

Our Ref: CL/PP/BID-12 (06-07)

Date: 05-02-2006

**Subject: SUPPLY OF COMPUTERIZED TEST SYSTEM FOR 28 DAY TEST
FOR MCB .**

Dear Sirs,

Technical & Commercial Bids are invited for the supply of **28-Days Test Apparatus**, in separate **SEALED** covers, which should reach the undersigned latest by 1700 h, on **26 Feb 2007**, at the following address.

Director & Head (Planning & Purchase)
BUREAU OF INDIAN STANDARDS
Central Laboratory
Plot No.20/9, Site-IV,
Sahibabad Industrial Area, Sahibabad,
Distt. Ghaziabad-201010 (U.P.)

2. The detailed specification(s) of the above mentioned equipment(s)/item(s) are given in **Annex-I**

3. Terms and conditions of supply are given in **Annex-II**

4. The technical Bids shall be opened in the **Conference Hall**, of the Central Lab, at the address mentioned above at **1500 h on 27 Feb 2007** and in the presence of such tenderers or their duly authorized representatives, who may like to attend.

5. Please note that the envelopes containing Technical & Commercial Bids are sealed properly i.e. either wax sealed or with adhesive cello tape on both ends. **Unsigned Bids, Unsealed /stapled envelopes** and bids **without EMD** shall be summarily rejected. **No exemption** whatsoever for payment of EMD shall be accorded.

6. The specification and terms & conditions can also be downloaded from BIS Website – www.bis.org.in

Thanking you,

Encls: as above

Yours faithfully,

--Sd/--
Head (Planning & Purchase)

Annex I
BUREAU OF INDIAN STANDARDS
CENTRAL LABRATORY
EQUIPMENT SPECIFICATION

EQUIPMENT /SPECIFICATION CODE : CCE 11

NAME OF THE EQUIPMENT : 28-days Test Apparatus

PROPOSED FOR BIS LABS : CL ELECTRICAL

TOTAL QUANTITY REQUIRED : One

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Type of Equipment: Computerized Test System for 28day test on MCB.
IS 8828:1996.

Reference : Cl.9.9 of IS:8828-1996

Features:

1. The Computerized test system shall consists of:
 - a) Computer with Pentium based software to run the system and printer.
 - b) UPS for computer shall be on line and shall have backup power of at least 2 hour.
 - c) Printer to printout the test parameters.
2. The computerized system shall be capable to test samples of MCB of rated current 6, 8, 10, 16, 20, 25, 32, 40 and 63A.
3. Equipment shall have independent variable current source (0-100A) whose open circuit voltage shall be at least 30 V, for each sample of MCB under test.
4. Equipment shall be able to test 6 different ratings of MCBs from different current sources simultaneously with a provision to test a minimum of 18 pieces of each rating from each current source.
5. Equipment shall be capable to supply current to individual MCBs for a cycle comprising 21 hour with a current equal to rated current and 3 hour without current under test condition for 28days continuously.
6. Equipment shall automatically switch off the individual MCB test circuit after completion of 672 hours (Total-28 days).
7. Equipment shall have digital Ammeter (0-100 A) and Voltmeter (0-50V) to indicate current and voltage of individual current source.

8. Equipment shall be capable to measure the temperature rise of the terminals for external connections of individual MCB.
9. Equipment shall have provision to record failure time of individual MCB.
10. All these instruments shall be detachable to facilitate their calibration/repair/replacement.
11. Equipment shall have provision to ensure continuity of current in the individual test circuit of MCB if one or two pieces of that circuit fails.
12. System shall ensure set value of test current in individual MCB test circuit throughout the testing period by providing suitable microprocessor control and Programmable Logic Control.
13. Miniature Circuit breakers are to be wired with the appropriate cable specified in table 8 of IS:8828-1996 and mounted on a dull black painted plywood of about 20mm thickness.
14. System shall have arrangement to measure the millivolt drop and watt-loss across individual MCB under test.
15. Power supply --Single phase, 230/240V, 50±5Hz, ac.
16. The computerized system shall be capable to monitor / control /display / record and print the following data of each MCB separately at the time of failure/ completion of test / at any required time:
 - a) Address of the each MCB (e.g. E-1111111)
 - b) Temperature rise of the terminals of each MCB.
 - c) Tripping time of each MCB.
 - d) Date and time of failure/ completion of the MCB.
 - e) Test current, voltage, power-loss and hours.
 - f) Date and time of start of time.
17. The apparatus shall have the provision to mount the MCBs as in normal use without using special type of tools.
18. The system shall be safe from dust, corrosion and electric shock and have adequate mechanical strength.
19. All measuring instruments shall be supplied with calibration certificates from NABL approved calibration agency.
20. Service of the test system shall be available in / around Delhi.
21. Supplier of this system shall give comprehensive warranty of at least one year from the date of commissioning.

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 stores is required to be made within 30 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 stores.
3. The **Technical & Commercial Bids should be sealed and sent separately in sealed envelopes**. Such Bids shall remain valid for a period of 90 days from the date of opening.
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.
5. The Bids should clearly give break-up of cost of each equipment. 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 3% of cost of the equipment**. The demand draft for the EMD amount shall be drawn in favour of BUREAU OF INDIAN STANDARDS payable at Sahibabad/Ghaziabad. The sealed envelope containing EMD should be superscribed “EMD” and **stapled separately with the envelope containing the commercial Bids**.
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. However other terms of payment for contract performance security can also be considered, if so stated clearly.
8. 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 tender document (if specified), is applicable.
9. Please mention clearly in the Technical Bids regarding address of **arrangements for service/repair** of the equipments are available. Suppliers having such arrangements near Delhi/Ghaziabad would be preferred.
10. 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 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.
11. The Bureau reserves the right to accept or reject summarily and or all tenders in whole or part without assigning any reason whatsoever.
12. The Bureau takes no responsibility for delay, loss or non-receipt of tenders after dispatch.
13. 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 specification.
 - 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.
14. All questions, disputes or difference arriving under, out of or in connection with this tender enquiry shall be subject to the exclusive jurisdiction of Delhi/ Ghaziabad Courts.