

Ref: CL/PP/BID-10(07-08)

Date: 08-06-2007

**Subject: SUPPLY OF DEFLECTION TEST APPARATUS FOR SCREWLESS
TERMINALS for CL**

Dear Sirs,

Technical & Commercial Bids are invited for the supply of **DEFLECTION TEST APPARATUS FOR SCREWLESS TERMINALS** for CL, in **separate SEALED** covers, which should reach the undersigned latest by 1700 h, on **29 June 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 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 02 July 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 & Unstamped Bids in 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,

Encl.: as above

Yours faithfully,

-Sd/-

Director & Head (Planning & Purchase)

ANNEX-I

DEFLECTION TEST APPARATUS FOR SCREW LESS TERMINALS

- Name of Equipment : Deflection test Apparatus for Screw less terminals
- Purpose : To check electrical and thermal stresses of screw less terminals of Socket outlets
- Reference (Page-17), : Cl.12.3.11 (Page-16), Fig.33 (Page-70) & Cl.12.3.12 Fig.33 A&B (Page-70) of IS: 1293-2005.
- Capacity : Apparatus shall be capable to test 5 Nos. of screw less terminals of socket outlets of 2.5A, 6/10A and 16A rating.
- Features of apparatus :
- 1.1 Apparatus shall be strictly as per Cl 12.3.11 (Page-16) & 12.3.12 (Page-17) Fig 33A & 33 B (Page-70) of IS: 1293-2005.
 - 1.2 It shall be suitable to work at 230 Volt, 50 Hz, ac supply.
 - 1.3 The apparatus shall have the provision to mount the Socket outlets (2.5A, 6/10A and 16A) as in normal use without using special tools.
 - 1.4 The apparatus shall be able to accommodate following types of socket outlets:
 - a) Surface Type
 - b) Flush type
 - c) Semi flush type
 - d) Panel type
 - e) Architrave type
 - f) Portable type
 - g) Table type
 - h) Floor recessed type, and
 - i) Appliance type
 - 1.5 A suitable and variable low voltage high current source shall be provided with test apparatus to apply test current from 0 to 100 Amp.

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- 1.6 Provision to apply 0 to 500 adjustable temperature cycles shall be provided. Each temperature cycle of approximately 1 h comprises 30 min with current flowing and 30 min without current flowing.
- 1.7 Provision to display and record the temperature cycles shall be provided with the equipment.
- 1.8 The apparatus shall have the provision to switch off the equipment after completion of 192 temperature cycles.
- 1.9 Provision to measure the mili voltage drop across the terminals at rated and test current, shall be provided with the apparatus.
- 1.10 Apparatus shall have deflection device as per CI 12.3.12 and provision to measure deflection angle.
- 1.11 Test current shall be maintained with in a variation of ± 5 % during the test.
- 1.12 Provision to apply variable force (0 to 2 N) to the conductor shall be provided.
- 1.13 Following digital panel type instrument shall be supplied with apparatus with Class 0.5 (at least):
 - a) Ammeter (0-100A)
 - b) Mili voltmeter (0-100 mV)
 - c) Counter (pre-settable)
 - d) Force meter (0-2.0N)
 - e) Deflection Measuring Device (LC = 1^o)
- 1.14 The instruments shall be supplied with Calibration Certificate from NABL approved Calibration Agency.
- 1.15 Audio buzzer for drawing attention shall be provided for completion of test and any short circuit during the test.
- 1.16 The apparatus shall be warranted for minimum one year of satisfactory operation.

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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 & duly superscribed (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 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 total cost of the equipment (excluding taxes)**. 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 super scribed “EMD” and **stapled separately with the envelope containing the commercial Bids. No disclosure of EMD in Tech. Bid.**
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.