



**Bihar Medical Services & Infrastructure Corporation
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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/2023-24/ME-333. During and after 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/2023-24/ME-333
Last date and time of submission of online bids	12th December 2023 till 17:00 Hrs.
Last date and time of submission of original documents of EMD, Tender Fee and Document.	13th December 2023 till 14:00 Hrs.
Date, Time and Place of opening of Technical Bid	13th December 2023 (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-1

Name of Equipment:- Ophthalmic OT Table		
Sl. No	Technical Specification as per tender	Final Amendment
1	Suitable for ophthalmic surgery	No Change
2	It should be Motorized	No Change
3	It should have Head rest and wrist support.	No Change
4	Maximum height: 900 mm approx.	Maximum height: 900 mm (±10%)
5	Minimum Height: 580 mm approx.	Minimum Height: 580 mm (±10%)
6	It should have height adjustment facility. The approximate range for Height adjustment should be 300 mm.	It should have height adjustment facility. The approximate range for Height adjustment should be 300 mm. (±10%)
7	Length: 1900 mm approx.	Length: 1900 mm (±10%)
8	Width: 700 mm approx.	Width: 700 mm (±10%)
9	Trendelenburg: 28 degree approx.	Trendelenburg: 28 degree (±1degree).
10	Reverse Trendelenburg: 15 degree approx.	Reverse Trendelenburg: 15 degree (±1degree)
11	It should have facility for instrument tray.	No Change
12	USFDA/European CE (Issued by Notified body) /BIS approved model should offered.	No Change
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
	Added:-	Should be supply with Motorised Surgen Chair with Support to backrest.

Name of Equipment:- Gonio Lens		
Sl. No	Technical Specification as per tender	Final Amendment
	Should supply following lens set	
1	2-sussmann lens	4 Mirror Gonio lens Sussman
2	1-zeiss four mirror gonio lens	Removed
3	1-Four mirror goldmann lens	Removed
4	1-Abraham lens	Removed
	Added:-	USFDA/European CE (Issued by Notified body) approved model should be offered.
Name of Equipment :-Small Incision Cataract Surgery (SICS) Set		
Sl. No	Technical Specification as per tender	Final Amendment
1	Barraquer wire speculum, Large	No Change
2	Suture tying forceps curved	No Change
3	MC Pherson forceps	No Change
4	MC Pherson Corneal Forceps, 1X2 teeth	No Change
5	Sup. Rectus Forceps	No Change
6	Castroviejo Corneal Scissors, Universal	No Change
7	VannasCapsulotomy Scissors, Angled	No Change
8	Barraquer Needle Holder, Microjous W/o Lock	No Change
9	Simcoe I/A Cannula, Direct	No Change
10	BP Handle – 11 no blade	No Change
11	Sinkey 11 lens Manipulating Hook	No Change
12	Phaco Chopper	No Change
13	Iris Repositor	No Change
14	Utrata Forceps	No Change
15	Sterilization Box	No Change
16	Tenotomy Scissors	No Change
17	Steel Bowl	No Change
18	Supplied in protective SS case for clean storage and safe transport	No Change
19	Manufacturer should have ISO 13485 certification for quality standards.	Manufacturer should have ISO 13485 certification for quality standards. (Certificate issued from certification bodies accredited by NABCB / Nationally Recognized Accreditation Board under IAF MLA”.

	Added:-	All Equipment should be Titenium Quality, excepts Sr. 10 & 17
Name of Equipment :-Distance Vision Drum (After Amendment-Digital Vision Chart)		
Sl. No	Technical Specification as per tender	Final Amendment
a	Should have LCD monitor of 18.5 inches which is remote operated	Should have LCD/LED monitor of 18 inches or higher which is remote operated
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.	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.
c.	Should have an available distance of 6 feet, 8 feet, 12 feet, 15 feet and 20 feet	No Changes
d.	Should have eye Educational charts about Lasik, Cataract, Retina, Cornea, Contact lens.	No Changes
e.	Should operate from 200 to 240v, 50 Hz power supply.	No Changes
f.	USFDA/European CE (Issued by Notified body) /BIS Approved model should be offered.	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”.
Name of Equipment :-Near Vision Drum		
Sl. No	Technical Specification as per tender	Final Amendment
a	Should have LCD monitor of 18.5 inches which is remote operated	Removed

