



بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ



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## ANNEX 1

### SPECIFICATIONS

#### CATEGORY 1

##### 1. DIGITAL VISION CHART

Required Quantity 01

##### **Description:**

1. Display Type white LED
2. Display Size should not be less than 20 inches.
3. Chart should contain visual functions Red/green test, astigmatism, heterophoria, stereoscopic vision etc.
4. Chart should have optometry images Landale ring, numerals, alphabets, tumbling E, pictures etc.
5. Should have the wall mounting accessories.
6. It should be a remote-controlled, wall-mountable device.
7. Should have man ufacturer's standard warranty.
8. Product should be a reputed brand which is widely in use.

##### **Required accessories and consumables:**

1. If there is any power adaptor available should be provided extra one more.

##### **Standards and Power Requirements:**

- USFDA, CE or ISO certifications or relevant standards certification.
- Power requirement: 220-240V, 50 Hz

##### **Additional Remarks or Requirements:**

- Complete product details to be enclosed with the original brochure or catalogue (Soft or hard copy).
- Details of the standard accessories, additional accessories, optional items, consumables and minimum supplies to be stated clearly.

##### 2. OPHTHALMIC SURGEON STOOL

Required Quantity 01

##### **Description:**

1. Height-adjustable and fully movable in all directions
2. Supportive back cushion.
3. 360-degree mobility.
4. Foot control pedals for total seat up/down.



### **3. JACKSON CROSS-CYLINDER**

Required Quantity 01

#### **Description:**

1. The cross-cylinder is a sphere cylindrical lens in which the power of the cylinder is twice the power of the sphere and the opposite sign.
  2. Product: Cross Cylinder.
  3. Material: Alloy and glass.
  4. Color: Silver.
  5. Overall length: Universal or standard size
  6. Lens diameter: Universal or standard size
  7. Quantity: 2 pieces (0.25 and 0.50)
  8. 1 JCC cross-cylinder piece --0.25, 1 piece -0.50 JCC cross cylinder
  9. The lens is mounted on a handle which is placed at 45 to the axes of the cylinders
- Number of Jackson Cross Cylinders 2

### **4. LOOSE PRISM SET WITH MAGNETIC HANDLE**

Required Quantity 01

#### **Description:**

1. These loose prism sets include magnetically attachable handles that permit easier and less cumbersome counter-top storage, transport, and use than devices with permanently attached handles.
2. The magnetically attachable handles are fast and simple to attach and detach. Strong rare-earth magnets hold the devices firmly on the handles yet are easy to remove.
3. These high-quality prisms are used to measure the deviation in strabismus.
4. It is important to conduct polarized testing through prisms that cause minor interference with polarization.
5. **16 Piece Prism Set includes:** 1/2, 1, 2, 4, 6, 8, 10, 15, 20, 25, 30, 35, 40, 45, and 50 diopters plus Red Lens. Each measure 37 mm
6. **22 Piece Prism Set includes:** 1/2, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10,12, 14, 16, 18, 20, 25, 30, 35, 40 and 50 diopters plus Red Lens. Each measure 37 mm
7. Both sets come packed in a foam-lined hard plastic case for added protection.



## **5. 90D LENSES**

Required Quantity 01

### **Description:**

1. Patented biconvex lens design with double aspheric glass optics provides superior depth of focus/stereopsis and minimize distortion to provide clear views across the entire lens
2. Original 90 diopter lens that started the slit lamp fundus exam revolution: Outstanding general diagnostic lens, even though small pupils. A small diameter ring is ideal for dynamic funduscopy
3. Proprietary Anti-Reflective (A/R) coating minimizes glares and reflections during fundus exam
4. Field of View: 74°/89°
5. Image Magnification: 76 or higher
6. Laser Spot: 1.32x
7. Working Distance approximately 7mm or higher

## **6. OPHTHALMIC TRIAL LENS SET**

Required Quantity 01

### **Description:**

1. Description of Function: A box containing a set of lenses of different powers used to detect errors of refraction. Technical Specifications
2. Wooden Case
3. Spheres Lenses with Handle, Power 0.12 to 20.00 with Steps both concave and convex
4. Cylinders Lenses without Handle Powers 0.12 to 6.00 with steps both concave and convex
5. Prisms 0.50 to 12
6. Adjustable trial Frame
7. Red and Green Glass, Pin Hole, Maddox rod, synoptic slit.



## **CATEGORY 2: OPTICAL COHERENCE TOMOGRAPHY**

Required Quantity 01

### **Description:**

1. The system should have an imaging engine based on fibre optic technology.
2. It should utilize a catheter that emits near infra-red light to produce high-resolution real-time images.
3. Should have two monitors (17" and 19") plus remote video output for multiple sightlines.
4. The system should have an integrated drive-motor and Optical Controller (DOC).
5. Should have an isolation transformer.
6. The system should allow the user to:
  - 6.1. Acquire, save, and subsequently retrieve images for review.
  - 6.2. Allow to acquire and review images in L-mode (lateral view).
  - 6.3. Overlay colour maps to optimize contrast resolution.
  - 6.4. 3D imaging and reconstruction.
  - 6.5. Enlarge a defined area of interest (zoom).
  - 6.6. Make measurements and calculations of % Area stenosis
  - 6.7. Make measurement and calculations of % Diameter stenosis
  - 6.8. Add text annotations.
  - 6.9. Playback and edit images with a full range of playback and editing capabilities.
  - 6.10. Export still images and movies in raw OCT format or standard AVI, TIFF, MEG, BMP, or DICOM formats.
  - 6.11. Import OCT format images and review and edit them with full OCT review and edit capability.
  - 6.12. Perform essential file management functions.
7. The imaging Parameters of the system should be:
  - 7.1. Maximum frame rate: 100 fps
  - 7.2. Nominal pullback speed of 20mm/sec
  - 7.3. Number of lines per frame: 500
  - 7.4. Scan diameter: 10 mm
  - 7.5. Axial Resolution: 15 microns
8. Manufacturer's standard warranty with documents should be available.
9. Operators' manual and Service manual should be provided.

### **Required accessories and consumables:**

- CD/DVD RW dual player DVD RAM drive for faster image management.
- Should have a computer, a keyboard, CDROM, USB Input and a mouse.

### **Standards and Power Requirements:**

- USFDA, CE or ISO certifications or relevant standards certification.
- Power requirement: 220-240V, 50 Hz

### **Additional Remarks or Requirements:**

- Complete product details to be enclosed with the original brochure or catalogue (Soft or hard copy).
- Details of the standard accessories, additional accessories, optional items, consumables and minimum supplies to be stated clearly.



### **CATEGORY 3: OPHTHALMIC CHAIR UNIT**

Required Quantity 01

#### **Description:**

1. Consisting of ophthalmic stand and ophthalmic chair
2. To provide an ideal combination of space and examination efficiency,
3. Smooth sliding tabletop for slit lamp and keratometer etc.
4. Overhead lamp controlled by the main panel
5. Arm for chart projector
6. Standard footrest for the ophthalmic chair
7. Operator manual (English)
8. Service manual including circuit diagrams and spare parts list (English)

#### **Required accessories and consumables:**

- 2 nos Spare lamps for the overhead lamp

#### **Standards and Power Requirements:**

- USFDA, CE or ISO certifications or relevant standards certification.
- Power requirement: 220-240V, 50 Hz

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