



**Bihar Medical Services & Infrastructure Corporation
Limited 2nd & 3rd Floor, Swasthya Bhawan, Behind IGIMS,
Sheikhpura, Adjacent to State Health Society, Patna-
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Corrigendum-I

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/2024-25/ME-392. 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. In order to facilitate maximum participation of bidders tender schedule is being revised as following:-

Tender Reference No.	BMSICL/2024-25/ME-392
Last date and time of submission of online bids	21st January 2025 till 17:00 Hrs.
Last date and time of submission of original documents of EMD, Tender Fee and Document.	22nd January 2025 till 14:00 Hrs.
Date, Time and Place of opening of Technical Bid	22nd January 2025 (at 15:00 Hrs.) on the website of https://eproc2.bihar.gov in the office of BMSICL
Date and time of opening of financial Bids	To be announced later on https://eproc2.bihar.gov

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

Annexure-I

Name of Equipment:-Schiotz Tonometer		
Sl. No	Technical Specification as per tender	Final Amendment
1	Should use high quality agate bearing for long life	No Change
2	Should have a scale of 0 to 20 subdivisions and 0 to -1 sub division	No Change
3	Should have red pointer for perfect reading	No Change
4	All vital parts should be made of stainless steel and other parts should be chrome plated	No Change
5	Should be provided with carrying case	No Change
6	Should be supplied with three weights (5.5 g, 7.5g, 10g) and a conversion table	No Change
7	Control should be visible and clearly defined 8. Labels and markings should be clear and visible.	No Change
8	System should have US FDA/ EUCE (Issued by notified body)	No Change
9	Should be supply with Motorised Surgen Chair with Support to backrest	Deleted
Name of Equipment:- Gonio Lens		
Sl. No	Technical Specification as per tender	Final Amendment
	Should supply following lens set	No Change
1	4 Mirror Gonio lens Sussman	No Change
2	USFDA/European CE (Issued by Notified body) approved model should be offered.	No Change
Name of Equipment:- Digital Vision Chart		
Sl. No	Technical Specification as per tender	Final Amendment
a	Should have LCD/LED monitor of 18 inches or higher which is remote operated	No Change
b	Should have the following charts: Snellen charts, Log Mar chart, Numeric, Alphabets, Dot chart, Contrast sensitivity, Paediatric chart, Masking test, ETDRS contrast Ishihara colour test, Cartoon charts, Red Green or duro chrome, Peripheral acuity, English, Hindi, Regional language.	No Change
c.	Should have an available distance of 6 feet, 8 feet, 12 feet, 15 feet and 20 feet	No Change
d.	Should have eye Educational charts about Lasik, Cataract, Retina, Cornea, Contact lens.	No Change

e.	Should operate from 200 to 240v, 50 Hz power supply.	No Change
f.	USFDA/European CE (Issued by Notified body) /BIS/ ISO 13485 certification for quality standards. (Certificate issued from certification bodies accredited by NABCB/ Nationally Recognized Accreditation Board under IAF MLA”.	No Change
Name of Equipment:-Near Vision Chart		
Sl. No	Technical Specification as per tender	Final Amendment
a	Animal Picture Chart for per-verbal children.	No Change
b	Self illuminated.	No Change
c.	English, Hindi,Regional language	No Change
d.	Illiterate E and C Chart, Pediatric chart , Number chart	No Change
e.	Plates made from high quality non reflective plastic	No Change
Name of Equipment:- 5. Applanation Tonometer		
Sl. No	Technical Specification as per tender	Final Amendment
1	Range of Measurement 0-80 mmHg	No Change
2	Movement of Light Circle $1.53 \times 2 = 3.06\text{mm}$	No Change
3	Prism Diameter 7mm	No Change
4	Prism Range of Movement 3mm	No Change
5	Should be compatible with Haagstreit models of slit lamps.	No Change
6	Accessories, (mandatory, standard, optional); Spare parts (main ones); Consumables/reagents (open, closed system) -1. Calibration Bar, 2. Prism 3. Tonometer Mount base to fix with optics.	No Change
7	Certificates and safety standards	No Change
8	Should be US FDA/European CE (Issued by Notified body)	No Change
Name of Equipment:- Trial lens set with trial frame Adult & Child		
Sl. No	Technical Specification as per tender	Final Amendment
1	The lenses should be of 20 mm aperture fitted in aluminum mount of 38 mm diameter, anodized red/gold for negative power and black/silver for positive power.	No Change
2	The Sphere lenses with handle and cylinder without handle.	No Change
3	The trial lenses should be good quality, the case made of melamine poised wood, sturdy and attractive finish.	No Change
4	Lenses - + and -Cylinder + and -.	No Change
a.	0.25 to 4.0 in 0.25 steps Spheres	No Change
b.	4.5 to 6.0 in 0.5 steps Spheres	No Change
c.	7.0 to 14.0 in 1.0 steps Spheres	No Change
d.	16.0 to 20.0 in 2.0 steps Spheres	No Change

