

**GOVERNMENT OF ASSAM
OFFICE OF THE DIRECTORATE OF MEDICAL EDUCATION, ASSAM
SIX MILE, KHANAPARA, GUWAHATI-22**

Corrigendum-1

In reference to the IFB no: AHIDMS/JICA/p&c/equipment/ophthal/2026/02 invited for Supply, installation and commissioning of ophthalmology equipment's for GMCH in Assam under JICA funded project under Assam Health System Strengthening Project (AHSSP) certain amendments, have been incorporated in the IFB document.

VITRECTOMY MACHINE	
Existing	Corrigendum
Fluidics	
Machine having dual peristaltic and direct Venturi Pump.	System have the facility to generate direct venturi vacuum of upto 650mmHg through cassette system having 2 independent aspiration ports.
Machine should have independent pumps for Aspiration and Irrigation	
Should have the capacity to maintain the set IOP by compensating for flow and leakage losses through Intelligent Fluidics.	
Should have intelligent aspiration system.	
Should be able to do perform Phacoemulsification with IOP control from 20mmhg to 120 mmhg	
Added	IOP Control
Added	Should have the capacity to monitor infusion pressure constantly
Added	Should have the capacity to compensate the infusion pressure constantly with results in a more stable OP
CUTTER	
Should have the ability to drive dual blade vitrectomy cutter to go up to 30,000 cuts / minute.	Should have the ability to drive vertical guillotine vitrectomy cutter to go up to 10,000 cuts / minute.
Should have a single push Pneumatic connector	Machine should be on a upgradeable platform with the capability to drive up to 20000 cpm in future
Should have capacity to drive 25G and 27G cutter	Should have the 3-D technology to linearly control vacuum and cut-rate simultaneously in vitrectomy mode
Should have 27g cutter with dynamic stiffener.	Should have the facility to allow surgeon to select from 3 different duty cycle options at any given cut rate
The 10K & 20K & 30K cutter should have the beveled probe design with dual pneumatic drive.	The 20K cutter should have the beveled probe design
Illumination.	

The system should have RGB light source.	The System should recognize the gauge of illuminator connected and adjust the illumination accordingly
System should have custom color capability.	The system should have the facility to monitor the bulb life, to avoid surprises
System should have Light Sentry option.	The System should have RFID capacity, which recognizes the probe connected, and automatically loads the settings
System should have 3 independent light ports.	The system should have Four port Xenon/SSI Illumination
• Laser	
Added	The System should have inbuilt green laser capability
The Green Laser should have dual Multi spot illuminated Laser probe.	The Green Laser should have dual port option
Added	The System should have Voice Confirmation
Added	The System should have RFID capacity, which recognizes the probe connected, and automatically loads the settings.
Should have independent Multifunction laser footswitch	Should have Multifunction Foot Pedal
MIVS	
Should have the capacity to support MIVS options like 25G and 27G	Should have the capacity to support MIVS options like 23G, 25G and 27G
Added	Should have a single-entry system
Added	Should have the additional stiffening feature for MIVS probes to make it sturdy
Added	• Integration:
Added	The system should be capable of integrating with 3D visualization system for easy operation
• Other Features	
The System should have Auto Gas Fill (C3F8 and SF6) option	The System should have Auto Gas Fill (C3F8 and SF6) option
Added	The System should have the Vented Gas Forced Infusion Capability
Added	Should have the facility for the extrusion of sub-retinal fluid.
Added	Should have the facility to of Anterior Phacoemulsification, with 4 crystal Hand piece.
Added	Should be able to do perform Phacoemulsification with Torsional amplitude
Added	Should have the ability to give an Inbuilt Video Help for setting up the accessories in the system.
Added	Should have the facility of fragmentation with the help of 4 Crystal Ultrasound hand

