

Our Ref.: CL/Mech/ Hyd. Test

Date: 19-10-2012

Subject: Request to submit quotation for Purchase of (a) Water Bath with cooling device for acceptance Test (Annexure-I) (b) Water Bath for Type Test (Annexure-II) (c) Computerized Hydrostatic Pressure Test Machine(Annexure-III).

Dear Sirs,

Technical & Commercial Bids are invited for Purchase of Water Bath with cooling device for acceptance Test (Annexure-I), Water Bath for Type Test (Annexure-II), Computerized Hydrostatic Pressure Test Machine(Annexure-III) **for testing of PVC Pipes as per IS 4984, IS 4985 , IS 14151 etc** in separate **SEALED** covers, which should reach the undersigned latest by **1500 h**, on **20th Nov. 2012** at the following address:

**Scientist F & Head (Mechanical)
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, Annexure-II & Annexure-III.**
3. Terms and conditions of supply are given in **Annex-IV.**
4. The technical Bids shall be opened in the **Conference Hall**, of the Central Lab, at the address mentioned above at **1530 h on 20th Nov. 2012** 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 & Commercials 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,

**[RAJPAL]
Scientist F & Head (Mechanical)
Ph: 0120 - 4177170/4177172**

Bureau of Indian Standards
Central Laboratory (Mechanical)

Technical Specification for **Water Bath with coolant device for Acceptance Test**

Name of the Equipment	:	Water Bath with coolant device for Acceptance Test.
Proposed for BIS Lab	:	Mechanical Lab (PVC Testing Section)
Total Quantity Required	:	1 No

Temp Range	:	10 to 100 °C
Accuracy	:	±0.1°C
Working Temp.	:	27 °C & 80°C
Test Duration	:	1hr & 48 hrs
Type of Temp Controller	:	PID with sensor
Internal size	:	1200mm(L) X 600mm(W) X 600mm(H)
Heating Load	:	6kW (2kW X 3 nos heater)
Refrigeration Load	:	1TR

Material of Construction

Internal Chamber	:	SS316
Outer Cover	:	CRC sheet duly powder coated
Top Cover	:	CRC sheet duly powder coated
Bottom Grill	:	SS316

- i. A water circulating pump shall be provided to keep the temperature uniform throughout the bath. The system is generally as per cl-3 , IS 12235(Pt-8).
- ii. For cleaning of water tank a drain plug should be provided at the bottom of the tank.

Bureau of Indian Standards
Central Laboratory (Mechanical)
 Technical Specification for - **Water Bath (Type Test)**

Name of the Equipment	:	Water Bath for Type Test
Proposed for BIS Lab	:	Mechanical Lab (PVC Testing Section)
Total Quantity Required	:	1 No

Temp Range	:	Ambient to 100 °C
Accuracy	:	±0.1°C
Working Temp.	:	60°C & 80°C
Test Duration	:	165hr & 1000 hrs
Type of Temp Controller	:	PID with sensor
Internal size	:	1200mm(L) X 600mm(W) X 600mm(H)
Heating Load	:	6kW (2kW X 3 nos heater)

Material of Construction

Internal Chamber	:	SS316
Outer Cover	:	CRC sheet duly powder coated
Top Cover	:	CRC sheet duly powder coated
Bottom Grill	:	SS316

- i. A water circulating pump shall be provided to keep the temperature uniform throughout the bath. The system is generally as per cl-3 , IS 12235(Pt-8).
- ii. For cleaning of water tank a drain plug should be provided at the bottom of the tank.

Bureau of Indian Standards
Central Laboratory (Mechanical)

Name of the Equipment	:	Computerized Hydrostatic Pressure Test Machine.
Proposed for BIS Lab	:	Mechanical Lab (PVC Testing Section)
Total Quantity Required	:	1No

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|-----------------------|---|---|
| 1. Purpose | : | For Hydrostatic Pressure Test on UPVC/HDPE/PE Pipes |
| 2. Reference | : | IS 4985, IS 4984, IS 14151 etc |
| 3. No of Stations | : | 08 (Four nos. each long term and short term) |
| | | <ul style="list-style-type: none"> • 05 Stations with pressure range 0-1.6 MPa , LC- 0.01 MPa. • 02 Stations with pressure range 0-6 MPa , LC- 0.05 MPa. • 01 Stations with pressure range 0-2.5MPa , LC- 0.02 MPa. • Detachable master gauge of 0-10MPa LC- 0.1 MPa connected to all pressure gausses. |
| 4. Computer Interface | : | <ul style="list-style-type: none"> - Software to collect & print data at specified programmable intervals upto 1000 Hrs. Provision of data storage in hard disk. - CPU with Hard disks, monitor, printer etc. - Each station shall be provided with time totalizer, isolation valve bleed etc. |

5. Signal Conditioner:

- i. Computer Interface.
- ii. Shall conform to all the requirements of IS 4984, IS 4985 etc(Hydrostatic Characteristics).
- iii. Fully automatic with provision of automatically turning the individual pressure station ON/OFF and record time duration.
- iv. Timer to cut off pressure station after completion of test.
- v. Data acquisition, storage and analysis shall be fully automatic.
- vi. Air compressor with silencers and auto cut-off/restart device.
- vii. Hose connection and hoses to sustain water at 80 Deg C min.
- viii. Manual emergency control button.
- ix. Logged data printing facility.
- x. Automatic display of bursting/leakage pressure.
- xi. Real time clock check to keep automatic track of the date, time and runs.
- xii. Master pressure gauge to connect all pressure stations for calibration checking facility.

- xiii. Automatic pressure release facility.
- xiv. Data transmission with USB port.
- xv. Compatible with latest MS operating system.
- xvi. Facility to download/save/edit /delete along with another sample information such as sample code, batch, date of start, date of completion, IS no, testing personnel name etc.

6. Features:

- i. Manual/tutorial shall be provided along with a hard copy and CD/DVD.
- ii. Software to collect data in hard disks.
- iii. Operational precautions and safety requirements.
- iv. System shall consist of 2 nos. air Hydro boosters capable of developing pressure.
- v. Cabinet shall be fabricated from 2mm thick CRC sheet duly powder coated.
- vi. Shall print data at fixed intervals.
- vii. End caps(as per cl 3.1.1) IS 12235(Part-8) covering the range size 20mm to 400mm as per IS 4985, IS 4984, IS 14151 etc.

7. Special Conditions:

- viii. Calibration by NABL accredited agency shall be part of commissioning by supplier.
- ix. Each of the above specification and pre installation requirements to be arranged by the user shall be clearly specified in the quotation.
- x. Service /repair back up shall be available in and around Delhi.
- xi. Minimum warranty of three years shall be provided.
- xii. Provided with suitable working table etc for keeping CPU/monitor/accessories etc.
- xiii. Training of two personnel at customer site for free of charge.
- xiv. Pre delivery inspection of the equipment is necessary.

8. Accessories:

- i. Set of tool Kit
- ii. Spare parts/ consumables (if any).

	Prepared By	Checked By	Approved By
Name	Sh. Mehtab Singh	Sh. Nawal Kishore	Sh. RAJPAL
Designation	LO-A	GL-01(Mech)	Sc-F&Head(Mech)
Signature			

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 60 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.** 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. 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 superscribed **"EMD"** and **stapled separately with the envelope containing the commercial Bids. No disclosure of amount of EMD in Tech Bid should be made.**
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 3 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 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.

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