



Notice Inviting e-Tender

West Bengal Medical Services Corporation Limited
Swasthya Sathi
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Kolkata-700091

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Supply and Commissioning of different types of Medical Equipment for Regional Institute of Ophthalmology Medical College and Hospital Kolkata

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-746/2024

Dated-18.12.2024

3rd call for Schedule II of Bid Reference Number WBMSCL/NIT-148/2024 Date 28.02.2024

Schedule I

Corneal Topography with wave-front analysis, anterior segment OCT with swept-source based optical biometry

Amendment-I

TECHNICAL SPECIFICATION

The Machine should have Corneal Module, Cataract Module, Imaging Module & Metrics Module integrated in single Platform.	
Type of Scan	Swept Source OCT

Central Wave Length	1300nm
Eye Tracking	Eye-tracking should be centered on Corneal Vertex
Lateral Resolution	Should be 45 microns or less
Axial Resolution	Should be 10 micron or less
Max A-Scan Rate	50000 A Scan/sec
Scan Depth	14 mm
Topographic Data	8mm
Scan Patterns	Preset as well as User-defined, Circle and Volume scans
CORNEAL	
Corneal scan	SS OCT Based
Resolution in tissue	< 10µm axially X 45µm Laterally.
Image Size	11 ± 1mm axially X 9mm laterally
Scan Pattern	Radial
Number of B Scan	65
Number of A Scan Per B Scan	256
Views Modes	Single Eye ,OD / OS, Multi View
Images	IR Images & OCT Section Images
Color Map 8 mm Zone	Anterior& Posterior Axial Curvature
	Anterior & Posterior Tangential Curvature
	Anterior& Posterior Elevation (BFS
	Anterior& Posterior Elevation (BFT)
	Pachymetry
	Total Corneal Power
	Anterior Corneal Wave Front
	Total Corneal Wave Front
	P/A Ratio
Epithelial Thickness map	Machine should have Epithelial Thickness map
Corneal Ectasia Analysis	Machine should have separate Corneal Ectasia Analysis
Follow up	Should have follow up maps,
Parameters	
Anterior Axial Curvature	2-8 mm
Radius of Anterior Cornea BFS	8 mm Zone
Posterior axial curvature values of	2-8 mm
Radius of Posterior Cornea	8mm Zone
Total Corneal Power values for zones & Rings	2-8 mm
Anterior Corneal / Total Corneal wave-front	Up to 7 th Zernike order different Zone
CATARACT	
Resolution in tissue	< 10µm axially X 30µm Laterally.
Image Size	14 ± 0.5mm axially X 16.5 mm laterally
Scan Pattern	Line
Number of B Scan	1 (Avg)

Number of A Scan Per B Scan	768
Axial Length	14-32 mm
	Calculation OU with Spherical & Toric Calculator
Images	IR Images & OCT Section Images
Color Map	Anterior Axial Curvature & Total Corneal Power
Parameters	
Anterior Axial Curvature	3mm Ring
Posterior Cornea	3mm Ring
Total Cornea Astigmatism	3mm Ring
Total Corneal Wave-front	Spherical and RMS higher order aberration 3mm Zone, Pupil centered
Should have First Axial Length Measurement & Second Axial Length Measurement to ensure quality and accuracy for all eye axial lengths	
Formulae (Std.)	SRK /T, Holladay 1, Hoffer Q
Premium Formulae	Barrett Universal II , Barrett True K & Barrett Toric
Ray Trace Formulae	OKULIX
METRICS	
Resolution in tissue	< 10µm axially X 30µm Laterally.
Image Size	14 ± 0.5mm axially X 16.5 mm laterally
Scan Pattern	Radial
Number of B Scan	6 (Avg)
Number of A Scan Per B Scan	768
Views	Single OD / OS & Multi
Images	IR Images & OCT Section Images
Parameters	
It should have Aqueous Depth, Lens thickness, Anterior Chamber Volume, Spur to Spur Distance, Angle to angle Distance, lens Vault, Pupil Diameter	
Anterior Chamber angle	ACA 500 & ACA 750
Scleral Spur Angle	SSA 500 & SSA750
Angle Opening Distance	AOD 500 & AOD 750
Trabecular iris Area	TISA 500 & TISA 750
IMAGING MODULE	
Resolution in tissue	< 10µm axially X 30µm Laterally.
Image Size	14 ± 0.5mm axially X 16.5 mm laterally
Scan Pattern	Should have Line, Volume, Arc & Radial Scan Pattern
Number of B Scan	6 (Avg)
Number of A Scan Per B Scan	User Define
Views	Single OD / OS & Multi
Quality Certificate	CDSCO