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.	Removed
c.	Should have an available distance of 6 feet, 8 feet, 12 feet, 15 feet and 20 feet	Removed
d.	Should have eye Educational charts about Lasik, Cataract, Retina, Cornea, Contact lens.	Removed
e.	Should operate from 200 to 240v, 50 Hz power supply.	Removed
f.	USFDA/European CE (Issued by Notified body) /BIS Approved model should be offered.	Removed
	Added:-	1. Animal Picture Chart for per-verbal children. 2. Self illuminated. 3. English, Hindi,Regional language, 4. Illiterate E and C Chart, Pediatric chart , Number chart . 4. Plates made from high quality non reflective plastic.
Name of Equipment :-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 all models of slit lamps.	Should be compatible with Haagstreit models of slit lamps.
6	Power requirements Electrical Requirement: 200-230 VAC 50/60 Hz single phase	Deleted
7	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

8	Certificates and safety standards	No Change
a.	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 - spheres + and -.	Lenses - + and -Cylinder + and -.
a.	0.25 to 4.0 in 0.25 steps	0.25 to 4.0 in 0.25 steps Spheres
b.	4.5 to 6.0 in 0.5 steps.	4.5 to 6.0 in 0.5 steps Spheres
c.	7.0 to 14.0 in 1.0 steps.	7.0 to 14.0 in 1.0 steps Spheres
d.	16.0 to 20.0 in 2.0 steps	16.0 to 20.0 in 2.0 steps Spheres
e.	0.25 to 3.5 in 0.25 steps	0.25 to 3.5 in 0.25 steps Cylinder
f.	4.0 to 6.0 in 0.5 steps	4.0 to 6.0 in 0.5 steps Cylinder
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)		
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 cycle.	Should have flash cycle for rapid sterilization and should have an option for liquid /Customize cycle.
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 19 liters or above.	Should have a minimum chamber capacity of 22 liters or above.
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 set of 2 Drum for sterilization – stainless steel.	Deleted
	• 1 Roll of sterilization indicator.	• 1 Roll of sterilization indicator or Class VI
	• 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)	No Change
Added:-		Should have Printer Facility
		Sterilization Programme type:
		1. unwrapped 134 degree
		2. unwrapped 121 degree
		3. wrapped 134 degree
		4. wrapped 121 degree
		5. Cotton 121 degree
		6. Rubber & plastic 121 degree
		7. prtein 134 degree
		8. BD-Helix test 134 degree
9. Leakage test		
	It should have one autoclave cycle of sterilization time of 4 min at 134 degree	
Name of Equipment :- A-Scan		
Sl. 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	No Change
4	Should use immersion & contact measurement technique	No Change
5	Should have automatic, manual, PMMA, Silicone, Acrylic, Aic 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 14 to 40mm

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 Should have RS232/LAN/USB	Should have RS232/LAN/USB (in case of External Printer only)
12	Should operate from 200 to 240V / 50 Hz power supply	No Change
13	Certification- USFDA/European CE from notified body	No Change

Name of Equipment :-B-Scan

Sl. No	Technical Specification as per tender	Final Amendment
1	Probe 10 MHz. MHz, Focused Transducer, 30 Frames/Sec. and Orbit Mode	Probe 10 MHz. MHz or Above Focused Transducer, 20 or More Frames/Sec. and Orbit Mode
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	Certification- USFDA/European CE from notified body/ISO 13485 (IAF Accredited).

