



**Bihar Medical Services & Infrastructure Corporation
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Corrigendum-II

Bihar Medical Services and Infrastructure Corporation Limited (BMSICL) had invited E-Bids from the interested parties for Procurement, Rate contract, Supply, Installation of Medical Equipment vide Tender No.-BMSICL/2023-24/ME-304. During Pre-bid meeting various suggestions were received from different prospective bidders regarding amendment in technical specification of equipment which were discussed and deliberated on by the experts. On the basis of their recommendations certain amendments in the technical specification of the equipment have been made which are annexed as **Annexure-I** of this corrigendum. Rest of the terms and conditions of the NIT shall remain unchanged.

**SD/-
GM (Procurement)
BMSICL**

Annexure-I

Microscope For Ophthalmic O.T		
Sl. No	Technical Specification as per tender	Final Amendment
1	Should have apochromatic optics.	No Change
2	Should have motorized zoom system with factors 0.4 to 2.4, zoom ratio 1:5 or more.	No Change
3	Should have working distance of objective lens of focal length F = 200mm.	No Change
4	Eye piece should be minimum 12.5x or 16x wide field.	Eye piece should be minimum 12.5x or 10x wide field
5	Should have XY coupling & Adjustment range 50mm x 50mm or more.	No Change
6	Should have cold light Halogen /LED coaxial illumination by fiber optic light guide.	Should have cold light Halogen by fiber optic light guide /LED coaxial illumination
7	Should have Lamp intensity adjustable, Retinal protection filter, Enhancement of depth of focus.	No Change
8	Should be floor standing type with fiber wheels with brake.	No Change
9	Attachments Camera with suitable recording system and monitor video & observer Scope.	No Change
10	US FDA/ European CE approved model should be offered.	US FDA/ European CE (Issued by Notified) approved model should be offered.
11	Power Supply 220VAC +/- 10 %, 50Hz.	No Change
12	Online UPS of suitable rating with voltage regulation, spike protection and maintenance free batteries for 60 minutes back up.	Online UPS of suitable rating with voltage regulation, spike protection and maintenance free batteries for 15 minutes back up.
Slit Lamp with Aplanation Tonometer		
Sl. No	Technical Specification as per tender	Final Amendment
1	Should have illumination from top using LED unit capable of giving illumination intensity up to 60,000 Lux.	No Change
2	Magnification having continuous zoom stepwise with steps at 6, 10, 16, 25, 40 X	magnification having stepwise with steps at 6, 10, 16, 25, 40
3	Slit length 0.2 to 8mm.	Slit length 0.2 to 8mm, ±1
4	Eyepieces of 12.5X.	No Change
5	Facility to tilt the slit image up to 20° should be available	No Change

6	Should have aplanation tonometer mountable with same slit lamp having USFDA/CE certifications.	No Change
7	Should have the facility for stereoscopic examination of fundus where in Angle on stereoscopic observation can be reduced from 13 ⁰ to 4.5 ⁰ to have better view of eyes with small pupil or high myopia.	No Change
8	Facility for viewing into the microscopic at 20 ⁰ to horizontal to enable the examiner to keep his head in fatigue free position	No Change
9	Slit lamp should be mounted on motorized table.	No Change
10	US FDA/ European CE approved model should be offered.	US FDA/ European CE (Issued by Notified) approved model should be offered.
11	Power Supply 220VAC +/- 10 %, 50Hz.	No Change
12	Online UPS of suitable rating with voltage regulation, spike protection and maintenance free batteries for 15 minutes back up	No Change
13	Illumination control should be on base of Slit for easy operation	No Change

OCT Machine

Sl. No	Technical Specification as per tender	Final Amendment
1	High-definition OCT scans provide precise detail of retinal tissue and pathology.	No Change
2	3 D view should be there.	No Change
3	Detailed thickness maps for monitoring disease progression or regression.	No Change
4	Motorized chin rest and alignment of patient image registration for precise rescanning.	No Change
5	Normative database for Macular thickness and RNFL, Multi Ethnicity with preferably Indian/Asian Normative database	Normative database for Macular thickness and RNFL, Multi Ethnicity
6	Macular and RNFL Thickness analysis Macular change analysis. Guided progression analysis	No Change
7	Type of scans: Macular scan, Optic disk scan, High-definition scan.	No Change
8	Scan speed: 50,000 A-scans per second or more	No Change
9	No of A Scans X B scans: 512 A scans x 128 B scans, 200 A scans x 200 B scans or more.	No Change
10	Resolution: Axial resolution 5 um (in tissue) or better	Resolution: Axial resolution 4 um (in tissue) or less.
11	Transverse resolution: 20um (in tissue) or better	No Change
12	A-scan depth: 2.0mm (in tissue) 1000 data points or better.	A-scan depth: 1.8mm (in tissue) 1000 data points or better.

