

ANNEX1: SPECIFICATION SHEET

SECTION 1

GENERAL INFORMATION

NAME	Synoptophore
CATEGORY	Medical / Ophthalmology Equipment
CLINICAL PURPOSE	A synoptophore is an ophthalmic instrument used for the diagnosis and treatment of binocular vision disorders, as well as for viewing, analyzing, and treating anomalies related to eye alignment and coordination.

TECHNICAL SPECIFICATION

TECHNICAL SPECIFICATION	<p>1. General Functions:</p> <ul style="list-style-type: none"> Combined capabilities for diagnosis, treatment, simultaneous viewing, syncretic viewing, solid viewing, and afterimage assessment. <p>2. Optical Features:</p> <ul style="list-style-type: none"> Equipped with a pair of Haidinger's Brushes and 20 pairs of pictures at various angles. Advanced semi-transparent and semi-reflective viewfinder for convenient observation by oculists. Utilizes advanced LED luminophor, offering even lighting, low heat emission, and a long lifespan. Pictures feature a new design, are resistant to breakage, and have a long lifespan. <p>3. Coruscation (Flashing) Features:</p> <ul style="list-style-type: none"> Manual or automatic coruscation (flashing) options for the doctor, with precise frequency control. Adjustable coruscation frequency: Ten-step, 30-300 times/minute. Range of automatic coruscation per cycle: <ul style="list-style-type: none"> 1/4 on 3/4 off 1/2 on 1/2 off 3/4 on 1/4 off Types of automatic coruscation: <ol style="list-style-type: none"> Both left and right turned on or off simultaneously. Left and right turned on or off alternately. One on and the other off. One on or off while the other can be turned on or off. <p>4. Magnification and Viewing Field:</p> <ul style="list-style-type: none"> Magnification: 1.65X. Diameter of visual field: $\geq 56\text{mm}$. <p>5. Lighting Specifications:</p> <ul style="list-style-type: none"> Red light wavelength: $\lambda=640\text{nm}$.
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	<ul style="list-style-type: none"> • Darkroom illumination: LED luminophor with a symmetrical design. <p>6. Adjustability and Movement:</p> <ul style="list-style-type: none"> • Left and right tubes around the erect axis: Concourse 50°, radiation 40°. • Left and right tubes around the horizontal axis: ±30°. • Vertical adjustment of pictures for left and right according to the axis: ±10. • Vertical movement of pictures for left and right around the optical axis: ±20°. • Adjustable range of pupil distance: 45~75mm. <p>7. Haidinger's Brush Adjustment:</p> <ul style="list-style-type: none"> • Adjustable Haidinger's Brush speed: 50-100 rounds/minute. <p>8. Technical Specifications:</p> <ul style="list-style-type: none"> • Coruscation forms: Manual or automatic. • The machine should include an advanced LED luminophor to ensure even light distribution, low thermal emission, and long lifespan. <p>9. Additional Requirements:</p> <ul style="list-style-type: none"> • User manual and training materials for operating the synoptophore. • Warranty and technical support for a minimum of five years. • Installation and calibration services to ensure optimal performance. <p>10. Delivery and Installation:</p> <ul style="list-style-type: none"> • The supplier must provide delivery and installation services. • Installation must include initial calibration and verification of equipment functionality. • Application and Service Training must be provided. <p>11. Compliance:</p> <ul style="list-style-type: none"> • The equipment must comply with all relevant medical device regulations and standards. <p>12. Tender Submission:</p> <ul style="list-style-type: none"> • Detailed specifications and brochures of the proposed equipment. • Estimated delivery and installation timeline. <p>Note: The successful bidder must ensure that the equipment is fully operational and meets all specified requirements upon delivery and installation.</p>
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SECTION 2

NAME	Eye Chart Projector (Appasamy ACP-E30X-CS or Equivalent)
CATEGORY	Medical/ Ophthalmology Equipment
CLINICAL PURPOSE	The eye chart projector should be a reliable and versatile tool for eye examinations, featuring advanced optics and user-friendly controls. It should provide a diverse range of visual acuity charts to ensure comprehensive testing capabilities in ophthalmic settings. The design should be compact and efficient, making it ideal for eye care professionals seeking a high-quality, space-saving solution for precise vision assessments.

