



Notice Inviting e-Tender

West Bengal Medical Services Corporation Limited

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Procurement of Medical Equipment for the Blood Centres at Hospitals and Medical Colleges of Govt. of West Bengal
(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-345/2023

Dated-05.07.2023

Amendment-I

TECHNICAL SPECIFICATION

Item-I

Deep freezer -40 degree

1. TECHNICAL CHARACTERISTICS:

- Compression freezer with CFC free refrigerant.
- Internal: Stainless steel (min. 22g).
- Mounted on Lockable Castor wheels.
- External: Solid outer Corrosion Resistant (at least 1mm thickness).
- CFC free insulation.
- **Design: Upright Type. 340-400 Lit capacity.**
- Door does not project at side when opened.
- Insulation and gasket should Polyurethane/ Silicon insulation should be minimum of 80mm.
- Internal Temperature Control: Electronic temperature control.
Operating temperature reachable lowest up to -40° C with setting accuracy of ±1 deg C whatever the load.
- Manual defrost within safe temperature range.

- Casing & door should have insulation panel with silicon / polyurethane foam & 70 to 100 mm thickness.
- Refrigerant CFC free/ green gas.
- **External Ambient temperature:** Performs in an ambient temperature of +10 deg C to +30 deg C.
- **Hold over time:** 2 hrs ambient temperature.
- **Cooling Down time:** A full load of plasma packs at +25 deg C takes a maximum of 5 hrs for all the packs to reach below 5 deg C.
- **Temperature Monitoring:** Digital temperature (LED) display with 0.1 deg C graduation.
- **Capacity:** As required by the blood bank (e.g. atleast 400 plasma bags of 200 mL each)
- **Settings:** Manual
- **User's Interface:** Manual
- **Alarm:** Power failure, High Temperature, Low Temperature, Power Failure, Remote alarm facility (provision)

2. PHYSICAL CHARACTERISTICS:

- 2.1. **Noise (in dBA):** Noise factor should not exceed 60 decibels

3. ENERGY SOURCE (electricity, UPS solar, gas, water, CO2.):

- 3.1. **Power requirement:** Input voltage 220/240V 50 Hz along with a line voltage corrector of appropriate rating
- 3.2. Battery operated display, chart recorder & thermograph.

4. ACCESSORIES, SPARE PARTS, CONSUMABLES:

- 4.1. **Accessories & spare parts:** Complete with comprehensive set of spare parts and a suitable capacity voltage stabilizer. The make, rating, model, description, specification, price, quantity of each item shall be furnished separately.
- 4.2. 100 pieces of thermograph paper should be supplied & must be compatible with device at the time of delivery with supportive ink of 12 marking ink pen (if inkless thermograph, pen is not required)

5. ENVIRONMENTAL & DEPARTMENTAL CONSIDERATIONS:

- 5.1. **Atmosphere / Ambiance (air conditioning, humidity, dust...):** Capable of operating continuously in ambient temperature of 10 to 30 deg C and relative humidity of 15 to 90%. Capable of operating continuously in ambient temperature of 10 to 30 deg C and relative humidity of 15 to 90 %.

5.2. Additional requirement: All equipments should specify design qualifications, installation qualifications, operational qualification and performance qualifications, validation and calibration reports should have traceability towards applicable national/ international standards. Performance, efficiency, other factors such as distortions etc as applicable be also furnished. Complete construction details in respect of manual specification, thickness, finish etc are to be furnished.

6. STANDARDS & SAFETY:

6.1. Product Certification: CE/ US FDA / BIS

6.2. Quality Certification: ISO Certified

6.3. Supporting documents to be provided for protection of electrical safety.

7. WARRANTY

7.1. Warranty: 2 years