

Our Fax No. 022 2826 2057

Our Ref: WROL/ 3:40

19.11.2008

**Subject:** Extension of date for Inviting Sealed Quotation (IN TWO BID SYSTEM) for supply of  
**“Normal Operation as well as Making Breaking Capacity Test Equipment”.**

To,

Dear Sirs,

As decided by competent authority that the submission of Technical & Commercial Bids invited for the supply of - **“Normal Operation as well as Making Breaking Capacity Test Equipment”** used for **Domestic and Similar Purposes as per IS 3854 : 1997 (including three amendments) and Plug & socket as per IS 1293 :2005 (including three amendments)**, extended upto **1400 h**, on **05 December 2008**, which should be dropped in **Tender Box** that shall be kept at the following address.

**Sc. ‘F’ & Head  
WRO Laboratory, “Manakalaya”  
Bureau of Indian Standards  
E-9, M.I.D.C., Behind Marol Telephone Exchange.  
Andheri (East),  
Mumbai 400 093**

The Bid envelops and the Technical Bid & EMD envelops contained in the Bid envelops shall be opened in the chamber of Sc. F & Head, WRO Laboratory at the address mentioned above at **1500 h on 05 December 2008** and in the presence of such tenderers or their duly authorized representatives, who may like to attend.

Other Terms and Conditions of supply will remain same.

Thanking you,

Yours faithfully,

**(Mohd. Rizwan)  
Sc. B & OIC Purchase  
Ph: 022-2832 9295**

Our Fax No. 022 2826 2057

Our Ref: WROL/ 3:40

17.10.2008

Subject: Inviting Sealed Quotation (IN TWO BID SYSTEM) for supply of “**Normal Operation as well as Making Breaking Capacity Test Equipment**”.

To,

Dear Sirs,

Technical & Commercial Bids are invited for the supply of - “**Normal Operation as well as Making Breaking Capacity Test Equipment**” used for **Domestic and Similar Purposes as per IS 3854 : 1997 (including three amendments) and Plug & socket as per IS 1293 :2005 (including three amendments)**, in SEPARATE SEALED covers, which should be dropped in **Tender Box** latest by **1400 h, on 17 November 2008** that shall be kept at the following address.

**Sc. ‘F’ & Head  
WRO Laboratory, “Manakalaya”  
Bureau of Indian Standards  
E-9, M.I.D.C., Behind Marol Telephone Exchange.  
Andheri (East),  
Mumbai 400 093**

1. Terms and Conditions of supply are given in **Annex-I**
2. The detailed specification(s) of the above mentioned equipment(s)/item(s) are given in **Annex-II**
3. The Bid envelopes and the Technical Bid & EMD envelopes contained in the Bid envelopes shall be opened in the chamber of Sc. F & Head, WRO Laboratory at the address mentioned above at **1500 h on 17 November 2008** and in the presence of such tenderers or their duly authorized representatives, who may like to attend.
4. Please ensure that the envelopes containing **Technical & Commercial Bids are sealed properly i.e. either wax sealed or with adhesive cello tape on both ends. Unsealed and stapled envelopes shall not be accepted. EMD Demand Draft / Pay Order (Rs. 25000/-) should be kept in a separate envelop and marked as EMD. It should not be kept inside Commercial Bid envelop.**

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5. The specification and terms & conditions can also be downloaded from BIS Website – [www.bis.org.in/other/tender.asp](http://www.bis.org.in/other/tender.asp)
6. Bid without EMD will be summarily rejected.
7. **Please note that the Technical Bid of only such bidders will be subjected to evaluation / Assessment, who make an explicit statement towards acceptance of our General Terms and Conditions of Supply, vide Annex I, especially acceptance of Payment Terms.**
8. Commercial Bids of only such bidders will be opened whose Technical Bid meet the Equipment Specification as laid down in Annexe II.
9. The Bidders whose Technical Bid qualify for acceptance will be informed about the date of opening of their Commercial Bid and will be permitted to remain present at the time of opening of Commercial Bid, if they so desire.

Thanking you,

Yours faithfully,

(Mohd. Rizwan)  
Sc. B & OIC Purchase  
Ph: 022-2832 9295

Encl: as above  
c.c : BIS Web Site

**ANNEX-I**

**“Normal Operation as well as Making Breaking Capacity Test Equipment”.**

**TERMS & CONDITIONS**

1. 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 Specifications.
2. The delivery of the equipment is required to be made within 60 days of receipt of order. If, it is not possible for you to effect delivery within the period, you are required to specify the date by which you can guarantee delivery of the equipment.
3. The **Technical & Commercial Bids with Ref No. & Date should be sealed and sent separately in sealed envelopes**. The Bids shall remain valid for a period of **120 days** from the date of opening of Technical Bid.

