CONDITIONS

1. **The quotation(s) shall be submitted in two parts – Technical bid & Financial bid.** The technical bid and financial bid should be sealed by the bidder in separate covers duly superscribed and both these sealed covers are to be put in a bigger cover which should also be sealed and duly superscribed “Quotations for the supply of Laboratory Electric Oven”. The financial bid will be opened after technical evaluation of technical bids. The date of opening of price bids will be informed to the bidders found suitable in technical evaluation.
2. **The offer/quotation must be strictly as per required specifications and the tender terms and conditions.**
3. The technical bid shall contain the technical leaflets/literature and complete specification of the quoted model(s) of the item. It must be ensured that the offers are strictly as per our specifications. Deviations, if any from the specifications shall be clearly brought out along with justification.
4. The financial bid should clearly give break-up of cost of each equipment as per specifications. The rates quoted should separately indicate Basic Cost, Excise Duty, Sales Tax, Packing and Forwarding Charges, Freight, Insurance, VAT, etc. In the 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.
5. The bids shall remain valid for a period of 90 days from the date of opening of quotation(s) specified.
6. Documents in support of experience, past performance, technical capability, manufacturing facilities, and financial position of the supplier as well as client-list should be furnished along with the technical bid.
7. The bids shall be accompanied with Earnest Money Deposit(EMD) for an amount of Rs 8,000/- (Rupees eight thousand only) by demand draft in favour of “Bureau of Indian Standards”, payable at Bangalore. The sealed envelope containing EMD shall be superscribed “EMD” and stapled separately with the envelope containing Technical Bid. This will be returned to the unsuccessful bidders within 30 days of the award of the contract.
8. **The bidders shall mention in the quotation, the rate/amount of annual maintenance charges,** if BIS opts for maintenance contract after expiry of the warranty period. This is mandatory to mention.

9. **It shall be clearly mentioned in the technical bid of arrangements for after sales service.** Suppliers having the required infrastructure in or around Bangalore for providing timely and efficient service of the equipment will be preferred.
10. **The Bureau gives first preference in its purchase to goods bearing ISI Certification Mark and second preference to those which conform to the relevant Indian Standard Specification as applicable.**
11. The delivery of stores is required within 60 days of receipt of order. If however, it is not possible for you to effect delivery during working hours by that date, you should specify the date by which you can guarantee delivery of stores. Quotation(s) qualified by such vague and indefinite expressions as “ subject to immediate acceptance”, “subject to prior sale”, etc. and incomplete quotation(s) is/are liable to be summarily rejected.
12. The equipment should be installed/commissioned and demonstrated by the supplier at BIS Bangalore Laboratory immediately, but in any case within one month after receipt of the item in the lab, and the same will be put under operation to the satisfaction of BIS technical personnel who will test the performance of the equipment. **No separate charges for installation, etc. will be paid to the party beyond the quoted prices.**
13. BIS shall pay 90% of the cost after satisfactory installation and commissioning and training, and the balance of 10% as **contract performance security** would be paid after expiry of warranty period. However other terms of payment for contract performance security can also be considered, if so stated clearly.
14. The warranty period of the equipment shall be clearly stated in the Technical Bid. The warranty period of an item/equipment shall commence from the date of receipt of the item/equipment in good working condition and satisfactory installation / commissioning / demonstration at BIS Bangalore Laboratory. The warranty period and validity of contract performance security shall be extended for the period of delay in satisfactory installation.
15. Successful tenderer shall be required to provide comprehensive maintenance guarantee for the equipment, including replacement of spares if any.
16. Successful tenderer shall be required to provide training to BIS personnel at BIS Bangalore Laboratory in the use of the equipment at the supplier's cost.
17. All goods shall be received subject to approval on inspection. The decision of our inspecting officer 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.

18. This Bureau reserves the right of accepting the whole or any part of the quotation(s) or portion of the quantity offered and the successful tenderer shall supply the same at the rate quoted.
19. The Bureau reserves the right to accept or reject summarily any or all quotation(s) in whole or in part without assigning any reason whatsoever.
20. The Bureau takes no responsibility for delay, loss or non-receipt of quotation(s) after dispatch.
21. In case of non-compliance with the terms and conditions of the contract, the Bureau reserves its right to :
 - a) cancel/rescind/revoke the order if supply is not made in time and is not conforming to the required specifications.
 - b) impose penalty up to 1% of the total value of the order for a delay of every seven days after the scheduled date subject to the ceiling of a maximum of 10% of the total value of the order.
22. All questions, disputes or differences arising under, out of or in connection with this tender enquiry shall be subject to the exclusive jurisdiction of Bangalore Courts.
23. **Bidders must furnish a compliance statement of each and every clause of the terms and conditions of the tender along with the quotation. The deviations, if any, from the terms and conditions shall be clearly brought out in the statement. One copy of the terms & conditions along with equipment specifications may be duly signed and returned with the technical bid as an acknowledgement of having read and accepted the same.**

