



Notice Inviting e-Tender

West Bengal Medical Services Corporation Limited

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**Supply and Commissioning of 01 (One) unit of CELL SAVER for the Dept. of CTVS,
Medical College, Kolkata**

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-687/2025

Dated-06.08.2025

AMENDMENT-II

Revised Technical Specification of

Autologous Blood Transfusion System (General) (CELL SAVER)

- Latest generation autologous blood recovery system using micro-processor technology for automated collection and processing of autologous blood during surgery & post surgery.
- Besides automated operation, machine should have option for user to reprogram the parameters & use in Manual Mode
- Should have automatic sensor for sensing the level in the reservoir to initiate machine operation for processing & a digital display of the volume collected.
- It should have computer guided set up to guide the operator in setting up the system.
- It should have dual RBC sensor in the centrifuge well, an ultrasonic air detector on the tubing lines and optical effluent line sensor to provide information to microprocessor for regulation of cycles of machine, and should also have color code to monitor/display the quality of washing. Should have fluid loss sensor.
- There should be touch screen display panel & graphic color LCD TFT Screen to provide information relative to the operation of the system parameters like pump rate, wash volume, wash quality, number of bowls processed product volume and current mode of operation, which should be regularly updated automatically time to time.

- It must be able to remove greater than 95% of Heparine, Protein, Albumin & FPH from collected blood
- Processing time should be less than 5 minutes, Pump speed should be programmable from at least 25 to 1000 ml/min increments and temporarily reset facility with pump speed arrow keys from 0 - 1000ml/min in manual mode.
- Washing bowls should be in minimum 4 different sizes for various kinds of patients 75ml, 125ml, 175ml, 225ml **or single bowls accommodating all sizes** . Should Have an option of doing Blood sequestration process for PPP, PRP1, PRP2 using same bowl set
- Vacuum Pump must be built in & can be used as an integrated and stand alone option also. It must be in range from -50 to -100 mm Hg for post op mode & -50 to -300 in Intra-op mode and with a digital display.
- It should have inbuilt USB ports and Ethernet Ports for data management system.
- It should have inbuilt memory for storing upto 10,000 cases.
- Should have inbuilt printer with permanent printouts.
- Must have a dedicated Post-op mode for turning on suction in gentle mode & same quality processing of shed blood & also storing intra-op data even in post-op period processing.
- Blood collection reservoir must have option for Top outlet collection to bowl & quick reinfusion port for immediate transfusion of non-processed blood Reservoir must have self regulated pressure relief valve & safe overflow level valve.
- Must have separate Intra operative protocols Optimized, Standard, Fat removal & Post-op. including Emergency processing in less than 3 mins.
- Must have a provision for Emergency transfusion without washing the collected blood must be able to wash out atleast 95% of heparine from the collected blood.
- Preferable to have online HCT Displayed, Wash quality, Washed RBC's volume displayed
- Must have an automatic & 1 touch processing of blood
- Should have a facility for sequestration of whole blood into Platelets & Plasma using the same disposable Bowl set as for Intra operative blood processing.

Specs. for Disposables of Machine

- The disposables for the Autologous blood transfusion system must be supplied as a single Procedure Set containing all the necessary components (Hardshell reservoir, collection tubing set, processing bowl set, rein fusion 1000ml blood bag & waste bag)
- Should come with choice of 4 different bowl sizes ranging from 55 ml to 225 ml for all types of surgical blood loss Blood collection reservoir must be a hardshell reservoir & have Max. capacity of 4000 or 4500 ml with a bottom sealed option & blood outlet from the top of reservoir
- There should be min.3 ports in reservoir for blood inlet & an integrated filter of 40 micron with a pressure relief valve.
- Blood collection reservoir must have Max capacity of 4200 ml /4500 ml & have option for Top outlet collection to bowl & quick reinfusion port for immediate transfusion of non-processed blood
- Procedure set must contain the Blood collection & anticoagulation tubing set having a dual lumen set

- The Waste collection bag should be of 10 litres capacity with bottom drainage outlet valve.
- The bidder/OEM should submit valid CDSCO Certificate/Registration/License for both the manufacturer(s) and importer(s) as applicable.