



**DEPARTMENT OF BIOTECHNOLOGY**  
**Indian Institute of Technology, Madras, Chennai, 600 036.**

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Date: 29.11.2018

**Ref: BT/GUHA/2018/035/SPL**

**Dt. 29.11.18**

**Due Dt. 19.12.18**

1. Quotations are invited in duplicate for the various items shown below/overleaf/ enclosed list.
2. The quotations duly sealed and super scribed on the envelope with the reference No. and due date, should be addressed to the undersigned so as to reach him on or before the due date stipulated above.
3. The quotations should be valid for sixty days from the due date and the period of delivery required should also be clearly indicated.
4. If the item is under DGS & D Rate Contract, Rate Contract Number and the price must be mentioned. It may also please be indicated whether the supply can be made direct to us at the rate contract price. If so, please send copy of the R.C. (Please note that we are not Direct Demanding Officers).
5. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the Quotations, wherever applicable. Samples if called for should be submitted free of charges and collected back at the supplier's expenses.
6. **Local Firms:** Quotations should be for free delivery to this Institute. If quotations are for Ex-Godown, delivery charges should be indicated separately.
7. **Firms outside Chennai:** Quotations should be for F.O.R Chennai. If F.O.R. Consigner stationer freight charges by passenger train/lorry transport must be indicated. If Ex-Godown, Packing, forwarding and freight charges must be indicated.
8. The rates of Sales/General Taxes and the percentage of such other taxes legally leviable and intended to be claimed should be distinctly shown along with the price quoted. Where this is not done, no claim for Sales/General Taxes will be admitted at any stage and on any ground whatsoever. **The taxes leviable should take into consideration that we are entitled to have concessional sales tax applicable to non-government educational institutions run with no profit motive for which a Concession. Sales tax certificates will be issued at the time of final settlement of the bill.**
9. Goods should be supplied carriage paid and insured.
10. Goods shall not be supplied without an official supply order.
11. **Payment:** Every attempt will be made to make payment within 30 days from the date of receipt of bill/acceptance of goods, whichever is later.

## **Specifications for Refrigerated Benchtop Centrifuge**

- ❖ Centrifuge should be supplied with fixed angle rotors of 6x500 ml with maximum speed of 9000 rpm and with 17,000 x g.
- ❖ Rapid cooling system and Short spin key
- ❖ The range of temperature should be in between -20 °C to +40 °C
- ❖ Upgradable to different Fixed angle and Swing out rotor types. Very low noise level <57 with swing out and <66 fixed Angle dBA
- ❖ Rotor should be made of anodised aluminium to ensure chemical resistance and with torque wrench for safety.
- ❖ Rotor must be autoclavable at 121°C for 20min.
- ❖ Easily programmable digital display for speed and time and also able to switch display between rcf and rpm speed setting
- ❖ Microprocessor controllable with single nob and should have bucket cycle monitoring
- ❖ Accelerations 10 and Decelerations 10 with user definable acc./decc curves
- ❖ Automatic motorised locking of lid, Automatic imbalance detection, and Automatic rotor recognition.
- ❖ Closed SS bowl in side chamber to clean easily if any spillage (No drain system).
- ❖ Optional: Adaptors for 15/50ml
- ❖ Must have automatic temperature start up at a specific time to automatically pre-prepare temperature before centrifugation
- ❖ Manufacturer should have the products being CE Marked.
- ❖ Supplied to reputed organisation and industries
- ❖ Warranty: 2 years
- ❖ Should have journal publication references
- ❖ Should have servicing facility at Chennai
- ❖ Two-bid system: separate technical and financial bids