

TENDER NOTICE: SUPPLY AND INSTALLATION OF OPHTHALMOLOGY EQUIPMENT

Reference #: KFHRF-2023-002-HF Date of Issue: Thursday, November 10, 2022 Deadline for Submission: Friday, November 18, 2022

King Faisal Hospital Rwanda Foundation (KFHRF), in collaboration with King Faisal Hospital Rwanda as its beneficiary, is seeking the services of a highly skilled and professional biomedical supply firm to offer the supply, installation and commissioning of the goods. Therefore, KFHRF hereby invites you to submit your proposal for the supply of ophthalmology equipment in alignment with the attached technical specifications.

Eligible proposals must include the following information to be considered:

- Financial Proposal, with a breakdown of all costs
- Technical proposal, with specifications of the items available
- Specification of the maximum time for delivery
- Validity of the offer
- Copy of the company's tax clearance certificate, VAT registration, and trading license
- Contacts of 3 references (company name, contact email, phone number)

Proposals should be submitted in English, addressed to the Executive Secretary, and submitted to kara.neil@kfhkigali.com and rutavogerwa.j@kfhkigali.com by Friday, November 18, 2022 at 23:59 Central Africa Time (CAT). Please note that this letter is not a binding contract.

Done in Kigali, Rwanda on November 9, 2022

Ms. Kara Neil Executive Secretary King Faisal Hospital Rwanda Foundation





TECHNICAL SPECIFICATIONS: SUPPLY AND INSTALLATION OF OPHTHALMOLOGY EQUIPMENT

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Summary of Items

Item No.	Item Description	Quantity
1	Auto-kerato-refractometer with tonometer	1
2	Slit Lamp with Applanation tonometer	1
3	Ophthalmic Refraction Unit/Workstation	1
4	Trial Lens Set	1
5	Frames	2
6	78D double aspheric lens	1
7	Applanation tonometer	1

Technical Specifications

Item 1: Auto-kerato-refractometer with tonometer

- 1) Refraction measurement specifications:
 - a) Measuring range:
 - b) Spherical refractive power:
 - c) Cylindrical refractive power:
 - d) Astigmatic axis:
 - e) Minimum pupil diameter:
 - f) PD measurement range:
 - g) Target fixation:
- 2) Keratometry measurement specifications:
 - a) Measuring range:
 - b) Corneal curvature radius:
 - c) Corneal refractive power:
 - d) Corneal astigmatic power:
 - e) Astigmatic axis:
- Auto fog system cations: 5.00mm to 13.00mm (0.01mm step)

-30D to +25D (0.12D/0.25D steps)

0D to \pm 12D (0.12D/0.25D steps)

- 67.50D to 25.9612D (0.12D/0.25D steps)
- 0D to ± 12D (0.12D/0.25D steps)

 0° to 180° (1° steps)

20 to 85mm (1mm step)

2.0mm

- 0° to 180° (1°/5° steps)
- 3) Intraocular Ocular Pressure Measurement
 - a) Measuring range:

1 to 60mmHg (1mmHg step)



b) Corneal Thickness Measurement Measuring range 0.400mm to 0.750mm (0.001mm step)

4) Others

- a) Monitor: Tiltable LCD with touch panel
- b) Chinrest travel distance Up/down: 68mm
- c) Interface:
- d) Autotracking:
- e) Printer:
- f) Power Supply:

Item 2: Slit Lamp Biomicroscope with Applanation tonometer

1. Microscope

- a. Type: Slit Lamp Binocular Biomicroscope (Galilean)
- b. Angle of optical axis: The offset of the left and right optical axes should be within 40 minutes in up and down direction separately and within 1° in outward. However, a Binocular Biomicroscope of which optical axes of left and right oculars are not parallel is excluded.
- c. Control of magnification: Should be in steps
- d. Objectives: Paired 1x and 1.6x Objective lens focal length(100-125mm)
- e. Eye Pieces: 10x and 16 x
- f. Inter-pupillary distance: 50mm to 75mm
- g. Magnification and field of view: Eye Piece Objective Magnification field
 - i. 10x 1 x 18mm,15mm, 11 mm
 - ii. 16 x 1.6 x 9mm, 4mm, 2mm

