



Notice Inviting e-Tender

West Bengal Medical Services Corporation Limited
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Kolkata-700091

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Supply and Commissioning of different types of Ophthalmic Equipment at Department of Ophthalmology across various Govt. Medical Colleges and Hospitals under the Govt. of West Bengal

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-800/2025
12.09.2025

Dated-

Amendment I

Revised Technical Specification

Schedule I

High End Vitrectomy Machine

VACUUM

1. Should have the facility to generate direct venturi vacuum of up to 650 mmHg through cassette system having 2 independent aspiration ports.

CUTTER

1. Should have the ability to drive vertical guillotine vitrectomy cutter to go up to 10,000 cuts / minute.
2. Machine should be on a upgradeable platform with the capability to drive up to 20000 cpm in future

3. Should have the facility to allow surgeon to select from 3 different duty cycle options at any given cut rate
4. Should have the 3-D technology to linearly control vacuum and cut-rate simultaneously in vitrectomy mode
5. The 10K cutter should have the beveled probe design

IOP Control

1. Should have the capacity to monitor infusion pressure constantly
2. Should have the capacity to compensate the infusion pressure constantly with results in a more stable IOP

Illumination

1. The system should have dual port Xenon/SSI Illumination
2. The System should recognize the gauge of illuminator connected and adjust the illumination accordingly
3. The system should have the facility to monitor the bulb life, to avoid surprises
4. The System should have RFID capacity, which recognizes the probe connected, and automatically loads the settings

Laser

1. The System should have inbuilt green laser capability
2. The Green Laser should have dual port option
3. Should have a Multifunction Foot pedal
4. The System should have Voice Confirmation
5. The System should have RFID capacity, which recognizes the probe connected, and automatically loads the settings.

MIVS

1. Should have the capacity to support MIVS options like 23G , 25G and 27G
2. Should have a single entry system
3. Should have the additional stiffening feature for MIVS probes to make it sturdy

Integration with 3D visualization system

1. The system should be capable of integrating with 3D visualization system for easy operation

Other Features

1. The System should have the Vented Gas Forced Infusion Capability
2. The System should have the Automated Silicon Oil Injection Capability
3. The System should have Auto Fluid / Air Exchange
4. The System should have Auto Gas Fill (C3F8 and SF6) option
5. Should have the fully programmable footswitch with the facility to change procedural modes through footswitch.
6. Should have the facility of proportional diathermy.
7. Should have the capacity of Proportional Reflux
8. Should have the facility to digitally control the infusion pressure and the facility to toggle between a regular infusion pressure and an higher alternate pressure (to achieve tamponade effect) with the help of footswitch.
9. Should have the facility for the extrusion of sub-retinal fluid.

10. Should have the facility of voice re-confirmation
11. Should have programmability to store various parameters
12. Should have the facility to of Anterior Phacoemulsification, with 4 crystal Hand piece.
13. Should be able to do perform Phacoemulsification with Torsional amplitude
14. Should have the facility for Anterior Vented Gas forced infusion.
15. Should have the facility to use variety of Phaco tips like, Kelman, ABS and micro tips
16. Should have the facility to use High Infusion Sleeve
17. Should have the availability of Linear, Pulse, Burst in Phaco mode
18. Should have the Irrigation / Aspiration mode
19. Should have the facility of fragmentation with the help of 4 crystal Ultrasound hand piece.
20. Should have the ability to give an Inbuilt Video Help for setting up the accessories in the system.
21. **Standard & Safety Certification** : Valid CDSCO Certificate License for the manufacturer(s)
& Registration Certificate from CDSCO for the importer(s) as applicable

Physical demonstration will be held at any Govt. Health Institute (Kolkata only)
which will be intimated later.