e.	0.25 to 3.5 in 0.25 steps Cylinder	No Change
f.	4.0 to 6.0 in 0.5 steps Cylinder	No Change
g.	Prisms 1/2, 1, 2,3,4,5,6,8,10,12.	No Change
5	Supplied in protective case for clean storage and safe transport.	No Change
6	Accessory	No Change
a.	Red Glass and Green Glass	No Change
b.	pin hole	No Change
c.	Slit	No Change
d.	Two back discs	No Change
e.	Cross Cylinder +/- 0.25 and +/- 0.5	No Change
7	Manufacturer should have ISO 13485 certification for quality standards.	No Change
	TRIAL FRAME SET (ADULT AND CHILD)	No Change
1	Horizontal and Vertical bridge adjustment.	No Change
2	Adjustable Saddle Bridge.	No Change
3	Separate PD adjustment for each eye to compensate for asymmetrical factors in facial structure.	No Change
4	Individual adjustment for length and angle.	No Change
5	Adjustment for rotating cylinders to correct the axis.	No Change
6	Scale with large easy to read numerals.	No Change
7	The space for lens holder ensures accurate additive reading.	No Change
8	PD scale: 24 - 38 mm for both right and left.	No Change
9	Nose height adjustments: Movable up to 14.5 mm.	No Change
10	Temple length adjustment sit can be sided up to 37 mm (Approx.)	No Change
11	Supplied in protective case for clean storage and safe transport.	No Change
12	Manufacturer should have ISO 13485 (NABCB Accredited)	No Change
Name of Equipment:-Flash Autoclave		
Sl. No	Technical Specification as per tender	Final Amendment
1	Should be a class B table top autoclave for Dental and ophthalmic applications	No Change
2	Two automatic programmes approx. at 2.2 bar at 134 degrees C and 1.1 bar at 121-degree C. The equipment should have automatic pressure control switch / automatic water control device to ensure that the equipment does not run dry.	No Change
3	Should have flash cycle for rapid sterilization and should have an option for liquid /Customize cycle.	No Change
4	Should have Vacuum Pump for closed door drying	No Change

5	Should have rapid warm up facility. Built in reservoir to store water required to produce steam, and used water separately, for easy decantation.	No Change
6	The system should be equipped with required safety features. The door should have double locking safety feature and should open only with atmospheric pressure in the chamber.	No Change
7	Should have automatic cut-off to prevent overheating and cut-off for insufficient water, the machine should not start without sufficient water.	No Change
8	Should have a minimum chamber capacity of 22 liters or above.	No Change
9	Should have pressure display and temperature display.	No Change
10	Unit should function with 200-240Vac, 50/60 Hz input power supply.	No Change
11	The system should comply with National quality certification or International standards for sterilization safety.	No Change
12	Following accessories should be supplied along with the equipment.	No Change
	• 1 set of 3 removable shelves – stainless steel. • 1 instrument basket – stainless steel.	No Change
	• 1 Roll of sterilization indicator or Class VI	No Change
	• 1 box paper sheet 100 nos crepe for sterilization packs.	No Change
	• 2 spare silicone gaskets.	No Change
	• 1 sets of spare fuses	No Change
13	Equipment should be provided with a line cord (power cord) of acceptable durability, quality, length and current carrying capacity and should be compatible with Indian standard power socket.	No Change
14	Controls should be visible and clearly defined.	No Change
15	Labels and markings should be clear and visible.	No Change
16	Should have USFDA/European CE (Issued by notified body)/BIS/CDSCO/ISO13485 from NABC approved model.	No Change
17	Should have Printer Facility	No Change
18	Sterilization Programme type:	No Change
	1. unwrapped 134 degree	No Change
	2. unwrapped 121 degree	No Change
	3. wrapped 134 degree	No Change
	4. wrapped 121 degree	No Change
	5. Cotton 121 degree	No Change
	6. Rubber & plastic 121 degree	No Change
	7. prtein 134 degree	No Change
	8. BD-Helix test 134 degree	No Change
	9. Leakage test	No Change
	It should have one autoclave cycle of sterilization time of 4 min at 134 degree	No Change

