

DEPARTMENT OF PLANT MOLECULAR BIOLOGY
UNIVERSITY OF DELHI SOUTH CAMPUS
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Tender Enquiry for Ultra Low Temperature Freezer (-86C)

E-tender is invited from companies for supply & installation of **Ultra Low Temperature Freezer (-86C)** with the requisite accessories needed for the effective functioning of the equipment as per specifications below. Quotations can be submitted on Govt. of India eProcurement website (<https://eprocure.gov.in/eprocure>).

SPECIFICATION FOR ULTRA LOW TEMPERATURE FREEZER (-86C):

- 1. Upright Freezer with capacity of at least 530-600 Litres & should hold at least 330 Boxes (2" height) or 33,000 vials/ samples.**
2. System should have Programmable operating temperature from -50°C up to -86°C with 1°C increment.
- 3. System is highly energy efficient with low Energy Consumption ≤ 14 KWh/day, provides significant operating cost savings and eco-friendly operation**
4. Fully programmable microprocessor controlled with membrane keypad and eye level LED control panel.
- 5. Freezer construction should be of advanced vacuum insulation panel (VIP) with polyurethane foam with overall wall thickness ≤ 80 mm to provide more inner space for sample storage.**
6. System should be made up of 18 gauge Steel, 1.2 mm thick with powder coated paint to resist scratch and rust and the interior should be Polished with 304 SS for easy cleaning and to eliminate potential for oxidation.
7. Inner door should have silicone seal to prevent temperature loss and Outer door should have safe silicone triple point seal.
8. Freezer should have 3 Compartment with two adjustable height stainless steel shelves.
- 9. Ambient to -85°C pull down timing should be ≤ 6 hrs & noise level ≤ 60 d BA.**
10. Freezers should have heated air vent and front panel air filter.
11. Should have security keyed locks on the outer doors and lids keep out unauthorized users.
- 12. Freezer must have secured access to avoid accidental power off of Freezer.**
13. Freezer must have battery back-up and 4 PIN security lock for unauthorized tampering.
14. Freezer must also have on board advanced diagnostic software to trace system errors.
15. Audible and visible alarms for temperature, power failure, system failure, battery low etc.
16. Freezer should have CFC-FREE, HCFC-FREE non-flammable refrigerants & must be energy efficient and hermetically sealed two stage cascade refrigeration system. Compressor should be capable to run any voltage between 190 – 270V.

17. Freezer must have ISO 9001 standard quality test requirements and IEC 61010 Electrical safety CE & UL certified.
18. Freezer should be supplied along with CO2 backup system along with CO2 gas cylinder & dip tube to maintain Freezer temperature between -50°C to -70°C during power outage & should be microprocessor controlled.
19. All vendors are requested to attach original technical literature/ catalogue in support of the mentioned specifications & highlight the above features. The same features should be available in the company website.
20. The vendor should attach user list of at least 30 users the same model supplied to various reputed institutes/research labs/ICAR/CSIR institutes throughout India.
21. Freezer should have comprehensive warranty of 3 years plus 2 years free service after expiry of warranty from the date of installation.

Other Specifications

1. **Warranty / Guarantee:** Bid must be quoted with 3 years comprehensive on-site warranty and 2 years free service after expiry of warranty including all components, accessories and software purchased and annual maintenance. Warranty for extended period (beyond standard warranty of the respective companies) should be mentioned separately in the bid. It will be effective from the date of the satisfactory installation / commissioning of goods. The warranty would also be valid for any manufacturing defects, workmanship and poor quality of the components
2. **Delivery & Installation:** All the goods ordered shall be **delivered & installed within five weeks from the date of issuing purchase order.** All the aspects of safe delivery, installation and commissioning shall be the exclusive responsibility of the supplier. If the supplier fails to deliver, install and commission the goods on or before the stipulated date, a penalty at the rate of 5% per week of the total order value will be levied
3. In need of any repair/replacement of the instrument after registering the complaint engineer should visit the lab within 24 hours, repair should be done in 48 hours and any replacement should be done within seven working days.
4. Item quoted should be complete in all respects; any additional accessories required for instrument to operate /function should also be quoted as part of the instrument and should be supplied along with instrument. It should not be included in optional

5. Any deviation from the mandatory technical specifications and all other conditions proposed by the bidder should be clearly mentioned/highlighted in the first page of the tender. If deviations are not provided, the bid will be automatically considered as complying with all the requirements and specifications mentioned in the tender
6. Original manufacturer's product catalogue and specification sheet in English should be attached
7. Bidder shall upload the tender document and addenda there to, if any, with each page of this document signed and stamped to confirm the acceptance of the entire terms & conditions as mentioned in the tender enquiry document
8. Vendor should have minimum of 30 installations of quoted model installed in various reputed institutes/research labs/ICAR/CSIR institutes throughout India.

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New Delhi

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