

Department of Zoology

University of Delhi

September 15, 2014

NOTICE INVITING TENDER

The Department of Zoology invites sealed tender offers eligible manufacturers/authorized distributors/dealers for the supply of Deep Freezer in the Department of Zoology, University of Delhi, Delhi. The vendors intending to bid may follow the specifications listed and the other details and submit their bids to Prof. Rina Chakrabarti, Principal Investigator, Indo-Norwegian project, Department of Zoology, University of Delhi, Delhi-110007 within 21 days of this call.

SPECIFICATIONS

Type	:	Upright
Capacity	:	400-450 liters
Temperature Range	:	-50 °C to -86 °C with 1 °C increment.
Electric supply	:	220V/50Hz, 13 Amps. single phase

1. Fully programmable microprocessor controlled with membrane keypad and eye level control panel.
2. Freezer with least power consumption will be preferred <9.0 kWh/day & noise level <55Db.
3. Freezer should have least pull down time from ambient to - 85 °C <5 Hrs.
4. Freezer should hold minimum of 240 no's of 2"boxes & 24,000 no's of 2" vials per freezer.
5. System should have 304L grade stainless steel interior and tough, powder coated exterior finish constructed on steel gauge of 18g ZINTEC 1.2 mm thick.
6. System should have Vacuum insulation panel combined with traditional polyurethane foam 130mm thick for exceptional energy efficiency.
7. Freezer should have five insulated inner doors with 4 adjustable shelves.
8. Freezers should have heated air vent to prevent vacuum formation and front panel air filter.
9. Heavy duty lockable castors and lockable outer doors and lids.
10. Freezer must have battery back-up and 4 PIN security lock for unauthorized tempering.

11. Freezer must have RS 485 interface data logging port & on board diagnostic software on control panel.
12. Audible and visible alarms for temperature, power failure, system failure, battery low etc.
13. Freezer must use CFC-FREE, HCFC-FREE non flammable refrigerants, and refrigeration system must be energy efficient and hermetically sealed cascade refrigeration system. Compressor should be capable to run any voltage between 190 – 270V. Freezer must have ISO 9000 safety requirements and IEC 61010 Electrical safety CE certified.
14. Freezer must have washable condenser filter indication which should keep fins free of dust to maintain peak cooling efficiency.
15. System should be quoted along with 5KVA servo voltage stabilizer.

Freezer should be warranted for minimum 12 months & compressor for 5 years from the date of installation. All vendors are requested to attach original technical literature/ catalogue in support of the mentioned specifications & highlight the above features.

**Instructions to the suppliers:**

Two kinds of quotations may be submitted, one technical quotation consisting of all technical details along with commercial terms and conditions, and one financial quotation containing item wise price for the items mentioned in the technical quotation. Both the quotations should be sealed by the supplier in separate covers duly super scribed and both these sealed covers are to be put in a bigger cover which should also be sealed and super scribed. Company should attach user's list and performance certificate. The supplier shall bear all costs associated with the preparation and submission of its quotation including samples, literatures, etc.

**Conditions of the Contract:**

The bidders will have to quote all the items together, partial quotes will not be considered. Quantity, make, model and technical specifications should be mentioned clearly. It may be stated that the rates are inclusive of taxes applicable and charges for onsite installation. Validity period of quotation should be 180 days from the due date. Any alteration/overwriting should be initialed. The period of warranty will start only after successful installation and satisfactory operation.

University reserves the right to order equipment with better quality over lower price and to accept or reject any or all quotation without assigning reasons thereof. The bidders have to provide the following information with their technical quote.

- Manufacturer authorization certificate.
- Details of support and service centers.
- Warranty compliance statement.
- Complete user list with name, address and telephone number for the past three years.

Prof. Rina Chakrabarti

Principal Investigator, Indo-Norwegian Project

Aqua Research Lab

Department of Zoology

University of Delhi-110007