



Notice Inviting e-Tender

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Procurement of different types of Medical Equipment for the Department of Ophthalmology,
Jalpaiguri Government Medical College & Hospital, Jalpaiguri

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-604/2026

Dated-03.07.2026

AMENDMENT- I

Revised Technical Specification

Schedule-I

Vitrectomy Machine for posterior segment surgery (High-end)

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/constant duty cycles 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 bevelled/equivalent 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/LED/SSI Illumination
2. The System should recognize the gauge of illuminator connected or by manual adjustment of illumination.
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/manually loads the settings

Laser

1. The System should have inbuilt green laser capability
2. The Green laser should have preferably 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/manually loads the settings.

MIVS

1. Should have the capacity to support MIVS options like 23 G , 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. Preferably the System should have Auto Fluid / Air Exchange
4. Preferably 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 foot switch
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 Handpiece.
13. Should be able to do perform Phacoemulsification with Torsional / longitudinal 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. Valid CDSCO Certificate License for the manufacturer(s) & Registration Certificate from CDSCO for the importer(s) as applicable

Schedule-II

Visual Field Analyzer

1. High quality Goldman standard automated full field Perimetry of International Standard with bowl size radius =30cm.
2. Computer & Monitor should be integrated in the perimeter (No external computer).
3. Stimulus size I, II, III, IV & V.
4. Halogen lamp projection system
5. Background illumination 31.5Asb.
6. Maximum temporal range 90Deg. Suitable for central 30, neurological tests as well as full field testing.
7. Central field test patterns 30-2, 24-2, 10-2, Macula
8. Peripheral field test pattern 60-4, Nasal Step, custom test.
9. **Threshold test strategies full threshold, SITA standard, SITA Fast, Full threshold, Fast Pack, SITA – SWAP/equivalent.**
10. Screening field test P-60, FF-80, FF-120, FF-240, Nasal Step for periphery
11. Screening test strategies Two zone, Three Zone and Quantify Defects.
12. Glaucoma hemi field test, Heijl - Krakau blind spot monitor
13. Video eye monitoring, Gaze Tracking monitoring system.
14. Vertex Monitoring and Head Tracking.
15. Touch screen on CRT Monitor, Keyboard & provision of external monitor & Keyboard.
16. Internal hard disk drive.
17. Stimulation duration 200ms, wavelength Broad band visible light
18. Stimulus/Background Colour White on White.
19. SWAP (Blue on Yellow) perimetry.
20. Auto Pupil Measurement
21. Kinetic testing & Custom Kinetic testing
22. Motorized chinrest, Motorized table, Laser Jet Printer
23. Glaucoma Progression Analysis (GPA) Software for Monitoring disease progression. With visit wise graph & Visual Field Index (VFI).
24. Rei Eye monitor.
25. Automated liquid Trial Lens (Auto TLC).
26. Valid CDSCO Certificate License for the manufacturer(s) & Registration Certificate from CDSCO for the importer(s) as applicable

Schedule-III

Spectral Domain 3D Optical Coherence Tomography

Type	Spectral Domain 3D OCT
Principle	Confocal Laser Scanning or IR based
Motion Artifact	Real time DUAL beam Eye-tracking to eliminate motion artifacts.
Optical Resolution	4 microns axially x 6 microns laterally - for OCT
Smallest measurable change	1 micron
Max A-Scan Rate	85,000/sec or more
Scan Depth	1.9mm
Section Scan Size	30° / 20° 115° (4.5 mm - 9mm) or more
Wide field OCT	Upgradable to 55 deg OCT
Focus Adjustment Range	-12 diopters to +12 diopters spherical with high myopia compensation software
Peripheral OCT	Should be included with EDI
Scan Patterns	Preset as well as User-defined, Circle and Volume scans
Pupil Diameter	Imaging/scan should be independent of pupil diameter
Separate EDI Mode/ Swept Source	Enhanced depth Imaging for deeper retinal layer scan (Choroid layer imaging) At any location of the 30 deg field
Fixation	External and Internal Fixation lights
Image Displays	OCT B Scan taken in acquisition mode - RNFL in gray scale and colour
	3 D View with cube, surface, single slice, grid, Y-Scale, movie options
	Thickness profile with automatic as well as manually adjustable segmentation line
	Thickness Maps with overlay in Fundus images
Transverse section	OCT should have transverse section facility
Progression	Should be possible to track by measuring the SAME section over a period of time. Comparisons of 2 or more scans within a progression series, automatic registration.
Automatic Segmentation of All retinal Layers	The machine should have facility of Automatic Segmentation of All retinal Layers
Thickness map of each layers	The machine should have facility of to show Thickness map of each layers
	The machine should have facility of to show separate Thickness map of GCL
Image rotation	180°

Built-in Reports	Patient Information, Diagnosis and comments
	Single visit reports with single CT B scans
	Follow up reports showing progression and Retinal Thickness Change Analysis
	Thickness Map Reports
	3 D View Report
	RNFL Report
3D imaging of Retina and Optic Nerve head	The machine should have display of actual 3D imaging of Retina and Optic Nerve head (through Red-Green Spectacles)
Asymmetry Analysis for Glaucoma	Combined RNFL and Asymmetry Analysis Report. Single Eye and Both Eyes Asymmetry Analysis Report
ONH- Analysis	BMO-ILM Analysis for Glaucoma - UPGRADABLE
Anterior Segment OCT	The machine should have option to upgrade with Anterior Segment OCT for Cornea, Sclera and Angles (single and Both the angles in same image)
OCT Angio	The system should have OCT Angio
Axial Resolution for Angio OCT	4 micron/pixel or less
Lateral Resolution for Angio OCT	6 micron/pixel or less
Layers segmentation for OCT Angio	Auto and manual both should be possible
Field of view for OCT Angio	10x10 deg, 15x15 deg, 20x20 deg and 15x30 deg or more
Fusion Image	It should give fusion image for ideal correlation between flow (in coloured) and retinal structure.
Certification	Valid CDSCO Certificate License for the manufacturer(s) & Registration Certificate from CDSCO for the importer(s) as applicable.