

## Notice Inviting e-Tender

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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 – VI

#### Refrigerated waterbath (cryobath)

##### 1. TECHNICAL CHARACTERISTICS:

- For uniform thawing of plasma bags at preset temperature of  $4^{\circ} \text{C} \pm 0.2^{\circ} \text{C}$
- **Construction:** For uniform thawing of plasma bags at present temperature of  $4^{\circ} \text{C} \pm 0.2^{\circ} \text{C}$ .
- High capacity pumps to facilitate optimum and uniform thawing of plasma.
- System to prevent contamination of individual ports during thawing.
- Microprocessor based digital controller to precise monitoring and controlling of temperatures at  $4^{\circ} \text{C} \pm 0.2^{\circ} \text{C}$ .
- Stainless Steel (SS 304) tank of 22 gauge and stainless steel lid of at least 20 gauge.
- Drain line with shut off valve.

- Mounted on lockable castor wheels Temperature sensing method: Sealed sensor dipped directly in water.
- **Power Consumption:** Maximum 1600 W.
- **Operating Temperature:** 2° C to 6° C.
- **Programmable Tem. Range:** 2° C to 50° C.
- **Display Resolution :** 0.1° C-0.5° C
- **Time Taken:** Time taken for one process should not be more than 2 hours for plasma bags store at -40° C.
- **Tray:** Stainless steel (SS 304) removable tray of individual compartments for holding plasma bags.
- **Capacity:** 10-20 bags per run or per one cycle.
- **Setting:** Manual.
- **User interface:** Manual.

## 2. PHYSICAL CHARACTERISTICS:

2.1. **Noise (In dBA):** Noise factor should not exceed 60 dB

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

3.1. **Power requirement:** Input voltage 230+ 10%V, 50Hz, 15Amp Single phase AC

## 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.

## 5. ENVIRONMENTAL & DEPARTMENTAL CONSIDERATIONS:

5.1. **Atmosphere / Ambiance (air conditioning, humidity, dust...):** Capable of operating continuously in ambient temperature of 10 to around 30° 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 or US FDA certified

6.2. Quality Certification: ISO Certified

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

7. WARRANTY & MAINTENANCE:

7.1. Warranty: 2 years

1.1. CMC: 5 years