	piece.
Added	Should have the facility for Anterior Vented Gas forced infusion.
Added	Should have the facility to use variety of Phaco tips like, Kelman, ABS and micro tips
Added	Should have the facility to use High Infusion Sleeve
Added	Should have the availability of Linear, Pulse, Burst in Phaco mode
Added	Should have the Irrigation / Aspiration mode
Added	The System should have the Automated Silicon Oil Injection Capability
System should support 27G silicon Oil injection.	Delete
Should have universal canula fits in all gauge cannulas.	Delete
Should have the fully programmable wireless footswitch 6 button with integrated Laser option.	Should have the fully programmable footswitch with the facility to change procedural modes through footswitch.
Should have the capacity of Proportional Reflux, Micro reflux and continuous reflux.	Should have the capacity of Proportional Reflux
Added:	Should have the facility to digitally control the infusion pressure and the facility to toggle between a regular infusion pressure and a higher alternate pressure (to achieve tamponade effect) with the help of footswitch.
Added:	The System should have Auto Fluid / Air Exchange
Added:	Should have the facility of proportional diathermy.
Added:	Should have the facility of voice re-confirmation.
Added:	Should have programmability to store various parameters.
· Certification	
Added	Standard & Safety Certification: Valid CDSCO Certificate License for the manufacturers) & Registration Certificate from CDSCO for the importers) as applicable
Added	Physical demonstration will be held at any Govt. Health Institute (Kolkata only) which will be intimated later.

Anterior Segment Tomography machine	
Existing	Corrigendum
Adding the Pentacam-AXL position0073 the institute as a tertiary centre of excellence for:	Adding the Anterior Segment Tomography Positions the institute as a tertiary centre of excellence for:

Corneal Surgery Instruments sets:	
Existing	Corrigendum
Added-	Instruments shall be made of medical-grade Titanium Metal
Added: Certification	USFDA/EU-CE(4 digit notified)/BIS

Corneal Biomechanical Analyzer:			
Existing			Corrigendum
Category	Specification / Feature	Details	Specification / Feature
Device Type	Non-contact tonometer + corneal biomechanical analyzer	Uses air-puff induced corneal deformation with high-speed Scheimpflug imaging	Corneal biomechanical analyzer

Specular Microscope:			
Existing			Corrigendum
Category	Specification / Feature	Details	Specification / Feature
Pachymetry	Corneal thickness	Central corneal thickness (CCT), range 300–1000 μm , accuracy $\pm 10 \mu\text{m}$	Central corneal thickness (CCT), range 400–750 μm , accuracy $\pm 10 \mu\text{m}$ or more and better
Compact, fast, and clinically versatile for pre/post-surgical and graft evaluations.			Compact, fast, and clinically versatile for pre/post-surgical evaluations.

Optical Biometry Machine:			
Existing			Corrigendum
Category	Parameter / Feature	Specification / Value	Parameter / Feature
Measurement Precision / Scaling	Axial length	0.01 mm	Axial length-0.01mm to 0.03mm

PHOTO SLIT LAMP	
Existing	Corrigendum
6. Slit width range 0 to 14 mm and length 1mm to 14 mm, Aperture diameter-14mm, 10mm,5mm,2mm,1mm,0.2mm.	The system shall provide variable slit width (0–12 mm or wider) and slit length up to 12 mm or longer. It should have multiple selectable aperture sizes, including small-diameter apertures for high-resolution anterior segment imaging and documentation.
10. The System should have an integrated camera with high resolution, software	The System should have an integrated camera 5mp or more with high resolution, software