**3.1 The Technical Bid** - should accompany complete specification, manufacturer's name, address make & model No. of the equipment quoted, warranty period along with following details :

- a. Expected life span of equipment and accessories,
- b. List of infrastructural facilities and consumables to be arranged by the Bureau for installation and commissioning of equipment,
- c. List of Users in India with complete postal address to whom the similar equipment has been supplied,
- 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 photographs/drawings, if any.

**Note : Warranty Period of the equipment quoted should not be less than one year.**

**3.2** Cost of the items should be mentioned clearly in the **Commercial Bid** only. Under no circumstances cost of the equipment be declared in Technical Bid. It may be noted that the Cost declaration in Technical Bid is liable to make the Bid invalid. 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. Rebate on the quoted price, if additional equipment is procured for any other BIS Lab, and
- c. The Annual Maintenance Contract charges for next three years after the expiry of warranty period
- d. The rates quoted shall be valid for a period of **120 days** from the date of opening of the tender. However, the current values of the foreign currency would be applicable at the time of placing the order in case the rates are quoted in foreign currency.

*(Mohd. Rizwan)*  
**Sc. B & OIC Purchase**  
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**ANNEX-I (contd....)**  
**“Normal Operation as well as Making Breaking Capacity Test Equipment”**

**TERMS & CONDITIONS**

4. Quotations/Bids, qualified by indefinite expressions as “Subject to immediate acceptance, Subject to prior sale” etc. and incomplete quotations are liable to be summarily rejected.
- (a) Tenders not accompanied with Demand Draft towards “Earnest Money Deposit” will summarily be rejected.
  - (b) Tenders, which are submitted without following the Two-Bid Offer System, will summarily be rejected.
  - (c) Unsigned Tenders will also be rejected.
5. The rates quoted should separately indicate Basic Cost, Excise Duty, Sales Tax, P&F 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**
6. Each tender document shall be accompanied with **EMD of Rs. 25000/-**. The demand draft for the EMD amount shall be drawn in favour of BUREAU OF INDIAN STANDARDS payable at Mumbai. The sealed envelope containing EMD should be superscribed “**EMD**” and **stapled separately with the envelope containing the Technical Bid.**
7. Bid security (EMD) of the successful bidder shall be refunded on receipt of the equipment.
8. Bid security (EMD) of unsuccessful bidders shall be returned to them at the earliest after expiry of the final bid validity and latest on or before the 30<sup>th</sup> day after award of the contract
9. BIS shall pay 90 % of the cost, taxes in full along with other charges after satisfactory installation & commissioning and the Balance 10 % will be retained as Contract Performance Security and would be released after satisfactory expiry of Warranty Period (one year minimum). However, other terms of payment for Contract Performance Security can also be considered, if so stated clearly but the ‘Contract Performance Security’ should be valid during guarantee/warranty period.
10. The **warranty period** of the equipments **may be stated clearly** in the Technical Bids. In case the same is not found stated, it will be presumed that **warranty period as mentioned in their respective specifications of the quotation document (if specified), is applicable**

*(Mohd. Rizwan)*  
**Sc. B & OIC Purchase**

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**ANNEX-I (contd.)**

**“Normal Operation as well as Making Breaking Capacity Test Equipment”**

**TERMS & CONDITIONS**

11. Please mention clearly in the Technical Bids regarding address of **arrangements for service/repair** of the equipments is available. Suppliers having such arrangements near Mumbai would be preferred.

12. All goods received would be subjected to inspection, by BIS before or after receipt or commissioning (as applicable) and the decision of BIS shall be final & 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.

13. The Bureau reserves the right to accept or reject summarily and or all quotations/s in whole or part without assigning any reason whatsoever.

14. The Bureau takes no responsibility for delay, loss or non-receipt of quotations after despatch.

**15. In case of non compliance with the Terms & 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 schedule date subject to the ceiling of a maximum of 10% of the total value of the order.

16. All questions, disputes or difference arriving under, out of or in connection with this tender enquiry shall be subject to the exclusive jurisdiction of Mumbai Courts.

17. The authorised signatory of the bidder should sign with name & designation of the signatory spelt out on each page of the Technical as well as Commercial Bid.

