

POSTED UNDER POSTAL CERTIFICATE

BUREAU OF INDIAN STANDARDS

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BIS BANGALORE LABORATORY
Peenya Industrial Area
1st Stage, Tumkur Road
Bangalore – 560 058

Ref : BNBL / 13:3

Date : 19 01 2007

Subject: Tender Notice for the Supply of Humidity Cabinet for Curing Cement Specimens for Determination of Compression Strength and Drying Shrinkage Test.

M/s Rajco Scientific & Engineering products
15/17, I Floor, Ashok Nagar,
Behind Tilak Nagar Police Station
New Delhi-110 018

Dear Sir(s),

Technical & Commercial Bids are invited for **Supply of Humidity Cabinet for Curing Cement Specimens for Determination of Compression Strength and Drying Shrinkage Test** in separate **SEALED** covers, which should reach the undersigned latest by **17 00 hours** on **5 February 2007** at the above address.

1. The terms and conditions for submitting quotations and supply of the equipment are given in **Annexure – I.**
2. The detailed specification(s) of the above mentioned equipments(s)/items are given in **Annexure - II.**
3. The Technical Bids shall be opened in the Conference Hall of BIS Office, Bangalore at the address mentioned above at **15 00 hours** on **16 February 2007** in the presence of such tenderers or their duly authorized representatives who may like to attend.
4. 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. Unsealed and stapled envelopes shall not be accepted.
5. Unless stated otherwise, quotation(s) shall be deemed to be for delivery at BIS Bangalore Branch Office Laboratory.
6. The specification and terms & Conditions can also be downloaded from BIS Website – www.bis.org.in

Thanking you,

Yours faithfully,

(B.R. Narayanappa)
Director & Head BNBL

Encl. : 1) Annexure - I
2) Annexure – II

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 Specification as applicable.
- 2 The delivery of stores is required within 30 days of receipt of order. If however, 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 stores.
3. **The quotation(s) shall be submitted in two parts – Technical Bid & Commercial Bid.** The Technical and Commercial Bids should be sealed by the bidder in separate cover duly super scribed and both these sealed covers are to be put in a bigger cover which should also be sealed and duly super scribed “**Supply of Humidity Cabinet for Curing Cement Specimens for Determination of Compression Strength and Drying Shrinkage Test**”. Such Bids shall remain valid for a period of 90 days from the date of opening of quotation(s) specified. The commercial bid will be opened after technical evaluation of technical bid. The date of opening of commercial Bid will be informed to the bidders found suitable in technical evaluation.
- 4 **The offer/quotation must be strictly as per required specifications and the tender terms and conditions.**
- 5 Quotation(s)/Bids qualified by indefinite expressions as “subject to immediate acceptance”, “subject to prior sale”, etc. and incomplete quotation(s) is/are liable to be summarily rejected.
- 6 The Bids should clearly give break-up of cost of each equipment as per specifications. The rates quoted should separately indicate Basic Cost, Excise Duty, Sales Tax, Packing and Forwarding Charges, Freight, Insurance, VAT, etc. In the 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 an **Earnest Money Deposit (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 **Bangalore**. The sealed envelope containing EMD shall be super scribed “**EMD**” and stapled separately with the envelope containing Commercial Bid. This will be returned to the unsuccessful bidders within 30 days of the award of the contract.
- 8 BIS shall pay 90% of the cost after satisfactory installation and commissioning and training, 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 equipment shall be clearly stated in the Technical Bid. The warranty period of an item/equipment shall commence from the date of receipt of the item/equipment in good working condition and satisfactory installation / commissioning / demonstration at BIS Bangalore Laboratory. The warranty period and validity of contract performance security shall be extended for the period of delay in satisfactory installation.

- 10 **Please mention clearly in the Technical Bids regarding address of arrangements for service/repair of the equipments is available.** Suppliers having such arrangements in and around Bangalore for providing timely and efficient service of the equipment would be preferred.
- 11 All goods received would be subjected to inspection, by BIS before or after receipt or commissioning (as applicable). The decision 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 in 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 and 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 scheduled date subject to the ceiling of a maximum of 10% of the total value of the order.
- 15 The equipment should be installed/commissioned and demonstrated by the supplier at BIS Bangalore Laboratory immediately, but in any case within one month after receipt of the item in the lab, and the same will be put under operation to the satisfaction of BIS technical personnel who will test the performance of the equipment. **No separate charges for installation, etc. will be paid to the party beyond the quoted prices.**
- 16 All questions, disputes or differences arising under, out of or in connection with this tender enquiry shall be subject to the exclusive jurisdiction of Bangalore Courts.

