

Notice Inviting e-Tender

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SUPPLY OF CARDIO THORACIC VASCULAR SURGERY (CTVS) EQUIPMENTS AND COLOUR DOPPLER SYSTEM IN THE HOSPITALS AND MEDICAL COLLEGES OF THE GOVERNMENT OF WEST BENGAL.

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-44/2015

Dated-09.12.2015

The following amendments have been made in the tender document,

Schedule-II

Amendment – I (Revision of Technical Specification)

The revised technical specifications for the item is given below,

Heart Lung Machine

1. Should have 4 pump on cosole (2 Single and 1 twin) and a Mast pump
2. Should have Rotatable Pump Heads-Each Head can be controlled individually
3. Double Head pumps should be rotatable in different directions with master-slave control
4. Pump Head raceway should have:
 - a) Accuracy 0.03mm
 - b) Occlusion accuracy- 0.03mm

- c) Occlusion rollers accuracy- 0.015mm
- d) Maximum flow up to 11LPM
- 5. Should have integrated centrifugal pump , including double pressure module and temperature module with cables with non-invasive flow sensor
- 6. Should have inline haematocrit and saturation monitor for venous / arterial circuit of heart lung machine
- 7. Should have precise Occlusion / locking Mechanism
- 8. Should have level sensor
- 9. Should have a gradual Venous line occluder
- 10. Should have Timer for Cardioplegia delivery
- 11. Pump start time should be 3 sec minimum
- 12. Should have blender for air, O₂ mixer
- 13. Should be direct drive or belt drive
- 14. Should be modular
- 15. Should have master control display (Pressure, Cardioplegia and temperature monitor) for control
- 16. Should have display of all pump conditions on the pump panel
- 17. Should have minimum 90 mins battery backup
- 18. Sensor and control modules should be easily interchangeable
- 19. Mast system
- 20. Electric field motor driven system
- 21. CE & US FDA approved product.