

## Notice Inviting e-Tender

West Bengal Medical Services Corporation Limited  
Swasthya Sathi  
GN-29, Salt Lake, Sector-V  
Kolkata-700091

Phone No (033) 40340308  
E mail: [procurement@wbmsc.gov.in](mailto:procurement@wbmsc.gov.in)

SUPPLY AND COMMISSIONING OF MEDICAL EQUIPMENTS FOR BLOOD COMPONENT SEPARATION UNIT FOR THE HOSPITALS AND MEDICAL COLLEGES OF THE GOVT. OF WEST BENGAL.

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL /NIT- 47 /2016

Dated – 16.08.2016

The following amendment have been made in the tender document,

### **Amendment - III**

#### SCHEDULE – II

#### Refrigerated Centrifuge (Cryo Centrifuge)

##### 1. TECHNICAL CHARACTERISTICS:

##### 1.1. Refrigerant Centrifuge with CFC free refrigerant.

##### 1.1.1. Construction:

- Microprocessor controlled system to make operation automatic, Programmable memory: Memory with tamper proof facility.
- Stainless steel chamber : Easy to clean, corrosion resistant with provision of both drain and condensed water collection container, Removable plastic cups to hold single/double/triple/quadruple/quintuple (soft filter) blood bags with partition in every bucket.
- Insert with hook adapter to spin buffy coat or small volume of blood and balancing weights for inserts. Equipped with automatic lid lock.
- Speed variation: Microprocessor controlled rotor speed to within 10 rpm of set value.
- Acceleration and deceleration profiles shall be available.

- Microprocessor controlled rotor temperature within 1 deg C of set temperature regardless of the centrifuge speed.
  - Programmable time: 0-99 minutes with minimum resolution of 1 minute.
  - Digital display of temperature, speed and time.
  - Minimum no. of 3 digit resolution. Motor imbalance detection: Automatic shut down of centrifuge.
  - If rotor load is out of balance with appropriate indicator.
  - Should incorporate alarms for imbalance detection lid interlock, over temperature, rotor over speed.
  - Temperature should reach 4 deg C with full load (accuracy  $\pm 0.5$  deg C)
- 1.2. **Capacity:** Swing bucket blood bank rotor: With metal buckets, 6 x 2000mL, wind shielded, Suitable adaptors for 12 blood bags of 350mL & 450mL with soft filter.
  - 1.3. **Settings:** Manual
  - 1.4. **User's Interface:** Manual
  - 1.5. **Software and/or standard of communication:** required for the documentation purposes

#### PHYSICAL CHARACTERISTICS:

- 1.6. **Noise (in dBA):** Noise factor should not exceed 60 decibels
2. **ENERGY SOURCE (electricity, UPS, solar gas, water, CO<sub>2</sub>...):**
  - 2.1. **Power Requirements:** Input voltage single phase along with a servo voltage stabilizer of appropriate rating with input voltage of 110 to 280 V 50 Hz and output voltage 220 V  $\pm 10$  and high low voltage auto cut.
3. **ACCESSORIES, SPARE PARTS, CONSUMABLES:**
  - 3.1. **Accessories & spare parts:** Complete with comprehensive set of spare parts. Volume & weight compensate accessories should be provided in adequate quantity to run full capacity.
4. **ENVIRONMENTAL & DEPARTMENTAL CONSIDERATIONS):**
  - 4.1. **Atmosphere / Ambiance (air conditioning, humidity, dust...):** Capable of operating continuously in ambient temperature of 10 to 40 deg C and relative humidity of 15 to 90%
  - 4.2. **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.

**5. STANDARDS & SAFETY:**

5.1. Product Certification: CE or US FDA certified

5.2. Quality Certification: ISO Certified

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

**6. WARRANTY & MAINTENANCE:**

6.1. **Warranty:** 2 years

6.2. **CMC:** 5 years