



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 IV (pg 39)

**Technical Specification of Confocal Laser Spectral domain
OCT Angio**

Type	Spectral Domain3D OCT
Principle	Confocal Laser Scanning
Motion Artifact	Realtime 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	1.9 mm
Section Scan Size	30° / 20° / 15° (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 OCT 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	European CE(4 Digit notified body)/US FDA