

September 24, 2013

**NIQ for Refrigerated Centrifuge**

Sealed quotations are invited for the supply of Refrigerated Centrifuges (**2 units**) in the Department of Biochemical Engineering and Biotechnology. The technical specifications for the Refrigerated Centrifuge are given below.

Specifications:-

- Table top centrifuge for high volume applications
- The temperature range should be from  $-9$  to  $+40$  deg C
- The RCF should be  $> 20,000$  g
- Maximum capacity of the machine should be 1 liters or more.
- Rotors should be fully autoclavable with aerosol tight lid facility.
- Rotor lid should have Quick Lock facility for ease of use, and light weight rotors will be preferred.
- It should have 10 acceleration & 10 breaking ramps for sensitive samples.
- It should have short spin key, fast cool & stand by cooling option
- It should have the facility to put "at set rpm" function, with ECO shut-off technology to reduce energy consumption and increase compressor life.
- A program memory of 30-35 is desirable
- It should have the ability to spin 15 ml and 50 ml falcon tubes and oak-ridge tubes at 11000 rpm and 15500g with 6x50 ml or higher fixed angle rotor
- Adaptor should be available for volumes from 1.5 ml to 50 ml in the fixed angle rotor. (Such as 2ml, 7ml, 15 ml , 18ml,20ml, 30ml,50ml)
- The fixed angle and swing out rotor (4x250ml) should accommodate both round bottom tubes as well as falcon tubes.
- The Swing out rotor for Deep well plates, MTP plates.
- It should have provision for Microarray glass slide and cell culture flask adaptors( without changing the rotor)
- Should run PCR strip rotor(48X0.2ml/6X8tube strip/6X5strip)
- Should run 30X1.5/2ml rotor with 20,800g and 14,000 rpm
- Should have facility to validate speed temp and time with certified device.
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- Should have the standard of International safety parameter.
- It must have built-in condensation drain facility to eliminate water accumulation inside the chamber.

Minimum Rotors required:

- 30 x 1.5/2.0 ml Fixed-angled Rotor with Min. RPM 14000 & RCF 20,000 x g.
- 6 x 50 ml Fixed-angled Rotor with Min. RPM 11000 & RCF 15,500 xg with 50 / 15 ml falcon adaptors.

**Terms and conditions:**

1. A minimum comprehensive warranty with spares for 3 years from the date of installation of the instrument.
2. Comprehensive on-site training to the users after installation.
3. Catalogue in original with all technical specifications printed on the catalogue. Principal needs to declare the year of launch of the quoted model.

**General instructions:**

1. Letter from the manufacturer specifically to quote for this tender is to be attached for authenticity of dealership/ agency and the dealer should be authorized service provider.
  2. Vendor should get a fresh certificate directly from their product principal's clearly mentioning about warranty for three years of the systems to be delivered.
  3. Special discount/ rebate wherever admissible keeping in view that the supplies made for educational purposes in respect of the public institution of national importance may please be indicated.
  4. Vendors should attach the relevant product brochures for the model quoted.
  5. Validity of the quotation should be at least three months.
  6. Vendors will do the installation and demonstration of the equipment at IIT Delhi premises without additional charges.
  7. Taxes, terms and conditions should be clearly mentioned.
  8. In the case the items are proprietary products of the company, a proprietary item certificate stating the same may be provided.
  9. Specifications form should be similar to the given specifications sheet.
  10. A compliance statement for required specifications should be attached.
  11. Payment terms and conditions should be clearly mentioned. No advance payment is encouraged by IIT Delhi.
  12. Firm MUST provide a compliance statement vis-à-vis specifications in a "tabular form" clearly stating the compliance and giving justification, if any supported by technical literature with clear reference of page number, paragraph or lines. This statement must be signed by the tendered for its authenticity and acceptance that any incorrect or ambiguous information found submitted will result in disqualification of the tender. The quotation should be complete in all respects (as per IIT-Delhi rules).
- The Institute/ purchase committee has the right to accept or reject any bid or all quotations without assigning any reason whatsoever.**

Sealed quotations in separate envelopes of Technical and Commercial bids kept in one sealed outer envelope (super-scribed “Quotation for **Refrigerated Centrifuge**”) should be addressed to **Prof. T.R. Sreekrishnan, Department of Biochemical Engineering and Biotechnology, IIT-Delhi, Hauz Khas, New Delhi 110016** and should reach the **Department of Biochemical Engineering and Biotechnology, IIT-Delhi** by **1200 hrs by October 8th, 2013.**