



**DEPARTMENT OF BIOTECHNOLOGY**  
**Indian Institute of Technology, Madras, Chennai, 600 036,**  
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D.KARUNAGARAN  
Professor and Head

Date: 08.01.2015

**Ref: BT/SMAH/2014/029/SPL**

**Dt. 08.01.15**

**Due Dt.22.01.15**

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 livable 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 livable 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.

## **Peltier based low volume shaker with accessories**

### **Specifications:**

**Quantity: 8**

- System should be able to provide peltier driven heating and cooling, with mixing also.
- Temperature range: 15° below ambient to 100°C, with minimum setting of 1°C
- Mixing frequency: 300-3000rpm
- Incubation accuracy:  $\pm 0.5^{\circ}\text{C}$  above ambient temperature
- Instrument should be specifically designed to take care of cross contamination, by making sure spillage or lid wetting does not happen even at very low volumes
- Instrument should have inter-changeable blocks for accommodating 0.2ml, 0.5ml, 1.5ml, 2ml, 5ml, 15ml, 50ml and MTP.
- Instrument should be able to recognize the blocks automatically and their respective speed and temperature.
- Accessories
  - Thermo block: 0.5 ml – 3, 1.5ml - 3, 5ml - 2, 15ml - 2, 50ml - 2 ,  
96 well PCR plate -2, MTP plate - 2
  - Thermo top - 4
  - Thermo block: 0.2ml (PCR plate) – 1 no.
  - Tube adaptor: 15 ml (2nos) and 50 ml (2nos)
  - Ni-Cd battery – 5 set, Low volume cuvette – 2pack
  - 96 well RT plate – 50 pack, Strips (RT) - 50 pack, Strip cap (RT) - 50 pack
  - Rotor (6X15/50 ml)-1, Adaptor for 15ml tubes – 6,  
Adaptor for 30 ml Oak ridge tubes – 6,
  - Rotor 30X1.5/2ml – 1, Plate Rotor-1
  - Stainless steel lid – 1 and poly propylene lid - 1
- Programming facility with interval mixing should be possible, should be able to store 20 programs with four steps each.
- Warranty : 3 years

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**HEAD DEPT.OF BIOTECHNOLOGY**