



Notice Inviting e-Tender
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Procurement of Medical Equipment for National Blindness Control Programme & Visual Impairment
(Group-B)
(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT- 171/2022

Dated- 26.04.2022

Amendment-I

TECHNICAL SPECIFICATIONS

Sl. No. 1. Eye Operating Microscope (Basic)

1. Main Microscope

- i. Binocular Tube: Parallel 45° inclined binocular tube
- ii. Objective Lens: F = 200 mm
- iii. Eyepieces: 10x or more (+/- 5 D or more D)
- iv. Magnification Mechanism: Minimum 5 steps manual
- v. Total Magnification: 4x to 25x; atleast 5 steps
- vi. Field of View: Ø 9 mm to Ø 63 mm or wider
- vii. X - Y Translator: Range: ± 25 mm
- viii. IPD measuring scale: 55 to 70 mm

2. Illumination

- i. Light Source: LED
or

Halogen lamp with light guided system (one touch changeable two lamps) - Required lamps are to be provided free of cost for at least 5 years

- ii. Filter: Built - in: Heat - absorbing (for LED & Halogen lamp) & UV cut filters (for Halogen lamp only)

Flip - in/Out : Yellow filter

3. Arm (Counter - balanced)

- i. Length: 1st Arm: 350 to 450 mm; 2nd Arm: 550 to 650 mm (FOR EASY MOVEMENT DURING OPERATION)
- ii. Rotational Angle: 1st Arm: 360° ; 2nd Arm: 250 to 300°

4. Power Unit

- i. Primary Voltage: AC 220 ~ 240 V
- ii. Power Frequency: 50 Hz

5. FEATURES

The equipment should have the following features:

- Coaxial Illumination
- Stain-proof Coated Objective Lens
- Parallel Binocular Tube
- PD Adjustment Knob
- Builtin Yellow Filter

6. Safety & Standard

CE (having 4 digit notification number from European Union Notified body) or **UKCA** or US FDA Certificate or BIS

Sl. No. 2. A-Scan Biometry

A Scan Probe

1. Probe Frequency: 10 MHz
2. Fixation: Internal LED

Measurement Range

1. Axial Length: 15.0 mm to 40.0 mm or wider
2. ACD: 2.0 mm to 6.0 mm
3. Lens Thickness: 2.0 mm to 7.5 mm
4. Measurement Accuracy: ± 0.1 mm

Measurement Techniques

1. Method: Immersion & Contact
2. Mode: Auto & Manual
3. Lens Types: Aphakic, Normal, Cataract, Dense Cataract, Pseudophakic (Silicone, PMMA, Others), Silicone Oil.
4. Display: High Resolution 5" or more colour display with Touch Screen

Formula

1. SRK – T, SRK – II, Holladay, Hoffer- Q, Haigis & Post Refractive Formulas

Control

1. Storage: 100 Patient records, 10 Preset User, 25 IOL Configurations
2. Camp Mode: Fast Measurement with IOL Calculation in Single Screen
3. Printer: Fast Thermal Printer with Auto / Manual Cutter

Power

1. Electrical Requirements: 230V AC/50 Hz

Other Features

1. Auto & Manual Gain
2. Automatic Calculation of Standard deviation & average Axial length (Series of 10 measurements)
3. Simultaneous display of 2 or more different IOL Calculations
4. RTC Shows the date & Time throughout the life of the instrument
5. Various user programmable printouts Format
6. Measurement Possible for Various velocity of each Segment

Accessories

Soundless Motorized Table.

Safety & Standard

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Sl. No. 3. Auto Refractometer

1. The auto refractometer should have the following objectives and Refraction mode:
 - a) The machine should have the Spherical range – 22D to +22D (0.12D / 0.25D)
 - b) The Cylindrical range should be 0D to $\pm 10D$ (0.12D / 0.25D)
 - c) It's Axis range should be 0° to 180° (1° or 5° steps)
2. It should have the following Corneal Curvature mode:
 - a) The Corneal curvature radius should be 5.00 to 10.00
 - b) It should have the Refraction Index 1.3375 with Corneal refraction 67.5D to 33.75D (0.12D / 0.25D)

- c) The Corneal astigmatism should be 0D to $\pm 10D$ (0.12D / 0.25D) with the Corneal astigmatism axial angle 0° to 180° (1° or 5° steps)
- 3. Capability of measuring with pupillary diameter of 2 mm or less
- 4. It should have the Standard output, weight, height and power supply.

Accessories

Soundless Motorized Table.

5. Safety & Standard

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