

## **Notice Inviting e-Tender**

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**SUPPLY OF BLOOD-BANK EQUIPMENTS IN THE HOSPITALS AND MEDICAL COLLEGES OF THE GOVERNMENT OF WEST BENGAL.**

(Submission of Bid through *online*)

**Bid Reference No.: WBMSCL/NIT- 48 /2014**

**Dated- 02.08.2014**

**The following amendments have been made in the Updated Technical Specification (Amendment: XIV) published on 09/09/2014. The amendments are highlighted in yellow.**

### **Amendment - XVIII**

#### **SCHEDULE - V**

#### **BLOOD COLLECTION MONITOR**

1. The system is used to collect donated blood from the donor at the same time mixing the blood for quality collection of blood.
2. It is meant for stationary and mobile use. Gentle end to end mixing and control of collection time to give high quality blood suitable for all blood bags.
3. Volume Setting: Pre-selection of volume to be collected. Tarring of bag volume before collection. Tarring range: 0 – 600 g. Automatic storage and recall of set volume. Measure volume with best accuracy.
4. LED indication on commencement of collection.
5. LED indication and audible alarm at the end of collection.

6. Indication of time taken for collection.
7. Indication of blood flow with audio alarm when blood flow is higher or lower than desired.
8. Continuous display of collected volume, flow and time during collection.
9. Automatic clamping at termination of preset volume collection.
10. Automatic release of bag when lifted.
11. Continuous agitation of blood bags during collection: 12 – 16 rpm.
12. Equipment carry case for Blood Collection Monitor should be provided for portability.
13. Should operate on mains as well as rechargeable battery. On battery it should operate for a minimum of 5 – 8 hours.
14. The unit shall be capable of operating continuously in ambient temperature of 10 – 40 °C and relative humidity of 15 – 90%
15. Power input to be 220 – 240 VAC, 50Hz, / 440 V **Single Phase** as appropriate fitted with Indian plug.
16. Resettable over current breaker shall be fitted for protection.
17. Suitable Automatic Voltage regulator/ stabilizer meeting ISI specifications should be supplied. Broad specifications are: Automatic Type Input 150 – 280V, Output 220V  $\pm$  7%, 50Hz. Single phase, AC with automatic 2 – 4 sec Cut Off and 6 – 9 minutes restarts delay. Quick start arrangements for bypassing the start delay. Suitable MCB on input voltmeter and indicators on Front Panel. Input Power Cable with 15A Plug and six way output terminal strip for two outlets.
18. Certifications:
  - Product certification: **CE Class I** or US FDA certified
  - Quality Certification: ISO certified
  - Electrical Safety: Equipment meets electrical safety specifications such as that of IEC (Class I) or Class II type – B device to protect against electric shock.  
Shall meet IEC – 60601 – 1 – 2: 2001 (Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility.