

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

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D.KARUNAGARAN Professor and Head

Ref: BT/RAMS/2014/023/SPL Dt. 11.12.14 Due Dt.29.12.14

Date: 11.12.2014

- 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.

## Refrigerated and Incubated Floor Shaker - SPECIFICATIONS

- It should be Corrosion-resistant stainless-steel chamber accommodates a variety of 18 x 18 in. (45.7 x 45.7 cm) universal and dedicated platforms.
- It should have Durable powder-coated, cold-rolled steel exterior construction.
- The Electrical outlet inside chamber should provide power for safe operation of shakers, stirrers or rotators.
- It should have Triple eccentric drive handles heavy loads, provides uniform agitation and continuous 24-hour operation, even at high speeds
- It should Monitor and control chamber temperature over complete range with ±0.1°C accuracy at 37°C.
- It should have a provision for Universal Platform (18 x 18") and Dedicated Platform (18 x 18")
- The Universal Platform should have a provision to hold upto 6 Liters Flask
- The Universal Platform should also have the Provision to hold maximum of upto 16 nos of 500 ml Flask,16nos of 250ml Flask, 9 nos of 1L Flask.Requirement for Clamps 10nos of 500ml, 16nos of 250ml, 4nos of 1L, 10 nos of 125 ml should be provided.
- It should have Variable speed control from 15 to 500 rpm.
- It should have Continuous/timed operation from 0.1 hour to 999 hours or 0.1 minute to 999 minutes.
- View speed, operating time and temperature simultaneously on three individual LED displays.
- It should have Visual/audible alarms alert you to temperature deviations. Heat turns off if temperature deviates ±1°C of set point.
- It should have Unbalanced load sensor that stops platform motion when excess vibration is detected visual/audio alarms signal until condition is corrected.
- It should Retain parameters during power failure and restarts unit automatically after power is restored.
- It should have Over-temperature safety feature with independent thermostat provides additional backup by controlling heat if main temperature controller fails.
- It should have Safety interlock stops shaking motion when the door is open.

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