

**DEPARTMENT OF BIOCHEMICAL ENGINEERING AND BIOTECHNOLOGY**  
**INDIAN INSTITUTE OF TECHNOLOGY DELHI**  
**HAUZ KHAS, NEW DELHI – 110016**

**JULY 19, 2013**

**Subject: NIQ for Refrigerated Water Circulator in DBEB, IIT Delhi**

Sealed quotations are invited for supply of **1 (one) Refrigerated Water Circulator** in the DBEB, addressed to **Prof. G. P. Agarwal, DBEB, IIT Delhi** on or before **12.08.2013 by 5.00 P.M.** All the parties are requested to read the specifications given below carefully before submitting the quote. The quotation must include all taxes, handling, shipping and installation charges. Also all details of guarantee/warranty should be clearly mentioned. The Technical and Financial bids should be in separate sealed envelopes and both should be placed inside a large sealed envelope inscribed with “**Quotations for purchase of Refrigerated Water Circulator**”.

**Item Name:** Refrigerated Water Circulator

**Quantity:** 01 (One)

**Prof. G. P. Agarwal**  
(DBEB, IIT Delhi)

## ESSENTIAL TECHNICAL SPECIFICATIONS

- Working temperature range -20... 100 °C
- Temperature stability  $\pm 0.03$  °C
- Setting / display resolution 0.1 °C
- Temperature Display type LED
- Minimum Heating capacity 1.3 kW
- Minimum Cooling capacity @ 20°C 0.26 kW
- Cooling of compressor Air
- Minimum Pump capacity flow rate 15 l/min
- Minimum Pump capacity flow pressure 0.35 bar
- Filling volume 4.5 - 7 litres
- Refrigerant R134a
- Ambient temperature 5...45 °C
- Compact dimensions and light weight instrument will be preferred.
- Appropriate Pump connections should be provided.
- Over temperature cut-out at 100°C limit(adjustable) should be there
- Drain should be available in water reservoir unit.

## DESIRABLE FEATURES

- Large Bright LED display
- Splash proof key pad
- Easy access to coolant reservoir for local cooling of tubes, bottles etc.
- Low liquid level protection with optical and audible alarm signal
- Adjustable high temperature cut-out / dry-running protection
- Convenient carrying handles front and rear for repositioning the unit
- Noise-less operation
- Auto start from pre-set settings following power failure
- Protection of compressor against frequent power failure

## **NECESSARY TERMS AND CONDITIONS**

1. IIT Delhi is exempted from paying custom duty under notification No.51/96 (partially or fully) and necessary “Custom Duty Exemption Certificate” can be issued after providing following information.
  - a. Shipping details i.e. Master Airway Bill No. and House Airway No. (if exists)
  - b. Forwarder details i.e. Name, Contact No., etc.
2. Custom Duty Exemption Certificate will be issued to the shipment in the name of the Institute and Bills of Entry should be submitted to IIT Delhi later on.
3. Either the Indian agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender. If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product.
4. If the bidder is an authorized dealer of any manufacturer, the authorized Indian dealership certificate from the principles should be enclosed. Similarly, proprietary certificate for proprietary items should be provided.
5. IIT Delhi is exempted from paying Excise Duty and necessary Excise Duty Exemption Certificate will be provided for which following information are required.
  - a. Quotation with details of Basic Price, Rate & Amount on which ED is applicable.
6. Please quote prices of imported items at FOB (Freight on Board) IIT Delhi inclusive of all taxes, freight, delivery, installation and onsite training charges. The quotation should provide the total price of the system including all taxes and transportation charges.
7. In case IIT Delhi is imposed with demurrage charge due to import on CIF, the entire demurrage charge has to be borne by the Indian Agent of foreign supplier.
8. A special discount/rebate wherever admissible keeping in view that supplies are being made for educational purpose in respect of public institution of national importance may please be indicated.
9. Payment Options -- Against Delivery: Payment by wire transfer after receipt and installation of material.
10. Delivery period: within 1 month from the issue of supply order.
11. Warranty: at least 3 years comprehensive onsite warranty should be provided. AMC price beyond 3 years should be mentioned separately.
12. The quotations must have validity of at least three months.
13. Authority of IIT Delhi reserves the right to reject any or all quotations without assigning any reasons.