Name of Equipment :-Retinoscope

Sl. No	Technical Specification as per tender	Final Amendment
	Measurement range of Autorefractometer	Remove
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.	No Change
6	Should have brow rest for spectacle wearer.	No Change
7	Should be rechargeable battery with charger/mains operated.	Should be rechargeable battery with charger/mains operated.
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 :-Auto Refractometer with Keratometer		
Sl. No	Technical Specification as per tender	Final Amendment
	Measurement range of Autorefractometer	
1	Should be Sphere = -20 to + 22 D (Increments: 0.12 D/0.25D)	No Change
2	Should be Cylinder = 0 to + 10 D (Increments: 0.12 D/	No Change
3	Should be Axis = 1° to 180° (Increments 1 degree)	No Change
4	Should be Inter Pupil Distance (IPD) = 10 to 85 mm (Increments 1	Should be Inter Pupil Distance (IPD) = 20 to 85 mm (Increments 1/0.5
5	Should be Vertex distance = 0, 12, 13.5 mm adjustable	No Change
6	Should be Minimum pupil size = 2.0 mm	No Change
	Measurement range Keratometer	
7	Should have Radius of curvatures = 5.5 to 10 mm (Increments 0.01 mm)	Should have Radius of curvatures = 5 to 10 mm (Increments 0.01 mm)
8	Should have Corneal power of = 33.75 D to 61.25 D (Increments 0.12 D/ 0.25 D)	No Change
9	Axis Should be = 1° to 180° (Increments 1 degree)	No Change
10	Corneal diameter Should be = 2.0 to 16 mm (Increments 0.1 mm	Corneal diameter Should be = 2.0 to 15 mm (Increments 0.1 mm
11	Fully/semi-automatic alignment	No Change
12	Should have Printer	No Change
13	Should have 5" or more display.	No Change
14	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
15	Standard accessory like Dust cover, Chin rest & 25 Roll of printing paper etc. to be provided.	No Change
16	Power supply to be 220-240VAC, 50Hz fitted with Indian plug.	No Change

17	Suitable UPS with maintenance free batteries & Back up time 30 minutes.	No Change
18	US FDA / European CE (Issued from Notified Body) 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 \leq 4ns (typ. 2-3 ns)	No Change
5	Max. laser energy	No Change
a.	Single Pulse, typically 10mJ.	Single Pulse, typically 10mJ ± 1
b	Double Pules, typically 23 mJ	Double Pules, typically 23 mJ ± 1
c	Triple Pulse, typically 37 mJ	Triple Pulse, typically 37 mJ ± 1
6	Energy Levels 22 steps ± 2	No Change
7	Pulse repetition Frequency Max. 2.5 Hz.	No Change
8	Focus Diameter10 μ m in air (1/e2)	No Change
9	Angle of exit aperture16	No Change
10	Aiming beam Laser diode 630 nm or above, power: 5 μ W -150 μ W, 1-4 spot focusing system	No Change
11	Focus Shift Variable150 μ m: 0: -150 μ m ± 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	Magnification 6.10.16, 25.40X through Galilean changer with 10X eye pieces and tube f = 140mm
15	Tube Parallel tube f=140 mm with 50 -78 mm PD adjustment Convergent tube should be available as option	No Change
16	Eyepieces10X high eyepoint eyepieces with EID compensation of ametropia:12 5X available as option	No Change
17	Slit adjustmentWidth0 -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	Capauity UPS to be provided.	Suitable Capacity UPS to be provided.
22	Abhraham lens 1 no. & Yag PI lens 01 no. to be provided	No Change
Name of Equipment :-Indirect Ophthalmoscope		

SI. No	Technical Specification as per tender	Final Amendment
1	Binocular Indirect ophthalmoscope with precision viewing up to 1.0 mm pupil size.	Binocular Indirect ophthalmoscope with precision viewing up to 2.0 or above mm 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 from 46-75 mm ± 2mm	No Change
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)	Accessories +20D lens , & +30D lens (one number each)
14	US FDA/ European CE (Issued by a notified body) approved Model should be offered.	No Change
15	Teaching Mirror to be provided (1 No.)	Teaching Mirror to be provided (1 No.)
Name of Equipment :-Direct Ophthalmoscope		
SI. No	Technical Specification as per tender	Final Amendment
1	Halogen/ Xenon light for true tissue colour and consistent, long –lasting illumination.	No Change
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	Red free and blue filter. The extensive range of +29 D to -30 D in single diopter step sensors
5	Dust free sealed optics	No Change

6	Universal convertible handle/ Rechargeable Handle	Universal convertible handle/ Rechargeable Handle
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