



Notice Inviting e-Tender

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Procurement of Medical Equipment for National Blindness Control Programme & Visual Impairment
and Vision Centre

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-27/2021

Dated- 01.02.2021

The following amendment have been made in the tender document,

Amendment-I

Section I: Instructions to Tenderers

A. Important information at a glance

4. Annual Turnover requirements: (E)

The Tenderers should have annual sales turnover (i.e. total turnover of the company) of minimum on an average of last three financial years (2017-18, 2018-19, 2019-20) as per the Audited Accounts of the Organization as mentioned in the table below:

Sl. No.	ITEM	Annual Turnover in Crore Rs.
1	Flash Autoclave	1.5
2	Streak Retinoscope	
3	ND-Yag Laser	
4	Non-Mydriatic Fundus Camera	
5	Gonioscope	
6	Indirect Ophthalmoscope	
7	Surgical Set for Cataract, Glaucoma and Squint	
8	Microsurgical Instruments	
9	Vision Chart	

Amendment-II

TECHNICAL SPECIFICATIONS

Sl. No. 1. Flash Autoclave

1. Chamber Volume (Litre) – minimum 16
2. Microprocessor controlled
3. No of Trays - 3 Tray
4. Temperature: 121°C and 134°C
5. Fully Automated
6. **Safety & Standard:** European CE or US FDA Certificate or BIS

Sl. No.2. Streak Retinoscope

1. The Streak retinoscope should be Parastop/ cylinder and the good fundus reflex and easier detection of the neutralization point.
2. It should be homogeneous xenon illumination for precise streak image quality offers an easy and quick observation of the fundus reflex.
3. It should be precise easy selection of a parallel beam.
4. It should be brilliant precise streak image with a line width of typically 1.1 mm and a line length of 35 mm for a very bright readily visible fundal reflex.
5. It should be stepless dimming from 3% to 100% with practical one finger operation.
6. It should have all metal handle to hold 2D cells and the voltage range should be between 2.5V – 3.5V.
7. It should have ergonomic shape and protect the orbita of examiner from stray lights.
8. It should have metal control which should be long lasting.
9. It should have single control for vergence and rotation for comfortable operation.
10. It should be maintenance free and dustproof.
11. It should have integrated polarization filter eliminates stray light and internal reflexes for a brighter fundus reflex.
12. It should have holder for fixation cards (optional) for dynamic retinoscopy.
13. **Safety & Standard:** European CE or US FDA Certificate or BIS

Sl. No.3. Nd Yag Laser

1. Laser type should be Q-switch (CQ-crystal) Nd YAG.
2. The laser wave-length should be 1064 nm with mode of delivery beam Super/Gaussian/fundamental and optical breakdown being typically 2.5 millijoule in air.

3. Astigmatism Distortion detection should be done 2 point aiming beam for highlighting astigmatic distortions.
4. The pulse duration should be less than 4 nano second (Typically 2-3 Ns) with maximum laser energy and pulse width should be in between 3 ns – 5 ns.
 - a) Single pulse – typically 10 millijoule
 - b) Double pulse - typically 23 millijoule
 - c) Triple pulse - typically 37 millijoule
5. The energy level should be 22 steps with a pulse repetition frequency of maximum 2.5 hz and a focused diameter of $10\mu\text{m}$ in air ($1/e^2$).
6. Machine should have burst model (1,2 or 3 pulse per burst).
7. Spot size should be $8\mu\text{m}$ (FWHM).
8. Angle of exit aperture should be 16 degree and the range should be within 15-17 degree with aiming beam laser diode preferably 670 nm, power $5\mu\text{W}$ - $150\mu\text{W}$.
9. The focus shift variably should be preferably $+150\mu\text{m}$; $0-150\mu\text{m}$ with electrical connection 100-240 V, $\pm 10\%$, 50-60 Hz and the illumination of 12V; 30W halogen lamp adjustable.
10. The magnification should be 5 step magnification through Gallilean changer with 10X eye pieces and tube $f=140\text{mm}$.
11. The tube should be parallel tube $f=140\text{mm}$ with 50-78mm PD adjustment and convergent tube should be available as option.
12. Eye pieces should be 10X high eye point eye pieces with ± 8 Diopter compensation of emetropia; 12.5 X available as option.
13. A slit adjustment width should be 0-14mm, continuous length, in steps 1/3/5/9/14mm and the isolation transformer machine should isolation transfer for safe handling.
14. Ionization in water should be less than equal to 1 mili Joule.
15. **Safety & Standard:** European CE or US FDA Certificate or BIS

