

Our Ref: CL/PP/BID-15 (06-07)

Date: 27 Feb 2007

Subject: SUPPLY OF TEST EQUIPMENTS – INTERNAL HYDROSTATIC PRESSURE TESTING MACHINE (No. of Equipment required-2 Nos.) (i.e. 1 No. equipment for CL, Sahibabad & 1 No. for EROL, Kolkata).

Dear Sirs,

Technical & Commercial Bids are invited for the supply of - **TEST EQUIPMENTS i.e. INTERNAL HYDROSTATIC PRESSURE TESTING MACHINE**, in separate SEALED covers, which should reach the undersigned latest by **1700 h**, on **20 March 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 21March 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/-
(B.K. Sinha)
Scientist-‘E’ & Head
(Planning & Purchase)
Ph: 0120-2770416

ANNEX-1(A)

Equipment Specification for EROL, KOLKATA
EROL – ERO Lab, P-230, CIT Scheme-VII M, Block-W, Kankurgachi,
Kolkata-700054. FAX No.033-23555300, Phone No.033-23556587.

Name of Equipment : INTERNAL HYDROSTATIC PRESSURE TESTING MACHINE
WITH FREE END FITTINGS (AEM 03CP)

Purpose: To determine Internal Pressure Creep Rupture Test for HDPE pipes as per IS 4984:1995 and Internal Hydrostatic Pressure Test for UPVC pipes and fittings as per IS 4985: 2000, 10124(Pt 1-13) in accordance with IS 12235 (part 8).

Hydrostatic Pressure Testing Machine:

1. Air Compressor with control panel for Hydrostatic Pressure Test with 8 Stations.
2. Compressor: Capacity- 60Kgf/cm² with electrical controlled. Pressure Gauges with contact point:

<u>Range (in Kgf/cm²)</u>	<u>LC (in Kgf/cm²)</u>
0-6	0.01
0-10	0.1
0-25	0.2
0-60	0.5

3. Pressure gauges shall be preferably supplied with calibration certificate from NABL accredited laboratory.
4. An hour meter capable of recording at least 1500 h and should be a part of the test set up.

Hot Water Bath:

1. Hot Water Bath made of Stainless Steel with lining Material and Hydraulic Meter for Type Test.
2. Hot Water Bath: Size 2000x1000x1100 mm with Digital Indicator and Thermostatic Control and Temperature Indicator, Temperature 0-100⁰ C, Resolution 1⁰C. or better.

END FITTINGS

1. Mild steel end fittings should be supplied in pairs for the following sizes:
 - UPVC pipes as IS: 4985 - 20 to 315 mm
 - HDPE Pipe as per IS 4984- 16 to 315 mm
 - UPVC fittings as per IS 10124 - 16 to 315 mm
2. Each pair of fitting shall be supplied in two sets.

Annex-1(B)
BUREAU OF INDIAN STANDARDS
CENTRAL LABORATORY
EQUIPMENT SPECIFICATION

EQUIPMENT/SPECIFICATION CODE: BCM-02

**NAME OF THE EQUIPMENT: COMPUTERIZED HYDROSTATIC
PRESSURE TESTING MACHINE**

PROPOSED FOR BIS LABS: CL(MECHANICAL) Sahibabad

TOTAL QUANTITY REQUIRED - One

1. PURPOSE : For Hydrostatic Pressure Test on UPVC/ HDPE Pipes

2. REFERENCE : IS 4985:2000/ 4984/10124

3. Features:

Total No. of Stations : 08

6 Stations with a pressure range 0-25 Kg/Cm² with 3 outlets on each station.

- 2 Stations with a pressure range 0-100 Kg/Cm² with 3 outlets on each station.

- The system to consist of 8 nos. pressure transducers for sensing pressure at each station and temperature sensing at 1 point (TRD)

Signal Conditioner

Computer Interface

- Software to collect & print data at specified programmable Intervals upto 10000 Hrs. Provision of data storage in two hard disks.

- CPU with 2 hard disks, Monitor, Printer etc.

- The system to consist of 2 nos. Air Hydro Boosters capable of developing pressure upto 25 Kg/Cm² and 100 Kg/Cm² respectively.

- Each station shall be provided with hour totalizer, isolating valve, bleed valve etc.

Extra Air compressor of 1 HP suitable for the above machine. The system should print data at fixed intervals (pressure as well as temperature)

4. Service/repair/ back up of the equipment shall be available in and around Delhi.

Annex-I(B)
BUREAU OF INDIAN STANDARDS
CENTRAL LABORATORY
EQUIPMENT SPECIFICATION

EQUIPMENT/SPECIFICATION CODE: CCM- 09

NAME OF THE EQUIPMENT: ACCEPTANCE TEST WATER BATH

PROPOSED FOR BIS LABS: CL(MECHANICAL) Sahibabad

TOTAL QUANTITY REQUIRED : One

1. PURPOSE : For UPVC Pipes Testing

2. Reference: IS 4985:2000, Cl 11.1

Other Features:

Temperature Range:- $27 \pm 1^{\circ}$ C

Type of Temp. Controller : PID with PT100 Sensor

Internal Size : 1200mm L x 600mm W x 600mm Deep

Heating Load : 4.5 KW

Refrigeration Load : 1 TR

Material of Construction:

Internal Chamber : SS316

Outer cover : CRC sheet duly powder coated

A water circulating pump shall be provided to keep the temperature uniform through out the bath.

The system shall be as per IS: 12235

(Part-8)-1996

3. Service/repair back up of the equipment shall be available in and around Delhi.

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 equipments are to be supplied at CL and EROL as per the respective specification and address mentioned therein. Please indicate the cost of each equipment and its accessories for each lab separately in the commercial bid.
4. 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.
5. 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.
6. 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.
7. 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. **No disclosure of EMD to be done in Technical Bid.**
8. 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.
9. 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
10. 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.
11. 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.
12. The Bureau reserves the right to accept or reject summarily and or all tenders in whole or part without assigning any reason whatsoever.
13. The Bureau takes no responsibility for delay, loss or non-receipt of tenders after dispatch.
14. 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 specifications.
 - 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.
 - c) 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.