



## Notice Inviting e-Tender

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Procurement of equipment /item for the Sub-Centre(SC), Primary Health Centre(PHC), Block Public Health Unit (BPHU) and Urban Primary Health Unit (UPHC) of the State of West Bengal under 15th Finance Commission.

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL /NIT-150/2023

Dated –31.03.2023

### Amendment-I

## Technical Specifications

### Schedule – I

#### Color vision chart

1. It should be original Japan make Ishihara Colour vision Charts Test Book of latest edition year 2018. Should have 38 plates complete with Ishihara Colour Vision Charts Test Books.
2. It should be used for discovering congenital colour blindness and red - green blindness, each in two forms, complete and Incomplete.
3. Should have four special plates for tests to determine the kind and degree of defect in colour vision.
4. Should have colour plates encased in specially designed album type books for ease of handling.

### Schedule –II

#### Direct Ophthalmoscope

1. Apertures : 6 (Cobalt blue filter, fixation star with polar co-ordinates , large spot, small spot, slit, half circle)
2. All with red-free filter.

3. Light : Xenon-Halogen / LED
4. 2.5Volt or more D / C cell being incorporated
5. machine Safety Certification: European CE (4 digit notified body)/ US FDA/ BIS

### Schedule –III

#### Ishihara Colour Chart

1. It should be original Japan make Ishihara Colour vision Charts Test Book of latest edition year 2018. Should have 38 plates complete with Ishihara Colour Vision Charts Test Books.
2. It should be used for discovering congenital colour blindness and red - green blindness, each in two forms, complete and Incomplete.
3. Should have four special plates for tests to determine the kind and degree of defect in colour vision.
4. Should have colour plates encased in specially designed album type books for ease of handling.

### Schedule –IV

#### Near Vision Chart

1. Jaeger eye chart.
2. Chart dimensions 17.5cm x 12cm.
3. Language: At least in Bengali, English and Hindi.

### Schedule –V

#### Plane Mirror for Retinoscopy

1. The product is used for treating myopic defects of eyes and is exceptional in performance. It is dimensionally accurate and made from high quality material, procured from a reliable vendor base
2. Operation Mode-Manual
3. Features- Portable
4. Plane single mirror

### Schedule –VI

#### Slit Lamp

#### **MICROSCOPE:**

1. **Type:** Galien Magnification Charger with converging binocular tubes.
2. **Magnification Selection:** 5 steps by drum rotation.
3. Eyepiece: 12.5x

4. Magnification Ratio (Field of View):

- 6x (minimum 35.1 mm)
- 10x (minimum 22.5 mm)
- 16x (minimum 14.1 mm)
- 25x (minimum 8.8 mm)
- 40x (minimum 5.6 mm)

**SLIT ILLUMINATION:**

5. **Slit Width:** Continuous from 14 mm to 0 mm (at maximum width slit becomes a circle).
6. **Slit Length:** Continuous from 14 mm to 0 mm (at maximum length slit becomes a circle).
7. **Slit Angle:** 0 to 180 degree with horizontal scanning capability
8. Filters: Blue, Red free, Amber  
UV Cut (Normal Use), IR Cut (Normal Use)
9. Illumination Lamp: LED or Halogen lamp with light guided system - Required lamps are to be provided free of cost for at least 3 years from the date of installation

**BASE:**

10. Longitudinal Movement: minimum 90 mm
11. Lateral Movement: minimum 100 mm
12. Fine Base Movement: minimum 15 mm
13. Vertical Movement: minimum 30 mm

**CHINREST:**

14. Vertical Movement: 80 mm
15. Fixation Target: Red – LED

**POWER:**

16. Input (Primary): 100-120 V, 220-240 V AC
17. Frequency: 50/60 Hz

**Accessories:**

Soundless Motorized Table.

**Safety & Standard:** CE or UKCERT or US FDA Certificate or BIS

**Schedule –VII**

**Snellen Vision Chart**

1. Item Should have 20/6 Vision Activity – Eye Chart;
2. Item Should have minimum 17 inches X 7 inches (Length X Width) size;
3. The chart should consists of rows of individual black characters printed on a white background;
4. The first row should be a single large letter, with letters becoming more

5. numerous and successively smaller with each additional row;
6. Item Should be made of HDPE [high density polyethylene] or any other non-tear water proof material
7. Chart type : E-chart

### **Schedule –VIII**

#### **Trial Box with Trail Frame**

##### **TRIAL BOX (WOODEN / PLASTIC)**

Trial box contains trial lenses arranged in pairs, prisms and accessories.

##### **TRIAL LENSES**

Reduced aperture lenses of 20 mm diameter mounted in the metal rim of 38mm diameter, Plano convex and Plano concave.

1. Spherical lenses 32 pairs present in plus and minus power. Range :  $+\&-0.12D$  to  $+\&-20.00D$ . Variation :  $0.25$  to  $4.00 D$  in increment of  $0.25 D$ .  $4.00D$  to  $6.00 D$  in increment of  $0.50 D$ .  $6.00$  to  $14.00 D$  in increment of  $1.00 D$ .  $14.00$  to  $20.00D$  in increment of  $2.00D$ .
2. Cylindrical lenses: 19 pairs present in plus & minus form. Ranges:  $+\&-0.25D$  to  $+\&-6.00D$ . Variations:  $0.25$  to  $3.50D$  in increment of  $0.25D$ .  $3.50$  to  $6.00$  in increment of  $0.50D$ .

##### **PRISMS:**

Power range of  $0.5 D$ ,  $1-6.00D$  in  $1D$  steps ,  $6-12.00D$  in  $2D$  steps

##### **ACCESSORIES:**

1. Trail frame
2. Jackson cross cylinder
3. Occluder
4. Pin hole
5. Stenopic slit
6. Maddox rod
7. Red and Green Filter

### **TRIAL FRAME (Adult)**

- Metallic/plastic adjustable trial frame
- Light weight with comfortable nose rest
- Reduced aperture to hold up to 38mm lenses for each eye.  
Atleast 3 compartment for spherical lenses, cylindrical lenses and occlude
- Nose bridge and temple are adjustable according to patient face.

### **TRAIL FRAME (CHILD)**

- Trail frame for children, for 3 pairs of lenses Ø38 mm
- Adjustable PD from 54-58 mm
- Fixed bridge
- Adjustable temple length
- Lightweight metal and plastic
- Comfort trail frame for children with adjustable nose rest.

## **Schedule –IX**

### **Vision Drum**

1. Language- Hindi, English, Bengali, Landolt C / Tumbling E
2. Color- Black and White
3. Size- Range: 6 meter
4. Material- Iron & Fiber Sheets
5. Operation Mode- Manual
6. Power Source- Direct
7. Range-6 Meter
8. Usage/Application- Vision Testing