

# INDIAN INSTITUTE OF TECHNOLOGY KANPUR

## Department of Mechanical Engineering

### Enquiry Letter for Quotation of Constant Temperature Water Bath

Enquiry No: ENQ/ME/2016-17/KMD/1

Enquiry Dated: 3<sup>rd</sup> June 2016

Closing Date: 15<sup>th</sup> June 2016

Sealed quotations (in two separate envelopes namely “TECHNICAL ONLY” and “FINANCIAL BID”) are required for Constant Temperature Water Bath. The specifications for the equipment are;

#### **Technical Specifications**

1. Provision for water heating as well as water cooling with automatic on off control
2. Operating water temperature range for constant temperature water bath: 10<sup>0</sup>C to 80<sup>0</sup>C
3. Temperature inside water bath is to be controlled with a sensitivity of  $\pm 0.1^{\circ}\text{C}$ .
4. Temperature display accuracy 0.1<sup>0</sup>C.
5. Capacity of tank : 15-20 liters
6. For cooling water, hermetically sealed compressor should be used.
7. Inner chamber made of Stainless Steel SS 304 grade and Outer chamber made of Aluminum duly powder coated surface/SS 304
8. Temperature to be controlled by Digital Temperature controller with PT100 or RTD sensor (Microprocessor based) with NABL certificate or better.
9. The unit should be fitted with water circulation pump of 1-6 liters/minute or better.
10. Microprocessor based digital Temperature Controller with LCD/LED display.
11. Motorized stirring assembly to maintain the uniformity of temperature if needed.
12. Drain screw for conveniently emptying the bath
13. Early warning system for low liquid level
14. Spare heating element, thermocouple and accessories may be quote separately.

(i) The Technical Bid should contain detailed technical specification of the product being offered and should not mention any price. This should also mention the guarantee and complete spare parts must be included that are required for functioning of the unit.

(ii) The Financial Bid should include the detailed price quotation clearly including the cost of the equipment, taxes, service charges if any, shipping and handling charges.

**Terms and Conditions:**

1. Maximum education discount, if any should be offered.
2. Validity of quotation should be at least for 90 days.
3. OEM Manufacturer must be an ISO-9001 company. Please attach the certificate.
4. Quotations should carry proper certifications such as, agency certificates, proprietary certificates, printed company profile, detail technical specification, detailed user-list for similar equipment with phone numbers.
5. The Constant water temperature bath must have a warranty of at least 1 year. Please also quote the price for extended warranty of 3 years.
6. Compressor must have 10 years warranty with international standard certifications.
7. An undertaking that the vendor will supply all the spares and services for the equipment for at least 5 years from the date of commissioning.
8. Availability of after sales service and support in India. Supplier has to compulsorily indicate details of facilities/expertise/qualification/cost (after guarantee period) of support in India. Factory trained engineers should be available in India for complete product support.
9. If it is an imported item, please quote FOB charges and CIF charges separately.
10. If the product is manufactured outside India, please attach NMIC certificate.
11. Normal payment terms for the Institute will be applicable (90% on delivery of the items and the remaining 10% after satisfactory installation/inspection).
12. Delivery must be within 4 weeks. Earlier would be better.
13. IIT Kanpur is exempted from excise duty.
14. IIT Kanpur is exempted for partial custom duty (CD applicable to IIT Kanpur is 5.15%).

Kindly send the Technical and Financial bids in sealed envelopes latest by June15, 2016 by 5:00 PM to Mr. ManojSharma, Department of Mechanical Engineering, Indian Institute of Technology Kanpur Kanpur – 208016, Uttar Pradesh, India, Email: [sharmam@iitk.ac.in](mailto:sharmam@iitk.ac.in), No. 0512-2597928; 09415429693.

K. Muralidhar  
Indentor  
3<sup>rd</sup> June, 2016