Name of Equipment:-A-Scan		
Sl. No	Technical Specification as per tender	Final Amendment
1	Should have easy readable LCD display	Should have easy readable LCD/LED display
2	Should have adjustable gain control	No Change
3	Should have a probe frequency of 10 MHz with internal fixation light	No Change
4	Should use immersion & contact measurement technique	No Change
5	Should have automatic, manual, PMMA, Silicone, Acrylic,	No Change
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 14 to 40mm	No Change
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	No Change
11	Should have RS232/LAN/USB (in case of External Printer only)	No Change
12	Should operate from 200 to 240V / 50 Hz power supply	No Change
13	Certification- USFDA/European CE from notified body	Certification- USFDA/European CE from notified body/BIS
Name of Equipment:-B-Scan		
Sl. No	Technical Specification as per tender	Final Amendment
1	Probe 10 MHz. MHz or Above Focused Transducer, 20 or More Frames/Sec. and Orbit Mode	No Change
2	Measurements: Distance and area	No Change
3	Amplifier 100 dB Gain with Gain and TVG controls	No Change
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)	No Change
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/ISO 13485 (IAF Accredited).	No Change
Name of Equipment:-Retinoscope		
Sl. No	Technical Specification as per tender	Final Amendment
1	Should have an external focusing sleeve which is easy to grip and Manipulate.	No Change
2	Should allow one-hand operation for streak focus and 360 ⁰ streak Rotation.	No Change
3	Should be interchangeable to plane mirror and concave mirror mode by sleeve movement.	No Change
4	Should have xenon/LED light source	No Change
5	Should have 100% dust proof housing and multicoated optics.	Should have concealed Optics & Multicoated Optics
6	Should have brow rest for spectacle wearer.	No Change
7	Should be rechargeable battery with charger/mains operated.	No Change
8	Should have a carrying case.	No Change
9	US FDA and / European CE (Issued by a notified body) approved model should be offered	No Change
Name of Equipment:- Nd- Yag Laser		
Sl. No	Technical Specification as per tender	Final Amendment
1	Laser Wavelength 1064 nm	No Change
2	Mode Super Gaussian /crystal	No Change
3	Optical BreakdownTypically.2.5mJ in air	No Change
4	Pulse Duration≤ 4ns (typ. 2-3 ns)	No Change
5	Max. laser energy	No Change
a.	Single Pulse, typically 10mJ.	No Change
b	Double Pules, typically 23 mJ	No Change
c	Triple Pulse, typically 37 mJ	No Change
6	Energy Levels 22 steps ±2	No Change
7	Pulse repetition Frequency Max. 2.5 Hz.	No Change
8	Focus Diameter10 µm in air (1/e ²)	No Change
9	Angle of exit aperture16	No Change
10	Aiming beam Laser diode 630 nm or above, power: 5 µW -150 µW, 1-4 spot focusing system	No Change
11	Focus Shift Variable150 µm: 0: -150 µm ±20 percent	No Change
12	Electrical connection240 V.+/- 10%. 50 Hz.	No Change
13	Illumination 6V/20W or 12V/30 W halogen/LED lamp	No Change
14	Magnification 5. 8. 12x through Galilean changer with 10X eye pieces and tube f = 140mm	No Change