Annexure – II

**LIST OF EQUIPMENT REQUIRED FOR TESTING
GLS LAMP
AS PER IS 15518(Part 1) : 2004**

| SL. NO. | EQUIPMENT / ITEM | EQUIPMENT SPECIFICATION CODE | QUANTITY |
|--------------------|-----------------------------|---------------------------------------------|-----------------|
| 1. | Laboratory Electric Oven | CBE 02 | 03 nos. |

BUREAU OF INDIAN STANDARDS
(BANGALORE BRANCH OFFICE LABORATORY)
EQUIPMENT SPECIFICATION

EQUIPMENT SPFN. CODE : **CBE02**
NAME OF THE EQUIPMENT : **Laboratory Electric Oven**
PROPOSED FOR BIS LABS : **BNBOL**
TOTAL QUANTITY REQUIRED : **03(three)**

1.0 Scope

Covers the basic guiding requirements for the design of laboratory electric oven required for carrying out the following test:

- Test for resistance to heat as per Cl.4.5.3 of IS 15518(Pt.1) : 2004

2.0 Test conditions

Lamps shall be placed in an oven. The required temperature (210°C for B22d/E27 caps) shall be maintained throughout the working space within a tolerance of 0°C - 5°C. The test lamps(125 lamps/sample approximately) shall be heated for a period of 1.5 times the lamp life(1500hours normally).

3.0 Construction

3.1 The dimensions of inner chamber shall be as follows:

610mm(Depth) × 1016.8mm(Width) × 1016.8mm(Height)

3.2 The inner chamber shall be made of at least 1.6mm, corrosion resistant stainless steel.

3.3 The exterior shall be triple wall, using at least 1.8mm, CRCA steel with scratch resistant powder coated finish, adjustable door latch and hinges.

3.4 Fiber glass/glass wool, minimum 3” thick shall be provided on all sides. Peripheral silicon door seal to minimize heat loss shall be provided.

3.5 Five numbers of perforated trays made of at least 1.6mm stainless steel shall be provided which shall be removable and adjustable along the height. The design of lugs, brackets or runners for shelves shall be such that heavily laden shelves may not tilt during withdrawal.

3.6 Motorized fan shall be provided to assist the convection and bring about uniformity of temperature.

4.0 Temperature range

+5°C above ambient to 300°C

5.0 Temperature control

5.1 Microprocessor based PID controller shall be used for the precise control of temperature with the following accuracy:

Temperature : ± 0.5°C

6.0 Instruments and controls

- 6.1 An instrument console shall be fitted to the oven for ease of operation. It shall include the following:
Indicating panel consisting of mains on-off switch, mains-on indicator lamp, LED temperature indicator with 0.1°C resolution, on-off switch for air circulating fan, etc.
- 6.2 A user programmable electronic timer (0 – 9999hours) shall be provided for automatic programming of test period.
- 6.3 Audible and visual temperature alarms shall be provided to alert any temperature deviation from active set point of exceeding high limit.
- 6.4 Temperature controller shall show two separate displays while operating: one for process and one for set-point. The indicator shall have a basic accuracy of minimum 0.5%.
- 6.5 Non-volatile memory shall be provided in the control system to facilitate oven to return to original set-point when power is restored, in the event of a power failure.

7.0 Safety protections

The oven shall be provided with the following safety protections:

- Safety cut-outs for high temperature;
- Safety alarm in case of oven mal-functioning, where required;
- Provision for interlocking of fan in the heater circuit;
- Provision of a suitable earth terminal.

8.0 Calibration :

Calibration certificates on temperature indicator as well as the timer from NABL accredited calibration agency shall be furnished along with the equipment. The calibration certificate on timer may be for a shorter length of time since it may not be practical to carry out the calibration check for the full range.

9.0 Documentation

Technical documentation such as instruction, operating, maintenance/service manuals containing schematic diagrams, list of component parts with performance data and list of spare parts, etc. shall be supplied along with the equipment.

10.0 Guarantee

The equipment shall be guaranteed for a minimum period of one year of satisfactory operation and thereafter comprehensive service support shall be provided at our site.