

DEPARTMENT OF COMPUTER ENGINEERING
Malaviya National Institute of Technology, Jaipur

Dated: 7/04/2008

Subject: Quotations for Procurement for equipments **“Testing Equipment for Structural Engg. Department”**.

All the qualified OEM or authorized distributors are requested to submit (in sealed envelope) the quotations for the equipment for Structural Engg. Department whose specifications are given below.

Quotations must be submitted with the following:

1. **EMD of 2% of the quoted cost** in the name of Registrar, MNIT, Jaipur payable at Jaipur.
2. Proof that you are OEM/Authorised distributor of quoted products. (proof of the same may be attached with the quotation)
3. Educational discount details if provided for the product.
4. FOR MNIT, Jaipur pricing including the clear division of Basic price, discounts, taxes applicable, entry charges and total price FOR, MNIT, Jaipur.

Sealed quotations (**Sealed Envelope must be superscripted “Test Equipment for Structural Engg.”**) with requisite documents and EMD must be sent to:

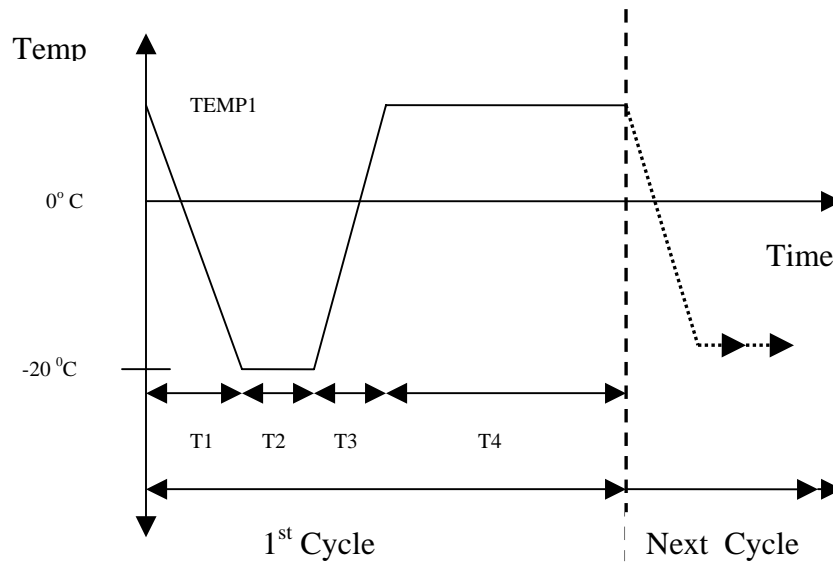
Stores Officer (Purchase)
Central Stores
Malaviya National Institute of Technology
JLN Marg
Jaipur - 302017

The sealed quotations must reach at the above address **on or before 3:00pm, April 24, 2008**. The quotations shall be opened on the same day in front of the committee and the vendors at **04:00pm, April 24, 2008**.

Stores Officer (P)
MNIT, Jaipur
Phone: 0141-2713312, Fax: 01412529029

Environmental chamber

- 1. **Work Space size :** Min. Capacity 0.75 Cubic meter (Minimum inside dimensions 100x100x75 cm)
- 2. **Temperature Range :** -20 °C to + 60 ° C (± 0.5° C)
- 3 **Temperature Uniformity :** +1.0°C
- 4. **Humidity Range :** 2 % to 95% RH (± 3%)
- 5 **Due Point Limit** +2°C
- 6. **Power supply :** AC 220/240 V, 50 Hz,
- 7. **Rate of change of temperature :** Heating 5.0 °C /min - (Maximum)
Cooling 2.0 °C /Min - (Minimum)
- 8. **Controller :** Micro processor based control system with computer interface and data logging.
Programmable controller with facility for storing pre selectable program



The chamber should be able to perform Freeze Thaw cycle automatically upto specified number of cycles (Upto 300 cycles). It should have facility to adjust the time T1, T2 , T3 and T4 and Temp1 as in the fig above.

- 9. **Fog free Viewing window with internal lighting :** to be provided
- 10. **Indicators :** Power ON, temperature and humidity
- 11. **Safety :** Min /Max Temperature protection required

| | |
|-----------------------------------|---|
| 12 Calibration Capability: | Actual and set values |
| 13 Number of Shelves | 3 (adjustable) |
| 14 Frame | Inside and outside frame totally in stainless steel |

Concrete Pan Mixer

Concrete mixer pan type should be able to mix up to 150 Kg of concrete efficiently. It should have (Movable Pan) with Trolley. The base of the Pan should be made of min 6 mm thick steel sheet. The material should not stick to corners and the mixer should be able to provide uniform mix.

Concrete Saw

Concrete cutting machine should be suitable for cutting concrete samples upto 100 mm cubes or cores. The cutter to be fitted with manually operated slide. The Jaws of the machine are to be adaptable for holding square / circular samples. The housing is to be fabricated with stainless steel sheet having suitable inspection window so that the sample is clearly visible during cutting operation. The machine is to be complete with cutter, suitable water feeding system, sludge removal system and auto cut off safety feature for protection against accidental dry feeding.

Permeability Apparatus as per DIN 1048

System for measuring water penetration in three concrete samples. Complete with required compressor, constant pressure arrangement, tubing and leak proof clamping arrangement as per DIN1048 specifications. Constant pressure to be maintained during the test as per the standard DIN 1048.

Air Entrainment Meter

System should be able to measure entrained air in concrete (With MSA 38 mm) as per IS 9799:1981. It should have measuring bowl of 0.005 Cu m caacity (Minimum) , a flanged conocal cover assembly and complete with arrangement for water inlet with spray tube and air bleed valve. A pressure gauge and a hand pump for pressure application, one caliberated cylinder, a rubber mallet, a measure amd a tamping rod.