15	Tube Parallel tube f=140 mm with 50 -78 mm PD adjustment Convergent tube should be available as option	No Change
16	Eyepieces 10X high eyepoint eyepieces with ELD compensation of ametropia: 12 5X available as option	No Change
17	Slit adjustment Width 0 -14 mm, continuous	No Change
18	Length in steps 1/3/5/9/14 mm	No Change
19	USFDA/ European CE (Issued by notified body) approved model should be offered	No Change
20	Motorized table to be provided	No Change
21	Suitable Capacity UPS to be provided.	No Change
22	Abraham lens 1 no. & Yag PI lens 01 no. to be provided	No Change
Name of Equipment:- Indirect Ophthalmoscope		
Sl. No	Technical Specification as per tender	Final Amendment
1	Binocular Indirect ophthalmoscope with precision viewing up to 2.0 mm pupil size.	Binocular Indirect ophthalmoscope with precision viewing up to 1.0 mm or more pupil size
2	Spot size: 3 integrated spot size small spot, medium spot & large spot.	No Change
3	Integrated filters to choose from red free filter, cobalt blue filter/ Diffuser, IR and UV filter integrated for patient best possible protection	No Change
4	Vertical adjustment, +/-4°	No Change
5	Headband with Rheostat and Articulating Hinge to provide vertical adjustment of the rear band	No Change
6	Should have flip up adjustment optics, which can be flipped between 0-60	No Change
7	Aperture and filter adjustment levers: can be locked to the desired position required.	No Change
8	P.D. range atleast from 54-74 mm	PD Range is 48-76mm
9	6V halogen /Xenon bulb/LED.	No Change
10	Voltage system of AC 220 -240 volts	No Change
11	Carrying case	No Change
12	Head Band Mounted Rechargeable battery with charger	No Change
13	Accessories +20D lens, +15D lens & +30D lens (one number each)	No Change
14	US FDA/ European CE (Issued by a notified body) approved Model should be offered.	No Change
15	Teching Mirror to be provided (1 No.)	No Change
Name of Equipment:- Direct Ophthalmoscope		
Sl. No	Technical Specification as per tender	Final Amendment

1	Halogen/ Xenon light for true tissue colour and consistent, long –lasting illumination.	LED/ Xenon light for true tissue colour and consistent, long –lasting illumination.
2	6 apertures for general and specialist use and 28 lenses with -25 or + 40 diopters for better resolution.	No Change
3	Rubber brow rest prevents scratching of eyeglasses.	No Change
4	Red free & blue filter. The extensive range of +29 D to -30 D in single diopter step sensors	No Change
5	Dust free sealed optics	Should have concealed & multicoated Optics
6	Universal convertible handle/ Rechargeable Handle	No Change
7	Nickel –Cadmium/Lithium rechargeable battery and charger	No Change
8	US FDA/ European CE (Issued by a notified body) approved Model should be offered.	No Change
Name of Equipment:- Photo Slit lamp		
Sl. No	Technical Specification as per tender	Final Amendment
1	The equipment should have following features	No Change
	(i) Background illumination adapter (It is optional)	No Change
	(ii) Beam Splitter	No Change
	(iii) Digital Adapter.	No Change
	(iv) Camera Minimum 5-15 mpx with CMOS technology	Camera Minimum 5-15 (±2) megapixel with CMOS technology
	(v) Software for photo Management	No Change
	(vi) Power adapter.	No Change
	(vii) Memory card 8 GB	No Change
	(viii) Electric Table	No Change
	(ix) Camera parameters are setup, so you don't have to figure out the correct setting	No Change
2	Microscope	No Change
	(i) Type Galilean- Type	No Change
	(ii) Magnification change Revolving Drum	No Change
	(iii) Total magnification Ratio 6x,10x, 16x,25x, 40x (Standard configuration)	No Change
	(iv) Eyepieces 12.5x	No Change
	(v) Angle between eyepieces 10-15 degree	No Change
	(vi) Pupillary adjustment 55mm - 78mm +/- 2 mm	No Change
	(vii) Diopter adjustment + - 6 D (+/- 1 Diopter)	No Change
	(Viii) Field of view 40 x (A:5.5mm), 25 x (A:8.5mm), 16x(A:13.5mm), 10x(A:22mm)	No Change

