

DEPARTMENT OF CHEMICAL ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY - DELHI

HAUZ KHAS, NEW DELHI - 110016

NOTICE INVITING QUOTATION (NIQ)

Sub: Floor model Ultracentrifuge

Sealed quotations in separate envelopes of technical and commercial bid kept in **a one sealed outer envelop** are invited for purchase of a Floor model Ultracentrifuge as per specifications given below. Your sealed quotation should reach latest by 5 PM on **28.11.2011** to **Prof. S. Basu, Department of Chemical engineering, Indian Institute of Technology – Delhi (IIT Delhi), Hauz Khas, New Delhi - 110016**. Your quotation should be superscribed “Quotation for **Floor model Ultracentrifuge** due on **28.11.2011**

Minimum Specification: Floor model Ultracentrifuge

The Ultracentrifuge must have the following specifications:

- Should have maximum speed (rpm) of 100,000 or above
- Maximum RCF (x g) **7,50,000 or above**
- Maximum capacity 180 ml or above.
- Speed accuracy: **±50 Rpm**
- Setting of RCF and RPM mode
- LCD panel and direct entry keyboard to provide real time control of operational parameters.
- Should have facility to automatically calculate and displays rotor data, programmed operation parameters and detailed error message.
- Powerful Imbalance protection for protection of rotor and shaft
- Acceleration/Deceleration profile: 9/10 or higher
- Rotor Temperature Control range (°C): 0 to +40
- Rotor cooling method-Thermo-module cooling system(HCF, CFC free)
- Timer: minimum One minute to 24 hrs., with a HOLD function ,with Real time control function
- Operation Noise(dBA) : <57dBA
- Powerful vacuum pump-Oil diffusion pump to reduce the time to half by optimized control

- **Should operate on Power** : single phase, AC 220/230/240 V \pm 10%, 30A,50Hz
- **Standard accessories:** instruction, manual, rotor cleaning bar, silicone grease

Rotors:

1. Fixed angle rotor for Ultracentrifuge, 8 x (12 – 14ml), Max. 58,000(rpm) or above
Max. RCF 289,500 X g or above.

Terms & Conditions:

1. The quotations must have validity of at least three months.
2. Quotation must indicate the price as 'FOB' as well as 'CIF', New Delhi
3. The products will be used for educational purposes and research only. Any applicable academic institutional discounts should be stated clearly in the commercial bid.
4. Detailed Brochures should be accompanied in the technical bid.
5. If the bidder is an authorized dealer then the authorized Indian dealership certificate from the principles should be enclosed.
6. IEC certificate from the Ministry of Commerce may be enclosed along with the quotation in favour of Indian agent.
7. Minimum 3 years warranty required(preferance will be given if additional warranty period provided)
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 with the technical bid.
10. Training and installation should be provided free of cost at site.
11. List of end users should be provided.
12. Institute reserves the right to accept or reject any or all the quotations without assigning any reasons thereof.