

Ref: CL/DCLE/10:7/BID-02 (09-10)

Date: 11-02-2010

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 **04 March 2010**, 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 05 March 2010** 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,

Yours faithfully,

Encl.: as above

Director & Head (Electrical)
Ph. 0120 - 4177130
Email: cle@bis.org.in

**BUREAU OF INDIAN STANDARDS
CENTRAL LABRATORY
EQUIPMENT SPECIFICATION**

EQUIPMENT /SPECIFICATION CODE : BCE 02

NAME OF THE EQUIPMENT : D.C. H V TESTER

PROPOSED FOR BIS LABS : CL ELECTRICAL

TOTAL QUANTITY REQUIRED : One

Purpose : To carry out DC High Voltage Test on Cables

Reference : IS: 694 -1990 [Cl.16.2.2] & IS: 1554(Part-1)-1988 [Cl.16.3.2]

Output : 0- 2 KV DC with H.T. (- ve) Pole, L.T. (+ve)
Earth with accuracy = ± 1 % of set value

Measurement of DC : On Secondary side across the output terminals DC Voltage
with digital display having accuracy of Class 0.5 and
LC = 0.01 KV, range up to 2 KV

Input Supply : 1 Phase, 230 V, A.C., 50 Hz

Water Bath : Refer Annexure -1 [for detailed specification]

UPS : Refer Annexure -II [for detailed specification]

Requirements : i) HV Test Unit shall have H V Tester, UPS, Water bath,
interfacing / Recording unit and printer.

ii) Shall have arrangement for testing of 24 samples at a time. It
shall be capable of running for 240 Hrs. without
interruption.

iii) Shall be able to detect and isolate the failure sample without
affecting the other samples under test with suitable
microprocessor based recording programme.

iv) Microprocessor / window based system for monitoring &
recording to indicate and record temperature of water bath, DC
voltage, total running time and individual sample failure time
with interlinking to recording system through suitable port.

- v) Out put voltage shall be maintained constant free from switching transients and fluctuations.
- vi) All measuring devices shall be supplied with calibration certificates preferable from NABL accredited agency with traceability to National Standards.
- vii) Service/repair backup of the test system shall be available in around Delhi.
- viii) The supplier shall give comprehensive warranty of atleast one year from the date of commissioning.

**BUREAU OF INDIAN STANDARDS
CENTRAL LABRATORY
EQUIPMENT SPECIFICATION**

EQUIPMENT /SPECIFICATION CODE : BCE 02
NAME OF THE EQUIPMENT : WATER BATH
PROPOSED FOR BIS LABS : CL ELECTRICAL
TOTAL QUANTITY REQUIRED : One

=====

Type Bath : Electrically operated thermostatically controlled Water

Purpose : To immerse cable sample specimen for carrying out DC HV Test on PVC 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 ± 3 °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°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 of 2mm 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)** Wather bath shall have proper earthing to bypass the fault current in case of internal short-circuit.
- ix)** Suitable wheels shall be provided to make it movable.
- x)** Temperature measuring and indicating device shall be supplied with calibration certificate prefeably from NABL accredited lab.
- xi)** The supplier shall give comprehensive warranty of atleast one year from the date of commissioning.
- xii)** Service of the test system shall be available in / around Delhi.

**BUREAU OF INDIAN STANDARDS
CENTRAL LABRATORY
EQUIPMENT SPECIFICATION**

EQUIPMENT /SPECIFICATION CODE :	BCE 02
NAME OF THE EQUIPMENT	: UPS
PROPOSED FOR BIS LABS	: CL ELECTRICAL
TOTAL QUANTITY REQUIRED	: One
=====	
Type	: Online UPS with Maintenance Free Batteries
Purpose	: To provide power supply to DC HV Tester
Input Supply	: Single Phase, 160 V to 270 V, AC, 50 Hz
Out Put	: Single Phase, 230 V, AC, Pure Sine Wave
Type	: On Line
Capacity	: 3 KVA, 1 Hrs. Backup Supply
Steady State Voltage Regulation :	± 0.5 %

=====

=====

- Requirements :
1. Capacity shall be 3 KVA, online to support all the testing & monitoring system of DC HV Tester.
 2. Body of UPS shall be of power coated, steel plate with resin baking finish.
 3. Suitable wheels shall be provided to make it movable.
 4. Batteries shall be maintenance free with adequate AH to maintain backup time.
 5. Suitable battery rack of powder coated steel plate with resin baking finish and suitable wheels shall be provided to make it movable, with the UPS.
 6. The supplier shall give comprehensive warranty of atleast one year from the date of commissioning.
 7. Service of the test system shall be available in / around Delhi.

ANNEX-III
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 affect 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 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. PAN / TIN shall be mentioned in financial bids.**
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 super scribed "**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 **shall be at least 1 year and be stated in the Technical Bids**.
9. Please mention clearly in the Technical Bids regarding address of **arrangements for service/repair** of the equipments is 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.