

**CENTRE FOR RURAL DEVELOPMENT AND TECHNOLOGY  
INDIAN INSTITUTE OF TECHNOLOGY-DELHI  
HAUZ KHAS, NEW DELHI-110 016**

Dated: 14.12.12

**Notice Inviting Quotations**

Sealed quotations of technical and commercial bids (in separate envelopes) kept in one sealed outer envelope, are invited for purchase of a **Growth Chamber with controlled temperature** as per specifications given in annexure attached. The quotations should reach **within 15 days** from the date of advertisement, **to the Head, Centre for Rural Development and Technology, Indian Institute of Technology, Delhi (IIT Delhi), Hauz Khas, New Delhi-110016**. Your quotation must be super-scribed “**Growth Chamber with controlled temperature**”

## **Annexure I**

### **Technical specifications for the purchase of Growth Chamber with Controlled Temperature**

- a. The system should have a capacity of 350 Litres.
- b. The system should have computer interface of RS232 communications for PC control.
- c. It should have PLC based HMI (Human Machine Interface) controller.
- d. It should have calibrations capability with actual and set values.
- e. It should have chamber uniformity of  $\pm 1.0^{\circ}\text{C}$
- e. The alarm should be audible and visible with a) temperature overshoot.  
b) during refill of vapour generator.
- f. The system should have standard visibility lighting of fluorescent lamp.
- h. The temperature range of  $20^{\circ}\text{-}50^{\circ}\text{C}$  for RH application,  $5^{\circ}\text{-}60^{\circ}\text{C}$  temperature for BOD application.
- i. It should have 3 SS racks and 5 position slots.
- j. The system must have Humidity Range of 50-70RH in  $20\text{-}50^{\circ}\text{C}$ .
- k. It should have operating power supply of 230 V,50Hz.
- l. Steam generator or ultrasonic system not preferred.
- m. Audible alarm for water depletion to be available. n. Auto tuning electronic thermo regulation .
- o. The refrigeration system is hermetically sealed compressor and CFC free.
- p. The unit is insulated by means of Polyurethane foam to ensure reduced energy consumption.
- q. Safety: Vapour generator heater cut off during refill.

**Terms & Conditions:**

1. The quotations must have validity of at least four months.
2. Sealed quotations of technical and commercial bids should be in separate envelopes and both the envelopes should be kept in one sealed outer envelope.
3. Quotation must include insurance and air-freight charges, delivery period of the items addresses to The Indian Institute of Technology, Delhi, India (FOB, New Delhi).
4. The products will be used for educational purposes. Any applicable academic institution discounts should be offered and stated.
5. Detailed Brochures should accompany the offer.
6. If the bidder is an authorized dealer then the authorized Indian dealership certificate from the principles should be enclosed.
7. Two year comprehensive warranty.
8. Payment will be through irrevocable letter of Credit.
9. In case the items are proprietary products of the company, a proprietary item certificate stating the same must be provided.
10. Details of at least five users with their phone numbers and email ID should be provided in tabular form along with the copy of supply order and customer's satisfaction certificate.
11. Dealer must provide a technical demonstration of the product.
12. Institute reserves the right to accept or reject any or all the quotations without assigning reasons thereof.