



CLARIFICATION/CORRIGENDUM/ADDENDUM

**Subject: Amendment in technical specification of bid document of item (1) Deep Freezer (-) 20 Degree (2) Deep Freezer (-) 40 Degree C (Cap. 300 Plasma Bags), under No. F-8( ) RMSC/EPM/M-1/NIB-667/2022-23/961 date: 07.02.2023**

In reference to subject cited above NIB-667, various representation received from the firms and issues raised by the bidder are examined by the competent authorities and technical committee. The following clarification/corrigendum/addendum is issued for inclusion in bid document of items as below:-

**Revised Technical Specifications for Deep Freezer (-20<sup>o</sup> C):-**

1. The system should be vertical standing model.
2. The system should have 7 segment/LCD electronic control unit with digital temperature display on panel.
3. The outer body of system is made of **powder coated corrosion –resistant sheet** and inner body high grade stainless steel/ABS plastic.
4. The system should have volume capacity of 350 liters  $\pm$  10 liters
5. The temperature range should be (-20<sup>o</sup> C to -25<sup>o</sup> C) or below.
6. The system should be microprocessor controlled.
7. **The system should have 24-hour backup for Uninterrupted 24 X 7 electronic temperature circular chart recorder / integrated digital temperature cum controller with inbuilt 7 days inkless circular chart recorder with supply of 200 free charts and should be provision to connect with central (temperature) monitoring system/data logger for monitoring the temperature and should have capacity to store more than 5 year data and data can be transfer by USB.**
8. The system should have CFC Free refrigerant.
9. The entire cabinet should be able to maintain uniform temperature in each drawer.
10. The system should have PUF insulation.
11. The system should have minimum 4 or more in number drawer/shelves with single/individual lids.
12. The system should have a built- in audible & visible alarm, if temperature fluctuates from its set-point range & door open warning system.
13. Firm should bring calibrated digital temp. Monitor/Thermometer (NABL Accredited) to check entire cabinet temp at the time of demonstration.
14. **Should be compliant as per applicable standard with European CE (Notified body) or USFDA (Valid documentation should be submitted in technical bid).**
15. **Manufacturer should be compliant with ISO 13485 accredited from IAF (Valid documentation should be submitted in technical bid).**
16. A servo stabilizer inbuilt/external to be supplied with the system
17. The system should be operable at 220-230 V & 50-60 Hz

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18. Supply with four wheel base for easy operation with locking mechanism.
19. Guarantee: Three years on equipment

**Revised Technical Specifications of (-) 40 degree C Deep freezer (Cap. 300 Plasma Bags)**

1. Purpose of Equipment
  - a) To Freeze or store Plasma.
  - b) Must be designed specifically for BloodCenter use. Commercial or modified commercial freezers for other purpose are not acceptable.
2. Type of Equipment
  - a) Microprocessor controlled Temperature controlling. Digital LCD /LED display at eye Level.
  - b) With audio alarm for temperature deviation, power failure, door open etc.
  - c) Should have 24 hour battery backup for uninterrupted 24X7 electronic temperature circular chart recorder /Inkless graphic Temperature recorder with range of 0°C to -50°C with data logger and **USB facility** with supply of free charts for period of guaranty and controller unit keeps the temperature monitoring uninterrupted.
  - d) Approved standard electrical BloodCenterplasma freezer that uses a compressor circulating CFC-free refrigerant / Green gas.
  - e) Upright type
3. Quality Standard:
  - a) Manufacturer should be compliant with **ISO 13485 accredited from IAF** (Valid documentation should be submitted in technical bid).
  - b) Should be compliant **as per applicable standard** with European CE (Notified body) or USFDA (Valid documentation should be submitted in technical bid).
  - c) **Equipment must meet electrical safety standard of IEC 61010-1(Valid documentation should be submitted in technical bid).**
4. Capacity:
  - a) At least 300 standard plasma bags
5. Construction:
  - a) Outside C. R. (Corrosion Resistant) Sheet at least 1 mm thick
  - b) Inside stainless steel of at least 22 G.
  - c) Insulation polyurethane foam >80mm thick, foaming agent CFC free
  - d) Should be mounted on lockable caster wheels
6. Drawers:
  - a) At least four or more in number made up of SS 304 grade stainless steel
7. Door:
  - a) Separate inner doors to prevent cold loss
  - b) Automatic/Magnetic/ Latch closing of at least inner doors.
  - c) Heating device/ vacuum release valve in front to avoid condensation
  - d) Opening angle limited (eg<135°)
  - e) Door open/buzzer audio and visual alarm
  - f) Door lock should be available
8. Electrical characteristics:
  - a) Compatible with Input 240V 50 Hz Single phase AC
  - b) Should have an integrated voltage stabilizer or external stabilizer of appropriate ratings meeting ISI Specifications (Input 160-260 V and output 220-240 V and 50 Hz).
  - c) Minimum compressor starting voltage should be 22% below normal voltage
9. Internal Temperature:
  - a) Should be able to maintain internal temperature not warmer than -30°C Audible / visual over temperature Alarm.
  - b) Whatever the load, setting accuracy less than or equal to 1°C
  - c) For the purpose of defrosting (either Automatic or manual system), temperature should not go outside safe range
10. External Ambient Temperature:
  - a) Can perfectly maintain internal temperature as above at full load in an ambient temperature of +10 to at least +40 °C
11. Hold-Over Time:
  - a) 2 Hrs at ambient temp.

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12. Cooling down time:
  - A full load of plasma packs at +25 °C takes a maximum of 5 hr for all packs to reach below -5°C.
  - A full load of plasma packs at +25 °C takes a maximum 30 hrs for all packs to reach below -20 °C
13. Additional requirements:

Complete with comprehensive set of spare parts and a suitable capacity stabilizer and one -1.5 Ton split A.C of repute make (can be o-general/mistubishi/daikain) should be supplied with the system free of cost. (Guarantee card with bill have to be submit with item to claim guarantee)
14. SMS alerts to user defined recipients in case of any deviation in temperature, break down and power failure with provision to connect with central (Temperature) monitoring system / facility of wireless data transfer facility & storage of temp. data on cloud, with continuous accessibility of data on PC or laptop and on smart phones with internet facility
15. Noise factor should not exceed 60 decibel.
16. Guarantee: Three years on equipment from the date of installation.
17. CMC: CMC will be given @ 5 % (of net rate -Rate exclusive of GST (as applicable) and yearly escalation of 5 % on last year's CMC price. The CMC may be awarded for five years (on yearly basis) after completion of Guarantee period of three years
18. The company should submit technical compliance sheet as per technical specifications mentioning the make & model of quoted item along with catalogue in the Technical bid.
19. Installation will be done by supplier free of cost.
20. The service engineer should be based in Rajasthan.
21. Four Preventive Maintenance services annually during Guarantee and CMC period are essential.
22. Demonstration of equipment is must for final technical app

**Note:-** Please note that all above amendments/corrigendum in technical specifications/bid conditions is the integral part of (Section-VIII) and the bid document. This corrigendum/ addendum should be signed and annexed with bid document. All other terms & conditions remains the same.

**Executive Director (EPM)**  
**RMSCL, Jaipur**