**(Mohd. Rizwan)**  
**Sc. B & OIC Purchase**

**ANNEX II**

**Our Ref :** WROL/ 3 :40

17 October 2008

**Subject :** Inviting Sealed Quotation for supply of “**Normal Operation as well as Making Breaking Capacity Test Equipment**”

**Technical Specification**

**Normal Operation as well as Making Breaking Capacity Test Equipment for Testing of Switches for Domestic and Similar Purposes as per IS 3854 : 1997 (including three amendments) and Plug & socket as per IS 1293 :2005 (including three amendments)**

**A) Basic Testing Device /Unit (minimum requirements)**

The machine shall be capable of

- i) Operating on normal supply of voltage of 230/240 V AC, Single Phase
- ii) Testing will be done on three switches at a time; however mounting fixtures/arrangement shall be made for mounting six switches at a time of same type.
- iii) Testing Single Pole, Two Pole, Two-way switches and also Tumbler, Rocker, Push Button, cord Operated switches of Surface/Flush/ Semi-flush mounting type.
- iv) Measuring ON - OFF i.e operating cycles through digital counter (99999 cycles). The counters shall be such that in the event of shorting of the switch or open circuiting of the switch under test, the counters will stop further counting.
- v) Electronic time controller to adjust operating cycle time from 0.5 sec to 60 seconds required during testing of switches. It shall be possible to adjust the operating time in three ways :
  - a) ON – OFF time shall be equal,
  - b) ON period 25 %  $\pm$  5 % of the total cycle and
  - c) OFF period 75 %  $\pm$  5 % of the total cycle.

It shall be possible to adjust operating time independently for ON as well as OFF operation.

- Vii) The device for operation of switches for ON – OFF shall be separate and shall be such that it should be possible to exert required force to operate the same.
- vii) Other necessary controls and indicators - cum - controllers for safe use as well as easy handling of the equipment.

***M.D Chilakwad***  
***Sc. E & OIC (Electrical)***

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## ANNEX II

**Normal Operation as well as Making Breaking Capacity Test Equipment for Testing of Switches for Domestic and Similar Purposes as per IS 3854 : 1997 (including three amendments) and Plug & socket as per IS 1293 :2005 (including three amendments)**

### **B) Load Requirements (Load Panel)**

The loads shall be capable for operation on

- i) Rated Voltage : 220V/230V/240V/250V AC
- ii) There shall be provision to increase the voltage upto 110 % of the rated with suitable VA capacity.
- iii) Current : There shall be 6 independent loads of 6A and 3 independent loads of 4A at all rated voltages (enable to combine three 4A loads with 6A loads to test 10A rated switches) mentioned with a power factors as under:

- 6A at rated voltage mentioned above & with pf  $0.6 \pm 0.05$  lag
- 10A at rated voltage mentioned above & with pf  $0.6 \pm 0.05$  lag
- 6A at rated voltage mentioned above & with pf  $0.8 \pm 0.05$  lag
- 7.5A at 110 % of rated voltage mentioned above & with pf  $0.3 \pm 0.05$  lag
- 12.5A at 110 % of rated voltage mentioned above & with pf  $0.3 \pm 0.05$  lag
- 7.5A at 110 % of rated voltage mentioned above & with pf  $0.6 \pm 0.05$  lag

- iv) The load shall be such that resistors and inductors are not connected in parallel, except that if an air-core inductor is used, a resistor taking approximately 1 % of the current through the inductor is connected in parallel with it. Iron-core inductors may be used provided the current has substantially sine-wave form.
- v) For X rated switches ( momentary contact/bell push), incandescent lamp as given in IS 3854 : 1997 shall be provided. Switch with a rated current not exceeding 16 A except switches of pattern numbers 3 & 03 and momentary contact switches, should have fluorescent lamp current rating equal to the rated current (Fig. 1
- vi) The panel shall have following meters mounted on it:
  - a) Digital ac volt meter : Range 0 - 600 V; LC 0.1V, Accuracy 1 % or better
  - b) Digital ac ammeter : Range 0 - 100 A; LC 0.1 A; Accuracy 1 % or better
  - c) Digital power factor meter : Range 0.3 lead to 0.3 lag, LC 0.05 Hz.
  - d) There shall be separate i.e. 6 digital counters to measures cycles of 40000 operations with preset arrangement with memory.

### **C) Rate of Operation :**

- a) 30 operations per minute if the rated current does not exceed 10 A
- b) 15 operations per minute if the rated current exceeds 10 A, but is less than 25 A.
- c) 7.5 operations per minute if the rated current is more than 25 A.

### **D) Drawings and Guiding Figures:**

Relevant drawing and figures (Fig 10,13,14) from IS 3854 : 1997 & (Fig 12) from IS 1293 :2005 as well as detailed description of the test is enclosed)

*M.D Chilakwad*  
*Sc. E & OIC (Electrical)*