**BUREAU OF INDIAN STANDARDS
(BANGALORE BRANCH OFFICE LABORATORY)
EQUIPMENT SPECIFICATION**

EQUIPMENT SPEC. CODE		:	BBM 02
NAME OF THE EQUIPMENT		:	Humidity Cabinet
PROPOSED FOR BIS LABS		:	BNBOL
TOTAL QUANTITY REQUIRED		:	One No.
1.0	Scope Covers the basic guiding requirements for the design of Laboratory Humidity Cabinet required for carrying out the following test: -Compression Strength Test for Portland Cement as per IS 4031 (Part 6 & 7) - Drying shrinkage test Portland Pozzolana Cement as per I489 (Part 1)		
2.0	Test conditions The cement cubes/moulds are required be cured at 27°C ± 2°C and relative humidity 65± 5% and 50 ± 5% respectively.		
3.0	Construction		
3.1	The dimensions of inner chamber shall be as follows: Length: 45 cm, Width: 45 cm and Height: 45 cm		
3.2	The inner chamber shall be made of corrosion resistant stainless steel.		
3.3	The exterior shall be double wall, heavy gauge steel with scratch resistant powder coated finish, adjustable door latch and hinges.		
3.4	Fiber glass/glass wool/PUF material, minimum 50 cm thick shall be provided on all sides. Peripheral silicon rubber door seal shall be provided to minimize loss of temperature and humidity in the cabinet.		
4.0	Temperature range : 0-90°C Relative humidity : Atmospheric to 95% RH		
5.0	Temperature control		
5.1	Microprocessor based PID controller shall be used for the precise control of temperature humidity with the following accuracy: Temperature : ± 1°C, Resolution 0.1°C Humidity : ± 3% RH, Resolution 0.1% RH		
6.0	Instruments and controls		
6.1	An instrument console shall be fitted to the cabinet for ease of operation. It shall include the following: Indicating panel consisting of mains on-off switch, mains-ON indicator lamp, LED temperature indicator with 0.5°C resolution, LED humidity indicator, ON-OFF switch for air circulating fan, etc.		
6.2	A user programmable time switch shall be provided for automatic programming of test period.		
6.3	Audible and visual temperature alarms shall be provided to alert any temperature deviation from active set point of exceeding high limit.		
6.4	Temperature and humidity controller shall show two separate displays while operating: one each for process and one each for set-point. The indicator shall have a basic accuracy of minimum 0.5%.		
	PREPARED BY	CHECKED BY	APPROVED BY
SIGNATURE			
NAME	U.SURENDRA	U.SURENDRA	B.R.NARYANAPPA
DESIGNATION	Director (Mech)	Director (Mech)	HEAD BNBOL
DATE	14 08 06	14 08 06	14 08 06

EQUIPMENT SPEC. CODE	:	BBM 02	
NAME OF THE EQUIPMENT	:	Humidity Cabinet	
PROPOSED FOR BIS LABS	:	BNBOL	
TOTAL QUANTITY REQUIRED	:	One No.	
7.0	Safety protections The humidity cabinet shall be provided with the following safety protections: <ul style="list-style-type: none"> - Safety alarm in case of oven mal-functioning, where required; - Provision for interlocking of fan in the heater circuit; - Provision of a suitable earth terminal. 		
8.0	Calibration : Calibration certificates of temperature indicator and hygrometer from NABL accredited calibration agency shall be furnished along with the equipment.		
9.0	Documentation Technical documentation such as instruction, operating, maintenance/service manuals containing schematic diagrams.		
10.0	Guarantee The equipment shall be guaranteed for a minimum period of one year of satisfactory operation and thereafter comprehensive service support shall be provided at our site.		
	PREPARED BY	CHECKED BY	APPROVED BY
SIGNATURE			
NAME	U.SURENDRA	U.SURENDRA	B.R.NARYANAPPA
DESIGNATION	Director (Mech)	Director (Mech)	HEAD BNBOL
DATE	14 08 06	14 08 06	14 08 06

**Supply of Humidity Cabinet for Curing Cement Specimens for Determination of
Compression Strength and Drying Shrinkage**

Sl. No	Name & Address
1	M/s Lawrence & Mayo (India) Pvt. Ltd. Scientific & Engineering Instruments Division 4-B, Mahatma Gandhi Road Bangalore-560 001
2	M/s Scientific Engineering Corporation 3280, Arya Pura Old Subzi Mandi Delhi-110 007
3	M/s HMG India, F-201, Country Park Opp.Tata Steel Ltd, Off. Western Express Highway, Dattapada Road, Borivili (E), Mumbai-400 006
4	M/s Remi Sales & Engineering Ltd. No. 13, 3 rd Main Road, Vasanth Nagar Bangalore-560 052
5	M/s Rajco Scientific & Engineering products 15/17, I Floor, Ashok Nagar, Behind Tilak Nagar Police Station New Delhi-110 018