



Notice Inviting e-Tender

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Supply and Commissioning of Ophthalmic Ultrasound A-Scan, B-Scan and Pachymeter for Dept. of Ophthalmology at Malda Medical College and Hospital

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-294/2025

Dated-16.04.2025

2nd call of Bid Reference Number WBMSCL/NIT-185/2025 Date-05.03.2025

Amendment I

Revised Technical Specification

Ophthalmic Ultrasound A-Scan, B-Scan and Pachymeter

- Should be a compact, portable, upgradable and customizable Ophthalmic Ultrasound A-Scan Biometer, B-Scan and Pachymetry

A-Scan Mode:

- Biometry Probe Transducer Frequency : 10 -11 MHz;
- Tip Diameter : 7 mm;
- Electronic resolution : 0.03 mm
- Depth : 60 mm
- Technique : Should have both Contact & Immersion Mode;
- Aiming Beam : Red LED;
- Six IOL Calculation Formulae :SRK-T, SRK-II, HOLLADAY, BINKHORST-II, HOFFER-Q, HAIGIS;

- Six Post-op Refractive Formulae : History Derived, Refraction Derived, Rosa Regression, Shammas Regression, Double K/SRK-T;
- Should give very accurate & repeatable axial length and IOL power distribution

B-Scan Mode:

- B-Scan Probe Transducer Frequency : 12 - 15 MHz;
- Grey Levels : 256
- Adjustable Gain : 20 to 110 dB;
- Dynamic range adjustment : 25 to 90dB;
- Angle of Exploration : 50°;
- Depth of Exploration : 60 mm (2.36")
- focus : 24 mm (0.94")
- Axial Resolution : 115 µm;
- Lateral Resolution : 400 µm;
- Frame rate acquisition : up to 16 Hz;
- Should have simultaneous B-Scan and A-Scan cross vector with value;
- Should be able to do automatic axial length measurement & IOL power calculation using B-Scan Probe for injured eyes;
- Should have high image resolution;
- Should have vibrations free B-Scan Probe;

Pachymetry Mode :

- Pachymetry Probe Transducer Frequency : 20 MHz;
- IOP compensation factor should be auto calculated.
- Should give CCT with Mapping/ Radial reading.

Data Management:

- Should have built in Physician and patient database
- Should have exploration of still image and video sequences;
- Should have customizable digital and printed reports;
- Should have DICOM compatible (Worklist, Storage & Printout);;
- Should have ERM compatible;
- Should have compatible with any window printer;
- Should have LED colour touch screen with minimum resolution of 1024 x 708;
- Should have Mouse and Foot Switch as control device;
- Should have compatible with Bluetooth and Wi-Fi;
- Should have multiple (Minimum 4) USB and Ethernet port;
- Operating voltage 100-240 VAC.

- **Standard & Safety Certification** : Valid CDSCO Certificate License for the manufacturer(s) & Registration Certificate from CDSCO for the importer(s) as applicable