

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 “Ageing Rack for GLS Lamps conforming to the tender specification code CBE01”

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 418 : 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 8).
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 Ageing Rack for GLS Lamps”. 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 5,000/- (Rupees five 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 418 : 2004**

SL. NO.	EQUIPMENT / ITEM	EQUIPMENT SPECIFICATION CODE	QUANTITY
1.	Ageing Rack for GLS Lamps along with 03nos. Auto Transformer	CBE 01	01 no.

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

EQUIPMENT SPFN. CODE : **CBE01**
NAME OF THE EQUIPMENT : **Ageing Rack for GLS lamps**
PROPOSED FOR BIS LABS : **BNBOL**
TOTAL QUANTITY REQUIRED : **01 (one)**

1.0 Scope

Covers the basic guiding requirements for the design of ageing rack required for carrying out the following test:

- Test for initial readings as per Cl.8 of IS 418 : 2004

2.0 Test conditions

Before the initial readings are taken, lamps shall be aged at a voltage between rated voltage and 110% of rated voltage for a period equivalent to 0.04% to 0.1% of rated life.

3.0 Construction

- 3.1 The rack shall be designed and constructed to operate 408 nos. of both B22 and E27 cap lamps (upto 100W rating) alternately mounted and wired parallel configured in to a three phase four wire balanced system with each phase supporting 136 lamps. That means, the total number of holders to be provided on the rack is as follows:

B22 cap lamp holders : 204nos (68 holders/phase)

E27 cap lamp holders : 204nos (68 holders/phase)

Typical details for fabrication of the ageing rack is shown in the drawing attached.

- 3.2 The mechanical structure of the rack shall be fabricated out of MS square sections of suitable size and thickness so that it is sturdy and having adequate mechanical stability and shall be powder coated so as to ensure that during the long and extended use of the equipment, it shall be durable and free from rusting.
- 3.3 The B22 cap lamp holders shall be of plunger type porcelain and the E27 cap lamp holders shall be of porcelain the inside barrel of which shall be of copper.
- 3.4 The holders shall be mounted on suitable MS sections and shall be powder coated with adequate spacing (minimum 153mm longitudinally and 230mm laterally) between one another for easy operation and shall be wired through heat resistant fiber glass insulated copper conductors of adequate current rating. The current rating of the conductors shall be so chosen as to keep the voltage drop between the point of measurement and the holder contacts within 0.1% of the test voltage. All other wiring shall also be done using fiber glass insulated copper cable.
- 3.5 A hinged panel of MS sheet metal of adequate thickness and powder coated shall be provided on the front side of the rack for housing switchgear, control gear and measuring instruments.
- 3.6 For each set of 17 lamp holders (both B22 and E27), there shall be an MCB of reputed make mounted on the front panel.

- 3.7 An isolator ON/OFF rotary switch of adequate current rating and reputed make shall be provided on the front panel for each phase for connecting/disconnecting the mains supply.
- 3.8 Indicator lamps (R Y B) shall be provided on the front panel for indicating the mains supply ON/OFF.
- 3.9 Three numbers of 3.5 digit digital panel meter of reputed make, 0.5% accuracy, 0 – 300VAC shall be provided on the front panel for measuring the input voltage to each set of 136 lamps (for each phase).
- 3.10 Three numbers of user programmable electronic timer (0 – 999minutes) along with power tripping devices shall be provided on the front panel for setting the ageing period of the lamps, so that after completion of the set ageing time, the power supply to the lamps shall be cut off automatically.
- 3.11 Suitable provision shall be made for keeping the three Auto transformers (40A, 0-270V, oil cooled) supplying adjustable power to each set of 136lamps (both B22 and E27) inside at the bottom of the rack.

4.0 Auto transformer

Three numbers of continuously variable voltage auto transformers, oil cooled, shall be provided on the rack. The specifications of the auto transformers are as follows:

Rated output current	: 40Amperes
Rated input voltage	: 240V
Rated output voltage range	: 0 – 270V
Rated frequency	: 50Hz
Number of phases	: Single phase
Type of cooling	: Natural oil cooled

The auto transformers shall be supplied with first filling of ISI marked transformer oil.

