

Ref: CL/PP/BID-17(07-08)

Date: 30-10-2007

**Subject: SUPPLY OF D.C. H V TESTER WITH WATER BATH for CL**

Dear Sirs,

Technical & Commercial Bids are invited for the supply of **D.C. H V TESTER WITH WATER BATH**, in **separate SEALED** covers, which should reach the undersigned latest by 1700 h, on **21 Nov. 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 22 Nov. 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](http://www.bis.org.in)

Thanking you,

Encl.: as above

Yours faithfully,

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

ANNEX I

BUREAU OF INDIAN STANDARDS  
CENTRAL LABRATORY  
EQUIPMENT SPECIFICATION

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EQUIPMENT /SPECIFICATION CODE	:	BCE 02
NAME OF THE EQUIPMENT	:	D.C. H V TESTER
PROPOSED FOR BIS LABS	:	CL ELECTRICAL
TOTAL QUANTITY REQUIRED	:	One

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Purpose	:	To carry out DC High Voltage Test on Cables
Reference	:	IS:694-1990 & IS: 1554(Part-1)-1988
Output	:	0- 2 KV DC with H.T. (- ve) Pole, L.T. (+ve) Earth with accuracy = $\pm 1$ % of set value
Measurement of DC Voltage	:	On Secondary side across the output terminals with digital display having accuracy of Class 0.5 and LC = 0.01 KV
Input Supply	:	1 Phase, 230 V, A.C., 50 Hz
Water Bath	:	Refer <b>Annexure -1</b> for detailed specification

Features	:	<ul style="list-style-type: none"><li>i) HV Test Unit shall have H V Tester and water bath.</li><li>ii) Shall have arrangement for testing of 24 samples at a time. It shall be capable of running for 240 Hrs. without interruption.</li><li>iii) Shall be able to detect and isolate the failure sample without affecting the other samples under test with suitable microprocessor based programme.</li><li>iv) Microprocessor window based system to indicate and record temperature of water bath, DC voltage, total running time and individual sample failure time with interlinking to PC and Printer through suitable port.</li></ul>
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- v) Out put voltage shall be maintained constant free from switching transients and fluctuations.
- vi) H V Test System shall be provided with two separate UPS of 2 hours line back up and adequate capacity with maintenance free storage batteries; each for PC and DC High Voltage unit excluding water bath.
- vii) All measuring devices shall be supplied with calibration certificate from NABL accredited agency.

**Annexure-1 to BCE 02**  
**BUREAU OF INDIAN STANDARDS**  
**CENTRAL LABRATORY**  
**EQUIPMENT SPECIFICATION**

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<b>EQUIPMENT /SPECIFICATION CODE</b>	<b>:</b>	<b>BCE 02</b>
<b>NAME OF THE EQUIPMENT</b>	<b>:</b>	<b>WATER BATH FOR DC HV TEST</b>
<b>PROPOSED FOR BIS LABS</b>	<b>:</b>	<b>CL ELECTRICAL</b>
<b>TOTAL QUANTITY REQUIRED</b>	<b>:</b>	<b>One</b>

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Type	:	Electrically operated thermostatically controlled Water Bath
Purpose on PVC	:	To immerse cable sample specimen for carrying out DC HV Test Insulated Cables
Reference IS	:	IS :694-1990 IS :1554(Part-1&2)-1988
Dimensions	:	Length = 2000 mm. Breadth = 600 mm Depth = 1200 mm.
Required Temp. range	:	0 – 100 °C(approx.)

Normal used temperature : 60 °C

Requirements :

- i)** It shall be PID controlled having accuracy of  $\pm 1^{\circ}\text{C}$  of set value.
- ii)** Shall be provided with digital temperature indicator with LC  $0.1^{\circ}\text{C}$  to indicate the temp of water inside the water bath.
- iii)** It shall be attached with water float valve with appropriate drainage system.
- iv)** Outer body of water bath shall be of powder coated steel plate with resin baking finish.
- v)** Inner tank of the water bath shall be made of stainless steel sheet of atleast 2 mm thickness.
- vi)** Sufficient number of heating element shall be fitted for quick attainment of the required temperature.
- vii)** Shall have provision to maintain uniform temperature of water inside the water bath.
- viii)** Suitable provision to be provided to minimize the heat loss from the surface of water.
- ix)** Water bath shall have proper earthing to bypass the fault current in case of internal short-circuit.
- x)** Suitable wheels shall be provided to make it movable.
- xi)** Temperature measuring device shall be supplied with calibration certificate from NABL accredited lab.

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.