12. The computer system should have above 15 processor, S10/11, Printer	The computer system should have above i5 processor, Photo or laser Printer
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OCT Machine with Angiography	
Existing	Corrigendum
· Principle - Confocal Laser Scanning	Principle-Confocal Laser Scanning Or SLD OCT
Smallest measurable change - 2-micron max.	Axial resolution $\leq$ 5 microns.
• Max A-Scan Rate - 80,000/ sec to 125,000/sec or more.	A-scan rate $\geq$ 70,000 scans/sec.
• Scan Depth - Range 1.8mm to 2.5mm.	Imaging depth $\geq$ 2.0 mm.
· Section Scan Size - 4.5mm - 9mm or more.	Section scan size 3.00mm-9mm or more.
· Wide field OCT - Should have facility of taking scans from 30 to 55 Deg	Wide field OCT - Should have facility of taking scans from 30 to 55 Deg or more
· Peripheral OCT - Should have facility to do peripheral OCT with facility of depth image scans of vitreous and choroid.	Peripheral OCT Should have facility to do peripheral OCT Angio with facility of depth image scans of vitreous and choroid.
· Peripheral OCTA - Should have the facility to do peripheral OCTA.	Wide-field OCTA up to at least 12×12 mm with montage capability.
· Scan Patterns - Preset as well as User-defined, Circle and Volume scans.	Cube scan (Macula and Optic Disc)
· Separate EDI Mode/ Choroidal imaging Mode - Enhanced depth Imaging retinal layer scan (Choroid layer imaging).	HD Raster (1, 5, 21-line, cross and radial); Raster scan length* 3-12 mm;
· At any location of the 30 deg field.	image averaging up to 100×
· Fixation - External and Internal Fixation lights.	3×3, 6×6, 8×8, 12×12 mm (Macula); 4.5×4.5 mm (Optic Nerve Head)
· Thickness profile with automatic as well as manually adjustable segment.	Automatic segmentation with review and correction tools.
· Thickness map of each layers - The machine should have facility of to show map of each layers.	Thickness map of Clinically Relevant Layers - The machine should have facility to show map of Clinically Relevant layers.
The machine should have the facility to upgrade to Anterior	Machine Must have Full clinically relevant Anterior Segment imaging facility
Axial Resolution for Angio OCT - 4 micron/pixel or less.	Axial resolution $\leq$ 5 microns for OCTA.
Lateral Resolution for Angio OCT - 6 micron/pixel or less.	Lateral resolution 15-20um sufficient for capillary-level vascular visualization
Added:	ANTERIOR SEGMENT (High Definition)
Added:	9 mm Epithelial Thickness and Pachymetry Mapping, HD Cornea with Cornea Caliper Tool, Chamber View Full Anterior Chamber Imaging for phakic IOL sizing and safety distance measurements, Angle imaging and measurement tools for Glaucoma (AOD, TISA, SSA)
Added:	Auto fovea finder, auto Disc center for Glaucoma. Single eye combined report of Macular thickness and RNFL thickness. Combination report of RNFL and Ganglion cell deviation maps.
Added:	Angio OCT ANALYSIS

Added:	• Macular: Foveal Avascular Zone, Perfusion Density (ETDRS grid), Vessel Density (ETDRS grid)
Added:	• Optic Nerve Head: Capillary Perfusion Density, Capillary Flux Index
Added:	• AngioPlex 2-visit comparison

Operating Microscope with Assistant Scope	
Existing	Corrigendum
Binocular tube: Inverter tube Electric it should have provision for automatic image	Binocular tube: Inverter tube Electric it should have provision for automatic image. It must be Tilttable binocular tube with integrated automatic image inverter in VR/ Cataract surgery, interpupillary distance adjustable from 55mm to 75mm
· Camera- 3 chip full-HD camera (integrated) with integrated full HD recording. Ex..... and record not acceptable.	Camera-3 chip full-HD camera (integrated) with integrated full HD recording. Camera should be integrated in the microscope body without any external attachment C mount & cables. Camera controls unit should be integrated in the stand, Camera software should be integrated with microscope software.
Integrated assistant scope with independent focus and zoom.	Integrated assistant scope with independent focus and zoom and with Inclinal Binocular tube with Automatic integrated image inverter for Cataract & VR surgery.
Viewing System - Zeiss Resight 500 / Oculus BIOM with SDI's macular and wide held lenses. Quantity-2)	Delete
Added:	Stereo coaxial illumination for both main surgeons. & Assistant microscope for constant brilliance and brightness, red reflex illumination and surrounding field illumination both are adjustable.
Added:	Integrated keratoscope ring to Visualize corneal curvature without interrupting the surgery
Added:	The configurable function switches on the handgrips of the microscope to provide surgeons with direct control over key, user-programmable settings—such as zoom, focus, and XY coupling—without releasing the microscope

All other terms and conditions of the Bid Document shall remain unchanged.

Sd/-
Director of Medical Education, Assam