



Notice Inviting e-Tender

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**Creation of Vitreo Retinal Surgery Set Up in Department of Ophthalmology of
I.P.G.M.E & R and S.S.K.M Hospital**

Bid Reference No.: WBMSCL/NIT-037/2023

Dated-31.01.2023

Amendment-I

REVISED TECHNICAL SPECIFICATIONS

Schedule-I **(Page No: 34)**

Technical Specifications for High end Vitrectomy system with Integrated Laser

1. Should have the facility to generate direct venturi vacuum of up to 650 mmHg through cassette system having 2 independent aspiration ports.
2. Should have the ability to drive vertical guillotine vitrectomy cutter to go up to 10,000 cuts / minute and to upgrade up to 20,000 cuts/min.
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.

6. Should have the capacity to monitor infusion pressure constantly.
7. Should have the capacity to compensate the infusion pressure constantly with results in a more stable IOP.
8. The system should have Two Xenon Illuminators with four ports . The System should recognize the gauge of illuminator connected and adjust the illumination accordingly.
9. The system should have the facility to monitor the bulb life, to avoid surprises.
- 10.The System should have RFID capacity, which recognizes the probe connected, and automatically loads the settings.
- 11.Should have the capacity to support MIVS options like 23 G, 25G and 27g.
- 12.The system should be capable of integrating with 3D visualization system for easy operation.
- 13.The System should have the Vented Gas Forced Infusion Capability.
- 14.The System should have the Automated Silicon Oil Injection Capability.
- 15.The System should have Auto Fluid / Air Exchange. NO stop-cock. The System should have Auto Gas Fill (C3F8 and SF6) option.
- 16.Should have the fully programmable footswitch with the facility to change procedural modes through foot-switch.
- 17.Should have the facility of proportional diathermy with regular-Fixed one for better control.
- 18.Should have the capacity of Proportional Reflux along with micro reflux
- 19.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.
- 20.Should have the facility for the extrusion of sub-retinal fluid.
- 21.Should have the facility of voice re-confirmation.
- 22.Should have programmability to store various parameters.
- 23.The system should have inbuilt green laser capability with dual ports.
- 24.The laser should have a multi-function foot switch with voice confirmation.
- 25.Should have the facility of fragmentation with the help of 4 crystal ultra sound Handpiece.
- 26.Should have the ability to give an in-built video help for setting up the accessories in the system.
- 27.Total Plus PAKS, containing Ultravit -cutter, endo-illuminator, Edge plus Trocar blades, infusion – air tubing should be supplied with the machine during delivery -6 numbers.

28. Certification: European CE(4 Digit notified body)/US FDA

Vitrectomy System (Mid High)

Technical Specification:-

1. The unit should be based on Peristaltic / Dual Pump (Peristaltic + Venturi) System.
2. System Should be with integrated Trolley with Locking Wheels

Anterior

1. The Phaco hand piece should have inside irrigation with Stroke length of 90 - 120mm
2. All original accessories like I/A cannula, Diathermy from manufacturer.
3. Machine should be compatible for 1.8 - 2.2 mm co-axial phaco surgery
4. The unit should have Continuous / Pulse/ Burst Mode
5. System should have Easy / Torsional / Any Advanced Technology.
6. The Phacoemulsification unit should have a Peristaltic / Venturi Pump Vacuum Range of 0 to 600 mmHg or More.
7. The Phacoemulsification unit should have a Flow Rate Range of 1-50 ml/min or more.
8. The unit should have a Autoclavable / Disposable Cassette system
9. The Phacoemulsification unit should have a fully Programmable Foot Pedal including the control of the V Pole.
10. The Phacoemulsification unit should have a 4- 6 Crystal, Titanium_Phaco Hand piece
11. System should have Phaco, Fragmentor, Vitrectomy, Diathermy, I/A Handpiece with Tip.

Posterior Vitrectomy:-

12. System should have ability to linearly control Vacuum / Flow rate and cut rate simultaneously in Vitrectomy mode.
13. System should have Surgeon controlled Duty Cycle / Continuous Flow cutter Technology for Efficient Vitrectomy.
14. System should have Pneumatic cutting Speed – maximum cut rate should be 10,000 cuts/min or above upto 20,000 cuts/min.
15. The Vitreo Retinal System should have Endo illuminator with Cool LED / Xenon illumination.
16. System should be compatible for 23G and 25G Surgeries.

17. The Vitreo Retinal System should have ability to automated control for Silicon oil injection.
18. Should have facility for the extrusion of Sub-retinal Fluid.
19. Should have programmable dual liner foot pedal.
20. Direct easy access control panel (Direct Access / Touch Screen).
21. System should be supplied with Online UPS.
22. Machine should remain operational (Uptime guarantee) for at least 90% of the working days. In case of delay, stand by support must be provided by the supplier for the interim period.
23. Laser system should be integrated/ incorporated with the system.
24. Certification: European CE(4 Digit notified body)/US FDA

Accessories Should be Supplied as below:

1. Fragmentom Hand piece with Tip - 1
2. Diathermy Hand piece with forcep - 1
3. Disposable Cassette of usable parameters - 10
4. key for phaco fragmentation - 1
5. Endo illuminator - 23G - 10
6. Endo illuminator - 25G - 10
7. Ultravit / Continuous Flow Cutter - 23 G - 10
8. Ultravit / Continuous Flow Cutter - 25 G - 10
9. Trocar Auto seal- 23 G- 10
10. Trocar Auto seal - 25 G- 10
11. Silicon Application Set - 10
12. Air delivery line-10
13. Endo Diathermy Tip - 23 G - 5
14. Endo Diathermy Tip - 25 G - 5
15. Soft Tip extrusion Canula 23 G - 10
16. Soft Tip extrusion Canula 25 G - 10
17. Membrane Peeling Forcep - 5
18. Air Compressor - 1
19. Laser probe (23G/25G)-5