TECHNICAL SPECIFICATION

TECHNICAL SPECIFICATION	<ol style="list-style-type: none"> 1. Image Quality <ul style="list-style-type: none"> • The projector should deliver high-quality, bright, and clear images for accurate vision testing. 2. Faster and Silent Operation: <ul style="list-style-type: none"> • The operation of the projector should be quick and silent to ensure a smooth and efficient examination process. 3. Remote Operated: <ul style="list-style-type: none"> • The device should include a remote control for easy operation and convenience during examinations. 4. Decimal Notation: <ul style="list-style-type: none"> • The projector should support decimal notation for visual acuity measurements. 5. Large Choice of Optotypes: <ul style="list-style-type: none"> • A variety of optotypes should be available for different diagnostic needs. 6. Different Masking Options: <ul style="list-style-type: none"> • The projector should offer different masking options including single, vertical, and horizontal masking. <p>Technical Specifications:</p> <ol style="list-style-type: none"> 1. Product Name: <ul style="list-style-type: none"> • Eye Chart Projector 2. Retraction Distance: <ul style="list-style-type: none"> • 10 ft (3 m) to 26.5 ft (8 m) 3. Projection Distance: <ul style="list-style-type: none"> • Minimum 7.4 ft (2.3 m) 4. Projection Magnification: <ul style="list-style-type: none"> • 30X (in 5m refraction) 5. Number of Test Charts: <ul style="list-style-type: none"> • At least 31 standard test charts 6. Masking Options: <ul style="list-style-type: none"> • Red/Green • Polarization
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	<ul style="list-style-type: none"> • Single horizontal lines • Single vertical lines • Single letters • Single numbers <p>7. Mask Change-over Time:</p> <ul style="list-style-type: none"> • 1 frame/0.02 sec <p>8. Chart Change-over Time:</p> <ul style="list-style-type: none"> • 1 frame/0.03 sec <p>11. Tilt Range of Projector:</p> <ul style="list-style-type: none"> • Adjustable to suit different examination setups <p>12. Automatic Switch-Off:</p> <ul style="list-style-type: none"> • Automatic switch-off after 5 minutes without operation <p>13. Projection Lamp:</p> <ul style="list-style-type: none"> • 3.2V LED lamp <p>14. Program Steps:</p> <ul style="list-style-type: none"> • Maximum 30 steps available <p>15. Line Voltage:</p> <ul style="list-style-type: none"> • 230V <p>16. Line Frequency:</p> <ul style="list-style-type: none"> • 50 Hz <p>17. Line Fuse:</p> <ul style="list-style-type: none"> • 4A, slow blow <p>Additional Requirements:</p> <p>Warranty and Technical Support:</p> <ul style="list-style-type: none"> • A minimum of two-year warranty and technical support should be included. <p>Installation and Calibration Services:</p> <ul style="list-style-type: none"> • Installation and initial calibration services should be provided to ensure optimal performance of the equipment. <p>Delivery and Installation:</p> <ul style="list-style-type: none"> • The supplier must provide delivery and installation services. • Installation must include initial calibration and verification of equipment functionality. <p>Compliance:</p> <ul style="list-style-type: none"> • The equipment must comply with all relevant medical device regulations and standards. <p>Tender Submission:</p> <ul style="list-style-type: none"> • Detailed specifications and brochures of the proposed equipment. • Estimated delivery and installation timeline. <p>Note: The successful bidder must ensure that the equipment is fully operational and meets all specified requirements upon delivery and installation.</p>
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SECTION 3

NAME	Corneal Topography Machine
CATEGORY	Medical/ Ophthalmology Equipment
CLINICAL PURPOSE	Corneal topography is a special photography technique that maps the surface of the clear, front window of the eye (the cornea). It works much like a 3D (three-dimensional) map of the world, that helps identify features like mountains and valleys.

TECHNICAL SPECIFICATION

TECHNICAL SPECIFICATION	<p>Equipment Specifications:</p> <ol style="list-style-type: none"> 1. Corneal Topography Machine: <ul style="list-style-type: none"> • High-resolution imaging for detailed corneal mapping. • 3D reconstruction capability to accurately depict corneal features. • User-friendly interface for easy operation and analysis. 2. Color Printer: <ul style="list-style-type: none"> • High-quality color printing for detailed image output. • Compatibility with corneal topography software for direct printing of maps and reports. 3. LCD Monitor: <ul style="list-style-type: none"> • Minimum screen size: 21 inches. • High resolution for clear and accurate display of corneal maps. 4. Mouse: <ul style="list-style-type: none"> • Optical or laser mouse for precise control. • USB connectivity. 5. Keyboard: <ul style="list-style-type: none"> • Standard keyboard layout. • USB connectivity. 6. Instrument Table: <ul style="list-style-type: none"> • Adjustable height to accommodate different user preferences. • Sturdy construction to support the corneal topography machine and accessories. 7. Computer Specifications: If any <ul style="list-style-type: none"> • Advanced Processor • Latest operating system • Hard Disk: 1Tb • USB Ports: Sufficient ports to connect peripherals (e.g., printer, mouse, keyboard). 8. Software Requirements: <ul style="list-style-type: none"> • Pre-installed corneal topography software.s • Capability to export images and data in standard formats (e.g., JPEG, PDF). 9. Additional Requirements: <ul style="list-style-type: none"> • User manual and training materials for operating the corneal topography
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	<p>machine and associated software.</p> <ul style="list-style-type: none">• Warranty and technical support for a minimum of five years.• Installation and calibration services to ensure optimal performance.• UPS must be provided (Must have at least 30 minutes back up). <p>10. Delivery and Installation:</p> <ul style="list-style-type: none">• The supplier must provide delivery and installation services.• Installation must include initial calibration and verification of equipment functionality.• Application and Service training must be provided. <p>11. Compliance:</p> <ul style="list-style-type: none">• The equipment must comply with all relevant medical device regulations and standards. <p>12. Tender Submission:</p> <ul style="list-style-type: none">• Detailed specifications and brochures of the proposed equipment.• Estimated delivery and installation timeline. <p>Note: The successful bidder must ensure that the equipment is fully operational and meets all specified requirements upon delivery and installation.</p>
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