	(iX) 6x(A:34.7mm)	No Change
3	Slit Illumination	No Change
	(i) Slit width: continuously variable from 1mm to 12mm/14mm. (at 12mm/14 mm slit become circle)	No Change
	(ii) Lamp: 6V/20 W Halogen/LED Lamp	No Change
	(iii) Slit angle: 0 degree to 180degree (continuously adjustable both vertical and horizontal)	No Change
	(iv) Slit inclination: 4 step 5degree, 10degree, 15degree 20degree	No Change
	(v) Filters: Thermal Safety, UV, Red free cobalt Blue.	No Change
	(vi) Aperture diameters : A:12mm/14mm A: 10mm, A:5mm A:3mm, A: 2mm, A:1mm, A:0.2mm.	No Change
	3. Base	No Change
	i. Longitudinal movement : 90 mm	No Change
	ii. Lateral movement : 90-110mm	No Change
	iii. Vertical movement : 25-30 mm	No Change
	4. Chin –Res	No Change
	i. Vertical movement :80mm	No Change
	ii. Fixation : Green/Red LED	No Change
	5. Power:	No Change
	i. Input voltage : 220V/110V +-10%	No Change
	ii. Input Frequency : 50Hz/60Hz.	No Change
	iii. Power Consumption : 30VA (max)	No Change
	iv. Output voltage : Lamp 6V (Continuously adjustable)	No Change
	v. Fixation 3V	No Change
	Dimension & Weight (As Per Standard)	No Change
	Working environment (As Per Standard)	No Change
	Storing environment (As Per Standard)	No Change
	Transporting environment: (As Per Standard)	No Change
	Technical specification for the Camera.	No Change
	(i) 5-15 megapixel CMOS sensor captures enough detail for poster size photo-quality prints.	5-15 (±2) megapixel CMOS sensor captures enough detail for poster size photo-quality prints.
	(ii) Minimum 32 inch LED display to enhance Live View	No Change
	(iii) Digital image processor	No Change
	(iv) Integrated cleaning system plus dust delete data detection included software	No Change
	(v) Stores images on SD/SDHC memory cards	No Change
	Quality certificate: European CE/USFDA	No Change
1	Online UPS of suitable capacity with 15 minutes battery backup	No Change

2	Illumination control should be on base of Slit for easy operation	No Change
Name of Equipment:- Auto Refractometer with Keratometer		
Sl. No	Technical Specification as per tender	Final Amendment
	Measurement range of Autorefractometer	No Change
	Should be Sphere = -20 to + 22 D (Increments: 0.12 D/0.25D)	No Change
	Should be Cylinder = 0 to + 10 D (Increments: 0.12 D/	No Change
	Should be Axis = 1° to 180° (Increments 1 degree)	No Change
	Should be Inter Pupil Distance (IPD) = 20 to 85 mm (Increments 1/0.5	No Change
	Should be Vertex distance = 0, 12, 13.5 mm adjustable	No Change
	Should be Minimum pupil size = 2.0 mm	No Change
	Measurement range Keratometer	No Change
	Should have Radius of curvatures = 5 to 10 mm (Increments 0.01 mm)	No Change
	Should have Corneal power of = 33.75 D to 61.25 D (Increments 0.12 D/ 0.25 D)	No Change
	Axis Should be = 1° to 180° (Increments 1 degree)	No Change
	Corneal diameter Should be = 2.0 to 15 mm (Increments 0.1 mm	No Change
	Fully/semi-automatic alignment	No Change
	Should have Printer	No Change
	Should have 5" or more display.	No Change
	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.	No Change
	Standard accessory like Dust cover, Chin rest & 25 Roll of printing paper etc. to be provided.	No Change
	Power supply to be 220-240VAC, 50Hz fitted with Indian plug.	No Change
	Suitable UPS with maintenance free batteries & Back up time 30 minutes.	No Change
	US FDA / European CE (Issued from Notified Body) should be offered.	No Change