



भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDARDS

Address: B-69, Phase VII,
Industrial Focal Point,
SAS Nagar, MOHALI-
160059

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Northern Regional Laboratory

Ref: NROL/Elect/BID-01(12-13)

Date: 28-12-2012

Subject: Supply of dc High Voltage Test Apparatus with Data Logger and Water Bath – 1 no

Dear Sirs,

Technical & Financial Bids are invited for the supply of **dc High Voltage Test Apparatus with Data Logger and Water Bath**, in separate **SEALED** covers, which should reach the undersigned latest by 1500 h, on **24-01-2013**, at the following address.

Scientist- F & Head
BUREAU OF INDIAN STANDARDS
Northern Regional Laboratory,
Plot No. B-69, Phase- VII,
Industrial Focal Point, Mohali
Pin – 160 059
(or)

The sealed Bids can also be dropped in the Tender Box placed at the main entrance of BIS NRO Laboratory.

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 NRO Lab, at the address mentioned above at **1600 h on 24-01-2013** 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 & Financials 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. The envelope containing EMD shall be stapled separately with the envelope containing the commercial Bids.

6. The specification and Terms & Conditions can also be downloaded from Central Public Procurement portal www.eprocure.gov.in and also from BIS Website – www.bis.org.in .

Thanking you,

Encls.: **as above**

Yours faithfully,

(ANIL KUMAR)

Scientist-F & Head

ANNEX 1

BUREAU OF INDIAN STANDARDS NRO LAB MOHALI EQUIPMENT SPECIFICATION

EQUIPMENT /SPECIFICATION	:	NE 03
NAME OF THE EQUIPMENT	:	D.C. H V TESTER
PROPOSED FOR BIS LABS	:	NRO LAB 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 (Pt.1)-1988 (Cl.16.3.2)
Output	:	0-2 KV DC with H.T. (-ve) Pole, L.T. (+ve) Earth with accuracy = $\pm 1\%$ 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 2KV
Input Supply	:	1 Phase, 230 V, AC 50 Hz
Water Bath	:	Refer Equipment/ Specification NE 01(page nos. 4 and 5)
UPS	:	Refer Equipment/ Specification NE 02 (page no. 6)

Requirement	:	<ul style="list-style-type: none">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 h 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.
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Indicate only Yes /No against each requirement stated above
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BUREAU OF INDIAN STANDARDS
NRO LAB MOHALI
EQUIPMENT SPECIFICATION

EQUIPMENT /SPECIFICATION	:	NE 03
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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 2KV
Input Supply	:	1 Phase, 230 V, AC 50 Hz
Water Bath	:	Refer Equipment/ Specification NE 01(page nos. 4 and 5)
UPS	:	Refer Equipment/ Specification NE 02 (page no. 6)

- vi) All measuring devices shall be supplied with calibration certificates from NABL accredited lab with traceability to National Standards.
- vii) Provision of cooling for panel shall be provided
- viii) Interlocking shall be provided at each DC/HV set up port.
- ix) Earthing terminal shall be provided.

Indicate only Yes /No against each requirement stated above

BUREAU OF INDIAN STANDARDS
NRO LAB MOHALI
EQUIPMENT SPECIFICATION

EQUIPMENT /SPECIFICATION	:	NE 01
NAME OF THE EQUIPMENT	:	WATER BATH
PROPOSED FOR BIS LABS	:	NRO LAB ELECTRICAL
TOTAL QUANTITY REQUIRED	:	One

Type	:	Electrically operated thermostatically controlled water Bath
Purpose	:	To immerse cable sample specimen for carrying out DC HV test on PVC Insulated Cables
Reference IS	:	IS: 694-1990 & IS: 1554 (Pt.1)-1988
Dimensions	:	Length = 2000mm. Breadth = 600mm Depth = 1200mm
Required Temperature range	:	0 - 100°C (approx)
Normal used temperature	:	60 ± 3°C

Requirements	:	<ul style="list-style-type: none">i) It shall be PID controlled having accuracy of ± 1 °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 equipped with water float valve and 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 at least of 2mm thickness.vi) Sufficient number of heating element shall be fitted for quick attainment of the required temperature.
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Indicate only Yes /No against each requirement stated above

BUREAU OF INDIAN STANDARDS
NRO LAB MOHALI
EQUIPMENT SPECIFICATION

EQUIPMENT /SPECIFICATION	:	NE 01
NAME OF THE EQUIPMENT	:	WATER BATH
PROPOSED FOR BIS LABS	:	NRO LAB ELECTRICAL
TOTAL QUANTITY REQUIRED	:	One