Sl. No.4. Non mydriatic Fundus Camera

1. It should be portable.
2. It should be angle of coverage 45/30 degree or equivalent (digital zoom).
3. It should have pupil diameter of 3.5mm or less.
4. The capture modes should be true colour (with red, green and blue channel separation).
5. It should have facility to display the image on Laptop/ Monitor with high storage capability (atleast 1TB) and data transfer capabilities.
6. It should have minimum sensor resolution of 5 megapixels or more.
7. It should have acquisition speed of LIVE IR preview.
8. It should have a docking station
9. It should have a portable secured carrying case
10. **Safety & Standard:** European CE or US FDA Certificate or BIS

Sl. No.5. Gonioscope

1. It should be 2 mirror lens.
2. It should be two opposing 62 degree mirrors providing a complete view of the anterior chamber angle with only a 180 degree lens rotation.
3. It should be available for use without methyl cellulose (NMR).
4. Lens magnification should be **at least 0.80x**.
5. Contact diameter should be 15 mm.
6. Lens height should be **at least 20 mm**.
7. **Safety & Standard:** European CE or US FDA Certificate or BIS

Sl. No.6. Indirect Ophthalmoscope

1. Binocular Indirect Ophthalmoscope with LED illumination (wireless)
2. PD range : **55** - 75mm
3. Headband mounted **with adjustable knob**.
4. Full adjustable positioning of optics
5. Vertical light beam adjustment
6. Ergonomically adjustable Headband.
7. Aperture sizes: Large, medium, small
8. Filters: yellow, cobalt blue & red free & can be locked into a desired position.
9. Synchronized convergence & parallax adjustment
10. Fine tuning of the illumination beam
11. Diffuser to provide soft light, reducing glare and reflexes during examination
12. Rheostat control for Controlling LED illumination.
13. Rechargeable battery mounted on headband.
14. Accessories : +20D & +30D Aspheric Lens, Scleral indenter, Fundus chart, marking pencils
15. Carrying case
16. Standard safety measures **regarding ophthalmology tissue damage**.
17. Portable Charger.
18. **Safety & Standard:** European CE or US FDA Certificate or BIS

Sl. No. 7. Surgical sets of cataract, Glaucoma surgery and Squint surgery (**Bidder** **should offer all the item in a package**)

(a) Surgical sets of cataract

1. Wire speculum.
2. Libermann adjustable speculum.

3. Superior rectus forceps.
4. Small needle holder for bridle suture.
5. Lim's forceps (85mm length, 5mm platform).
6. St martin forceps.
7. Conjunctival spring scissors.
8. Vanuss scissors (angled), 85 mm length 6 mm cutting tip.
9. Sinsky hook (length 120mm, 10mm angulation).
10. Angled serrated wire vectis.
11. Irrigating vectis (23 g, 4mm width, 7mm long, 3 irrigating port).
12. Biway cannula (21G, 22G, 23G).
13. McPherson forceps (110mm length, 11mm angulation).
14. Utrata's forceps.
15. Barraquer's needle holder (115mm).
16. Suture tier forceps (metal, length 110mm, platform 6mm).
17. Iris Repositer (length 110mm, angulation 10mm, width 0.5mm)
18. CTR Ring (material-PMMA, Normal Size-12mm, Compressed size-10mm, Fixation hooks-both side).
19. AC cannula (Metal, 8mm angulation blunt tip 21 G-27G)
20. Chopper (Phaco blunt and sharp).
21. Wet field cautery.

(b) Instrument for glaucoma surgery

1. Kelly's descemet's membrane punch forceps (Standard size).
2. Colibri forceps
3. Castroviejo corneal scissors.
4. Bard-Parker handle
5. Harms trabeculotome
6. Tooke's knife
7. Barkan's goniotomy lens
8. Goniotomy knife
9. Scieral punch
10. De Weker's scissors
11. Iris forceps

(c) Instrument for squint surgery

1. Castroviejo caliper
2. Knapp strabismus scissors
3. Non toothed dissecting forceps, (115 mm length)
4. Tissue forceps (long and short)
5. Upper lid retractor (Desmarre's)
6. Tancaster eye speculam
7. Graefe muscle hook size 1

8. Jameson muscle hook, large
9. Jameson muscle forceps, left
10. Jameson muscle forceps, right
11. Woth advancement forceps
12. Stevens tenotomy scissors
13. Arruga needle holder
14. Fixation forceps (2:3)
15. Plain dissecting forceps (without teeth and fine serration)
16. Bulldog clamp

Sl. No.8. Microsurgical instruments

1. Crescent knife
2. Keratome (2.8 mm, 3.2 mm)
3. Lancetip sideport knife