5.0 Calibration :

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

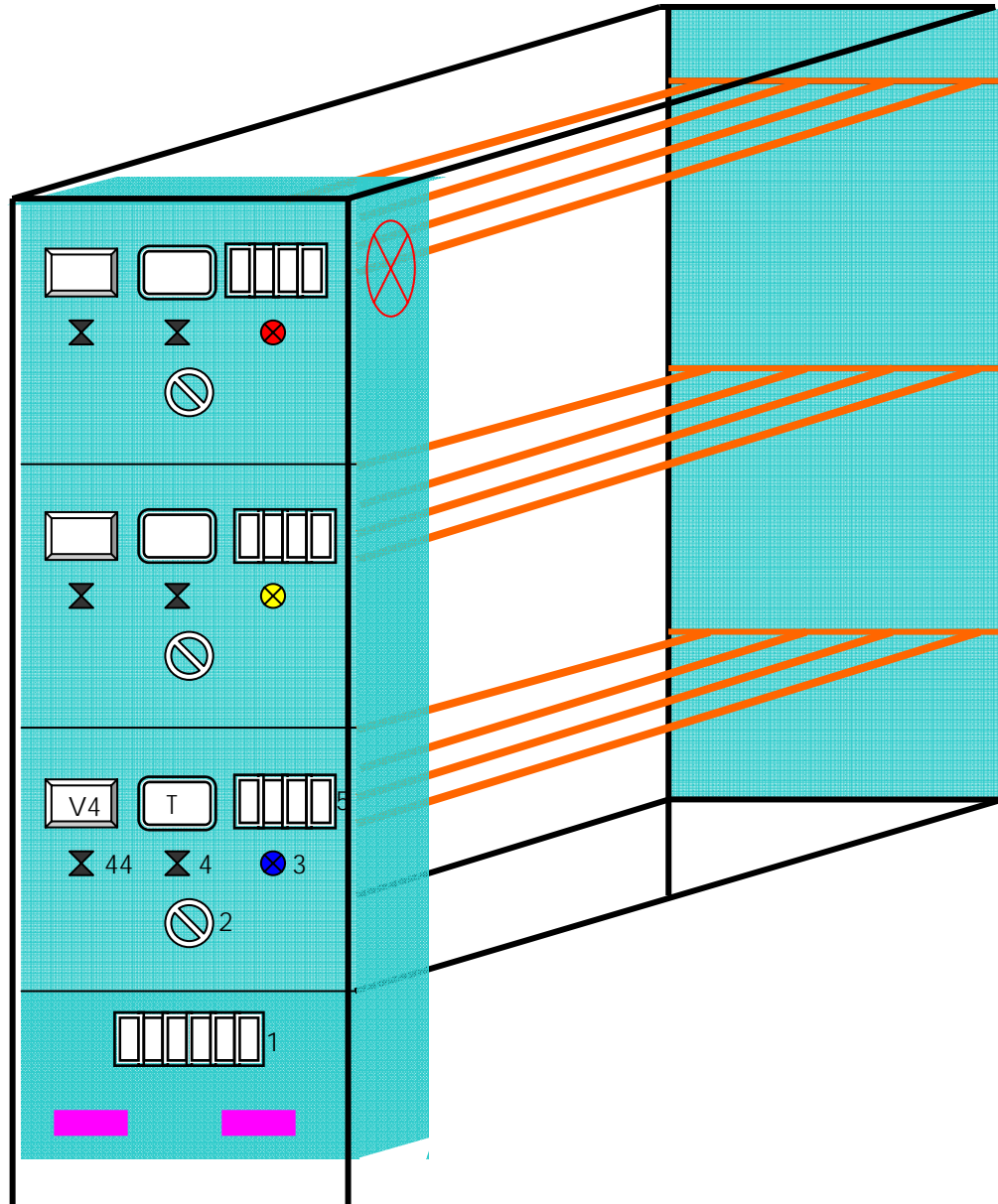
6.0 Documentation

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.

7.0 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.

AGEING RACK FOR GLS LAMPS



- 1 – DOUBLE POLE MCB, TYPE D, 63A – 03nos.
- 2 – ISOLATOR ROTARY SWITCH, 63A
- 3 – INDICATOR LAMP
- 4 – ON-OFF SWITCH FOR METER/TIMER
- 5 – SINGLE POLE MCB, TYPE B, 16A – 04nos.
- V – VOLTMETER(DPM), 0 – 300V, 3.5 digit, 0.5% accuracy
- T – PROGRAMMABLE TIMER, 0 – 999minutes with power tripping device
- ⊗ - COOLING FAN