

KUSUAM SCHOOL OF BIOLOGICAL SCIENCES

IIT DELHI

03.07.2012

Kusuma School of Biological Sciences wishes to procure a -80 °C upright ultra low deep freezer of the following specification. Potential vendors are requested to submit their quotes in a two bid format, indicating technical and commercial bids in separate sealed envelopes put in a covering envelope, clearly mentioning "Quote for ultra low deep freezer". The vendors are also requested to provide a separate **compliance sheet and a list of users** for easy comparison of bids. The quotes should reach the undersigned before or on **27th of July 2012 by 4.00 pm**. Delayed submission will not be considered.

Specifications for -80°C ultra low temperature deep freezer:

1. Type: Upright
2. Working capacity : 550-700 litres
3. Vacuum Insulated Panels (VIP) for better thermal insulation, power saving, & small foot print.
4. Electric Supply: 220V/50Hz, 13 Amps. Single phase.
5. CFC & HCFC free refrigerant.
6. Cascade cooling system
7. Audible & Visual fault- acknowledge buzzer.
8. Should have heated air vent and front panel air filter.
9. High pressure switch
10. The door of the freezer should be locked using the key or by locking leaver.
11. Temperature stability +/-1degree C & uniformity +/-3 Degree C
12. PID control interface with temperature set programming
13. Temperature setting range -55 to -86 Deg C
14. Low & high temperature audio visual alarms, condenser fault alarm, remote alarm contact, open door alarm clean filter indicator, power failure alarm.
15. Thermal conductivity: <0.005W
16. Height adjustable 4 standard sample compartments
17. Insulation composition; galvanised steel sheet should be protected with epoxy paint & vacuumed polyurethane foam panels.
18. Hot gas bypass tube installation to minimize frost on the triple silicone door lip to prevent door jam and should be fitted with decompression valve facility to lower air pressure, inside the freezer for easy door opening.
19. Wall thickness max 8 cm to reduce the foot print, external dimension minimum for saving lab space.
20. CO₂ backup system with first time supply of CO₂ cylinder, controller and regulator

21. Warranty of minimum 5 years on compressor and three years on the entire system.
22. Suitable Voltage stabilizer

General Terms and conditions

1. The supplier must be an authorized dealer/distributor of the principal/manufacturer and should furnish an authorization certificate from the principal/manufacturer. Quotations without authorization certificates will be rejected.
2. FOB (Freight-on-board) price for IIT Delhi should be quoted with all the terms and conditions i.e. applicable taxes, installation, warranty and delivery schedule.
3. The quotations must be valid for a period of at least 3 months.
4. The supplier may provide a list of Institutions in India where this equipment has already been supplied along with relevant contact details.
4. A special discount/rebate wherever admissible keeping in view that supplies are being made for educational purpose in respect of public institution of national importance may be indicated.
6. The institute reserves the right to accept or reject any or all quotations without stating the reasons thereof.
7. Payment terms must be stated clearly (no advance payment will be made).

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