13	Fundus Imaging: Live during scanning through Line Scanning Ophthalmoscope (LSO) or Scanning Laser Ophthalmoscope or through any better technology.	Fundus Imaging: Live Fundus during alignment/scanning and OCT capturing or both through confocal Scanning Laser Ophthalmoscope (cSLO) or Line Scanning Ophthalmoscope (LSO) or Scanning Laser Ophthalmoscope or through any better technology
14	Field of view: 36 degrees x 22 degrees or more	No Change
15	Optical source: Super luminescent diode (SLD), 840nm or More	No Change
16	Focus Adjustment Range: -20D to + 20D (diopters) or more.	No Change
17	Fixation: Internal and external	No Change
18	Pupil Size Requirement: 2.5 - 3.5mm or smaller	No Change
19	Should be integrated computer, CD-RW/DVD-ROM, Drive/USB, Medical Grade Monitor, OS, Di-com (Optional) Compatible & Photo quality Colour Laser Printer.	Should be integrated/External computer, CE-RW/DVD-ROM/Drive/USB, Medical Grade Monitor, OS, DI-com (Optional) Compatible & Photo quality color Laser Printer.
20	Internal storage 80,000 scans or more.	No Change
21	Accessories: Motorized Table to be provided which can be easily adjustable for height with a hand controlled button provided on the table body itself. Table should be wide enough to accommodate the entire system including computer, printer and other accessories. If necessary separate table to be provided for Computer and other accessories.	No Change
22	Power supply to be 220-240VAC, 50Hz fitted with Indian plug.	No Change
23	Suitable UPS with maintenance free batteries & Back up time 30 minutes.	No Change
24	US FDA /European CE from notified body	No Change
25	Follow up scan.	No Change
26	Progression report for glaucoma.	No Change
27	Montage image of fundus photo.	No Change
28	IR tracking system.	No Change
29	Anterior segment OCT.	No Change
Added Point		System Should have OCT with OCT Angiography (OCTA) Module

A-Scan		
SI. No	Technical Specification as per tender	Final Amendment
1	Should have easy readable LCD display	No Change
2	Should have adjustable gain control	No Change
3	Should have a probe frequency of 10 MHz with internal fixation light	Should have a probe frequency of 10 MHz or more with internal fixation light
4	Should use immersion & contact measurement technique	No Change
5	Should have automatic, manual, PMMA, Silicone, Acrylic, Acrylic, capture modes	Should have automatic, manual, PMMA, Silicone, Acrylic,
6	Should provide IOL formulas such as Holladay I, Hoffer Q, SRK/T, Haigis etc. and post refractive formulas like Shammas etc.	No Change
7	Should have a measurement range of 0.01 to 60mm.	Should have a measurement range of range of 14 to 45 mm or More
8	Should measure Anterior Chamber Depth, VCD, Lens thickness and axial length.	No Change
9	Should have inbuilt thermal printer / external printer through USB	No Change
10	Should provide footswitch, immersion cup, carry case and probe hold	Should provide footswitch, immersion cup, carry case and probe holder.
11	Should have Should have RS232/LAN/USB	No Change
12	Should operate from 200 to 240V / 50 Hz power supply	No Change
13	Certification- USFDA/European CE from notified body	No Change
B-Scan		
SI. No	Technical Specification as per tender	Final Amendment
1	Probe 10 MHz. MHz, Focused Transducer, 30 Frames/Sec. and Orbit Mode	B-Scan Probe frequency 10 MHz or More Focused Transducer, 16-30 Frames/Sec. and Orbit View
2	Measurements: Distance and area	No Change
3	Amplifier 100 dB Gain with Gain and TVG controls	Amplifier range of 20-110 dB Gain with Adjustable Gain,
4	Freeze Foot pedal	No Change
5	Image B-Scan with simultaneous selectable Vector A-Scan	No Change
6	Display 60 deg. Sector fan, Gray scale, B/A presentation (B emphasized)	Display 50 to 60 deg. Sector fan, Gray scale, B/A presentation (B emphasized)

7	Voltage /Hz: 100/120/220/240 Volts and 50 Hz or 60 Hz auto sensed by input voltage.	No Change
8	Printer facility.	No Change
9	Date/Time: Built in clock calendar.	No Change
10	Data Entry: Full alpha numeric.	No Change
11	Certification- USFDA/European CE from notified body	US FDA /European CE from notified body/ISO 13485 and ICMED.