

**Notice Inviting e-Tender**  
**West Bengal Medical Services Corporation Limited**  
**Swasthya Bhawan Complex**  
**GN-29, Salt Lake, Sector-V**  
**Kolkata-700091**

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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 amendment have been made in the tender document,**

**Amendment - I**

**REVISED TECHNICAL SPECIFICATION**

**SCHEDULE - I**

**Blood Bank Refrigerator (600 Litre)**

- |                                    |   |   |
|------------------------------------|---|---|
| 1. Type                            | : | Vertical  |
| 2. Chamber Temperature range       | : | Between + 2 <sup>0</sup> C to + 6 <sup>0</sup> C  |
| 3. Accuracy of Temperature Sensor: | : | 0.1 - 0.5 <sup>0</sup> C (+ / -)  |
| 4. Chart range                     | : | 0 - 40 <sup>0</sup> C   |
| 5. Duration of Chart               | : | 7 days  |
| 6. Display                         | : | 4 X 7 segment LED / LCD (Red)   |
| 7. Display range                   | : | 0.1 - 0.5 <sup>0</sup> C  |
| 8. Recording                       | : | Made (in ink / inkless) on a weekly circular chart Paper.   |
| 9. Refrigerant                     | : | R134a, CFC free   |
| 10. Cabinet material               | : | 18 SWG CR sheet power coated  |
| 11. Mounting                       | : | On castor wheels  |
| 12. Condensate evaporator          | : | For automatic evaporation of condensate which collects in a tray provide at the rear of the cabinet |

13. Internal lighting	:	CF Lamp 14 W
14. Voltage Stabilizer	:	A Voltage stabilizer of suitable capacity built - in. (1 -2 KVA)
15. Power source	:	160 – 270V, 50 Hz single phase AC
16. Temperature Sensing Method	:	Encapsulated Digital sensor dipped in 0.25% glycerin solution kept in plastic bottle
17. Trays	:	Sliding trays (stainless steel), removable type
18. Volume	:	600 L
19. No. of trays	:	5
20. Power consumption	:	1500 W (max.)
21. Acrylic door	:	Separate inner clear acrylic doors
22. Door	:	Triple Pane door glass fitted in door frame made of 18 SWG CR sheet, Power coated with structure finish and filled with formed in position PUF
23. Slide out rail for the shelves	:	Heavy duty telescopic rail
24. Compressor	:	Hermetically sealed compressor
25. Miniature Circuit braker (MCB)	:	240 V / 10 A
26. Air circulation inside the chamber :		Continuously operated forced air circulation using the evaporator fan
27. Audio – Visual alarms to alert any abnormal conditions as follows:		<ul style="list-style-type: none"> <li>• Line in (Visual)</li> <li>• Power (Visual)</li> <li>• Compressor ON (Visual)</li> <li>• Heater ON (Visual) {OPTIONAL}</li> <li>• Temperature High (Audio- Visual)</li> <li>• Temperature Low (Audio- Visual)</li> <li>• Door open (Audio- Visual)</li> <li>• System OK (Visual)</li> <li>• Battery Low (Visual)</li> <li>• Battery ON (Visual)</li> <li>• Power failure (Audio- Visual)</li> <li>• Sensor failure (Audio- Visual)</li> <li>• Chart change (Visual)</li> </ul>
28. Standards & approvals	:	CE / FDA / BIS or any other Indian or internationally approved safety standard certification
29. Manufacturing Standard	:	ISO 9001:2008 or any other Indian or internationally approved standard certification, EN ISO 13485:2012 (for electrical & biosafety hazard)