Type	:	Electrically operated thermostatically controlled water Bath
Purpose	:	To immerse cable sample specimen for carrying out DC HV test on PVC Insulated Cables
Reference IS	:	IS: 694-1990 & IS: 1554 (Pt.1)-1988
Dimensions	:	Length = 2000mm. Breadth = 600mm Depth = 1200mm
Required Temp. range	:	0 - 100°C (approx)
Normal used temperature	:	60 ± 3°C

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- vii) Shall have provision to maintain uniform temperature of water inside the water bath through water circulation pump etc.
 - viii) Water bath shall have proper earthing to bypass the fault current in case of internal short-circuit.
 - ix) Suitable insulated material wheels shall be provided to make it movable.
 - x) Temperature measuring and indicating device shall be Supplied with calibration certificate from NABL accredited lab.
 - xi) Inlet for float valve shall be provided.
 - xii) Suitable terminal connection shall be provided for DC supply.
 - xiii) Provision shall be provided for holding the samples.
 - xiv) Earthing terminals shall be provided.

Indicate only Yes /No against each requirement stated above
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BUREAU OF INDIAN STANDARDS
NRO LAB MOHALI
EQUIPMENT SPECIFICATION

EQUIPMENT /SPECIFICATION	:	NE 02
NAME OF THE EQUIPMENT	:	UPS
PROPOSED FOR BIS LABS	:	NRO LAB 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, 160V to 270V, AC, 50 Hz
Output	:	Single Phase 230V, AC, Pure Sine Wave
Type	:	Online
Capacity	:	3 KVA, 1h. Backup Supply
Steady State Voltage Regulation	:	$\pm 0.5\%$

Requirement	:	<ul style="list-style-type: none">i) Capacity shall be 3 KVA online to support all the testing & monitoring system of DC HV Tester.ii) Body of UPS shall be of power coated, steel plate with resin baking finish.iii) Suitable wheels shall be provided to make it movable.iv) Batteries shall be maintenance free with adequate AH to maintain backup time.v) 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.
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Indicate only Yes /No against each requirement stated above

ANNEX-II
BUREAU OF INDIAN STANDARDS
Northern Regional Laboratory,
Plot No. B-69, Phase- VII,
Industrial Focal Point, Mohali-160059, Punjab

TERMS & CONDITIONS

1. The Bidders are requested to give detailed tender in the forms of two bids i.e.
Part - A Technical Bid.
Part - B Financial Bid.
2. **The Technical & Financial Bids should be sealed and sent separately in sealed envelopes & duly super-scribed (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 120 days from the date of opening.
3. Each page of the blank tender documents must be duly signed with seal affixed as a token of acceptance of tender conditions, specifications, format etc and the same shall be submitted along with the technical bid, failing which the tenders shall be rejected.
4. Bidders may be required to arrange practical demonstration of equipment/model quoted by them before opening of the financial bid.
5. The Technical Bid [Part A] should accompany complete specification, Manufacturer's name, address and following details :
 - a. Expected life span of equipment and accessories.
 - b. List of pre-installation facilities required for installation and commissioning of equipment and also consumables to be arranged by the Bureau,
 - c. List of the Users in India especially Govt. Labs. /Institutes with complete postal address to whom the similar equipment has been supplied,
 - d. Nearby 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 clause wise photograph/drawings, if any
 - g. Compliance statement vis-à-vis specification clause s, including statement of deviation, if any (Annex-III).**
 - h. Delivery Period:** The delivery of the equipment is required to be made within 90 days of the date 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.
 - j. Warranty:** The equipment is to be guaranteed for trouble free performance for a **minimum period of two years after commissioning.** The defects, if any, during the warranty period are to be rectified free of charge by arranging free replacement wherever necessary.
 - k. The Bidders are required to furnish the Permanent Account Number (PAN)/TIN of the firm Allotted by the Income Tax Department.

5. **Liquidated Damages:** If the supplier fails to supply and demonstrate the performance as given in the tender within the delivery period committed, BIS shall impose liquidated damages @ 0.1 % of the cost of the equipment for every day of delay.
6. **Replacement of rejected materials:** The material rejected at the sole discretion of BIS against a supply must be replaced by the supplier free of cost, on receiving such information from BIS within 7 days. Rejected items/ goods/ equipments/ stores shall be removed by the supplier at his own cost and risk, within thirty days of issue of notice by BIS for removal of such goods otherwise demurrage charges @ 1 % of the cost of the equipment shall be levied and payable by the tenderer . BIS shall not bear any liability, whatsoever, for such rejected items.
7. Each tender document shall be accompanied with **EMD of Rs 25000.00**. The demand draft for the EMD amount shall be drawn in favour of BUREAU OF INDIAN STANDARDS payable at Chandigarh. The sealed envelope containing EMD should be super scribed “**EMD**” and **stapled separately with the envelope containing the commercial Bids. No disclosure of amount of EMD should be done in the Technical Bid.**
8. Cost of the items should be mentioned clearly in the **Financial Bid [Part-B]** only. 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) The rates quoted should separately indicate Basic Cost, Excise Duty, Sales Tax, Packing & Forwarding 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. In case of foreign supplier BIS shall pay Custom Duty.**
 - c) Rebate on the quoted price, if additional equipment is procured for any other BIS Lab, and
 - d) The Annual Maintenance Contract charges for next three years after the expiry of warranty period.
 - e) CIF (Carriage Inward & Freight), Mohali value both by Airfreight and Ocean freight, where applicable.
 - f) For foreign supplier the current value of the foreign currency would be applicable at the time of placing the order.
5. 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. **In case of foreign suppliers** 100% payment shall be made by an Irrevocable Letter of Credit established in favour of the supplier through the Canara Bank, DDU Marg, New Delhi, for the order value provided an unconditional Performance Bank Guarantee valid till 60 days after the warranty period from a Nationalized Bank for 10% of the order value within 15 days of placement of the order is given to us. The Agency Commission to the Indian Clearing Agent will not be paid by the Bureau. The firm has to arrange for it. BIS shall provide Custom Duty Exemption Certificate at the time of Custom Clearance as well as any applicable Custom Duty.
6. Place of Delivery:
 - Head (NROL)
 - BUREAU OF INDIAN STANDARDS LABORATORY
 - B- 69, Industrial Focal Point Phase VII,
 - SAS Nagar, Mohali (Punjab)-160059

9. Quotations/bids qualified by indefinite expressions such as “Subject to immediate acceptance” etc. and incomplete quotations are liable to be summarily rejected.
10. In case of foreign quotation, the address of Principal / Manufacturer and their Banker’s details should be furnished. The supplier is required to have an import license for the equipment quoted where applicable as per GOI guidelines.
11. All goods shall be inspected by BIS preferably in the presence of supplier or his authorized representative, when the packages are opened in Labs prior to installation. 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.
12. INSTALLATION: Bidder shall be responsible for installation / demonstration wherever applicable and for after sales service during the warranty and thereafter. If the supplier fails to supply, install and commission the system as per specifications mentioned in the order within the due date, the Supplier is liable to pay Penalty of one percent of the value of Purchase Order awarded per every seven days delay, subject to a maximum of 10% of the total value of the order and such money will be deducted from any money due or which may become due to the supplier.
13. The supply of spare parts is to be guaranteed at least for a period of 10 years after the supply of the equipment.
14. The Bureau reserves the right to accept or reject summarily and/or all tenders in whole or part without assigning any reason whatsoever.
15. The Date and Time of opening for Part B (Financial Bid) will be intimated only to technically acceptable/qualified tenderers at a later date.
16. In case of any dispute arising out of this agreement then DG BIS shall nominate any officer of the BIS a sole arbitrator to adjudicate upon the issue involved in the dispute and the provisions of the Arbitration Act shall be applicable.
17. All question, disputes or differences arising under, out of or in connection with this Bid document shall be subject to the exclusive jurisdiction of Chandigarh/ Mohali Court.

**Sc- F & Head
Bureau of Indian Standards
NRO laboratory.
Plot No. B-69, Phase- VII,
Industrial Focal Point, Mohali-160059,
Punjab**

Annex- III

DEVIATION STATEMENT FORM

- 1) The following are the particulars of deviations from the requirements of the tender document and specifications:

SPECIFICATION CLAUSE	DEVIATION	REMARKS (INCLUDING JUSTIFICATION)

PLACE:

DATE:

SEAL & SIGNATURE OF BIDDER

NOTE: 1. Where there is no deviation; the statement should be returned duly signed an endorsement indicating "No Deviations" .

ANNEXURE-IV

PERFORMANCE SECURITY FORM

To _____ (Name of Purchaser)

WHEREAS _____ (Name of supplier)
Hereinafter called “the Supplier” has undertaken, in pursuance of Contract
No. _____ dated _____ 2013 to supply _____
(Description of Goods and Services) hereinafter called “the Contract”.

AND WHEREAS it has been stipulated by you in the said Contract that the Supplier shall furnish you with a Bank Guarantee by a Nationalized Bank for the sum specified therein as security for compliance with the Supplier’s performance obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the Supplier a Guarantee:
THEREFORE WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Supplier, up to a total of _____ (Amount of the Guarantee in Words and Figures) and we undertake to pay you, upon your first written demand declaring the Supplier to be in default under the Contract and without cavil or argument, any sum or sums within the limit of _____ (Amount of Guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the _____ day of _____ 2013.

Signature and Seal of Guarantors

Date -----Month 2013
Address -----