2. Slit Illumination Section

- a. Slit image width adjustment: 0 to 8mm step less
- b. Slit image length adjustment: 0-10mm continuous
- c. Diameter of diaphragm approx. or Diameter of illuminate field: 8mm, 5mm, 3mm, 2mm, 1mm and 0.2Mm
- d. Angle of Slit (rotation): +1-900
- e. Tilt of slit (decentration): To horizontal 0° 15° To vertical 0° 20° (steps to be stated by the bidders)
- f. Filters: Cobalt Blue: Red free and gray (neutral density) Polarizer or other N.D filters may be stated (Optional
- g. Light Source: LED Lamp
- h. Intensity Control of Illumination: Low, Medium, and High
- i. The unit shall be capable of being stored continuously in ambient temperature of 0 -50 deg C and relative humidity of 15-90%
- j. The unit shall be capable of operating in ambient temperature of 20-30 deg C and relative humidity of less than 70%
- k. Power Supply: 240V AC, 50HZ

Item 3: Ophthalmic Refraction Unit/Workstation

This is the table that will hold the slit lamp and auto kerato refractometer.

- 1. Seat minimum height: 550 mm
- 2. Seat maximum height: 710 mm
- 3. Up & down stroke: 160 mm
- 4. Seat rotation: 0 to 180°
- 5. Back & forward movement: 95° to 175°

LAN: USB: Wireless LAN (WLAN) X-Y-Z directions Thermal printer 240V AC, 50HZ



- 6. Load Lifting: 200 kg
- 7. Motorized adjustments of the ophthalmic chair.
- 8. Power Supply: 240V AC, 50HZ

Item 4: Trial Lens Set

- 1. Range of PD adjustments: PD of both eyes: 48 ~ 80mm; left or right PD: 24 40mm.
- 2. Minimum graduated value: 1mm
- 3. Dividing disc axial graduation:
 - a. Left dividing disc:120°~0°~135°
 - b. Right dividing disc:45°~180°~60°
 - c. Inner diameter of lens frame:32.5mm.
- 4. Degree of lens rotating around optical axis in the lens frame:360°
- 5. Non parallelism between lens' optical axis and lens frame's geometric axis: ≤2.5°
- 6. Non-concentricity between lens' optical center and lens frame geometric center:

≤0.5mm

- 7. Displacement of lens in relation to position of lens frame geometric center: ≤0.3mm
- 8. Range of nose rest adjustment: Length:0 ~ 14mm; angle:0° ~ 30°
- 9. Range of left or right lens frame leg's length adjustment:98 ~ 135mm.
- 10. Maximum interval between left and right lens frame legs:200mm
- 11. Material: lightweight metal or plastic

Item 5: Trial Frames (1 pediatric and 1 adult) Specifications:

- 1. Temple length 100-137mm
- 2. PD adjustment 24 -37mm on each side in 1mm steps
- 3. Elevation distance adjustment 15mm
- Vertex distance adjustment range 18mm, calibrated +/-5mm by 1mmsteps from 12mm vertex
- 5. Weight not more than 77g
- 6. Separate PD adjustments for each eye
- 7. Horizontal and vertical bridge adjustments
- 8. Individual adjustments for temple length and angle
- 9. 3 lens holders for each eye
- 10. Adjustment for rotating cylinders to correct axis
- 11. Scales with easy-to-read numerals

Item 6: 78D double aspheric

- 1. Field of View Distance 81° / 97°
- 2. Image Magnification 0.93x
- 3. Laser Spot Magnification x1.08
- 4. Working Distance x8 mm

Item 7: Applanation tonometer

1. To fit the slit lamp type Topcon SL-D4