

# SINDH INSTITUTE OF OPHTHALMOLOGY & VISUAL SCIENCES (SIOVS), HYDERABAD

@ Eye Hospital Journalist Colony, Hyderabad

Phone: +92-22-9210351-2, Fax: +92-22-2106802

Website : [www.siovs.edu.pk](http://www.siovs.edu.pk) , E-mail: [info@siovs.edu.pk](mailto:info@siovs.edu.pk)

**(Tender Form Fees Rs.500/-(Non Refundable)**

**TENDER FORM**

**TENDER INQUIRY NO. 03 /2016-17**

**DUE ON 01-04-2017**

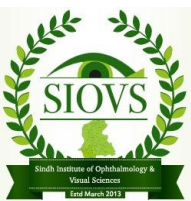
## **PURCHASE OF MACHINERY & EQUIPMENTS FOR THE YEAR 2016-17**

**Time of issuance of Tender form upto 31-03-2017 at 02:00 P.M**

**Time of Submission of Tender on 01-04-2017 at 11.00 A.M**

**Time of Opening of Tender on 01-04-2017 at 11.30 A.M**

S.No.	Name of Equipment	Qty	Model	Make of Origin	Unit Price In C&F (In Words & Figures)	Unit Price In FOR (In Words & Figures)
01	<p><b>PATTERN LASER</b></p> <ul style="list-style-type: none"><li>• <b>Green 532 nm</b> for treating retinal pathology with pan retinal photocoagulation.</li><li>• Provides auto manipulation and scan modes,</li><li>• The auto manipulation mode for repeated laser emission with variable interval times and conventional coagulation setting in a selectable scan pattern.</li><li>• 14 preprogrammed scan patterns to allow treatment of varying retinal pathology.</li><li>• The spacing between spots for each pattern can be changed and the pattern can be rotated (15° increments) easily using an LCD touch screen.</li><li>• The scan spot size is continuously variable from 100 to 500 µm (50 to 500 µm in single mode).</li><li>• The color LCD touch screen has an intuitive menu clearly indicating scan patterns and photocoagulation data</li><li>• 10 sets of photocoagulation data (color, power output, emission time, and interval time)</li></ul> <p>Laser type                      Solid state laser, Diode laser Wavelength                  Green : 532 nm Power output                 Green : 50 to 1700 mW *1 Output type                   Continuous wave Emission time                0.01 to 1.00 second, 2.00 seconds, 3.00 seconds *2 Interval time                 0.05 to 1.0 second *3 Aiming laser                 Red diode, 670 nm, max. 0.4 to 0.8 mW Cooling system               Air-cooled</p>	01				



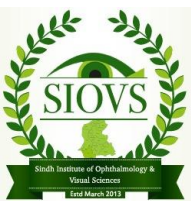
# SINDH INSTITUTE OF OPHTHALMOLOGY & VISUAL SCIENCES (SIOVS), HYDERABAD

@ Eye Hospital Journalist Colony, Hyderabad

Phone: +92-22-9210351-2, Fax: +92-22-2106802

Website : [www.siovs.edu.pk](http://www.siovs.edu.pk) , E-mail: [info@siovs.edu.pk](mailto:info@siovs.edu.pk)

	<b><u>SCAN / SINGLE DELIVERY SPECIFICATION</u></b> Spot size 100 to 500 $\mu\text{m}$ (scan mode & auto manipulation mode) 50 to 500 $\mu\text{m}$ (single mode) Emission pattern Single Square (2x2, 3x3, 4x4, 5x5), Circle, Arc (3/4 circle, 1/2 circle, 1/4 circle), Triple arc, Macular grid, Triangle, Line, Curve <ul style="list-style-type: none"> <li>• Complete with Original Table</li> <li>• Can be upgraded with LIO use</li> <li>• Can be upgraded with Endo use</li> <li>• Can be upgrade with Yellow &amp; Red</li> </ul>					
02	<b>CRYOPEXY MACHINE</b> <ul style="list-style-type: none"> <li>• Microprocessor Automated set-up and operation</li> <li>• Electronically controlled for quick repeated freeze /Defrost cycle.</li> <li>• Automatic purge ensures internal clearing of residual moisture.</li> <li>• Nitrous oxide (N<sub>2</sub>O) or Carbon Di-oxide (CO<sub>2</sub>) driven</li> <li>• External filter assures consistent performance and reliability</li> </ul> <b>Console Feature:</b> <ul style="list-style-type: none"> <li>• <b>On-Screen icons:</b> No Guesswork involved</li> <li>• <b>System Status Icon:</b> Light indicates “Ready” to freeze ,light indicates “Busy” when system is performing internal function, Acoustic signal</li> <li>• <b>Time Display:</b> Time elapsed when footswitch is pressed , shows cumulative freeze time for current probe.</li> <li>• <b>Gas pressure:</b> Status check for gas pressure function</li> <li>• <b>Tip freezing indicator:</b> Monitors probe function when probe is freezing optimally.</li> </ul>	01				
03	<b>Specular Microscope</b> includes a unique function to capture par central images. The par central images are captured at eight points, 5° visual angle within a 0.25 mm x 0.55 mm. 16 images are captured and automatically sorted based on quality and the ability to be analyzed. The optimal image for analysis is indicated with orange highlight. Rapid analysis increases the efficiency of the practice. Once the image is selected, complete analysis is automatically performed in two seconds	01				



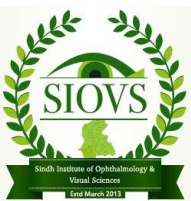
# SINDH INSTITUTE OF OPHTHALMOLOGY & VISUAL SCIENCES (SIOVS), HYDERABAD

@ Eye Hospital Journalist Colony, Hyderabad

Phone: +92-22-9210351-2, Fax: +92-22-2106802

Website : [www.siovs.edu.pk](http://www.siovs.edu.pk) , E-mail: [info@siovs.edu.pk](mailto:info@siovs.edu.pk)

	<p>The analysis screen allows visualization of the endothelial cells in four modes, trace, photo, area, and apex.</p> <p>comprehensive analysis including two histograms of variation in shape (pleomorphism) and size (polymegathism).</p> <p>3-D auto tracking, auto shot, and tilttable touch screen provide ease of use.</p> <p>The built-in printer for an instant printout of the analyzed data and images of the endothelial cells.</p> <p>LED light source for flash, which reduces power consumption,</p> <p>Tilttable 8.4-inch color LCD touch screen</p>					
04	<p><b>Hematology Analyzer</b></p> <p><b>Parameters:</b> 19: WBC, LY%, MO%, GR%, LY, MO, GR, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-SD, RDW-CV, PLT, PCT, MPV, PDW</p> <p><b>Reagents:</b> 1 hemolyzing reagent (cyanide free), 1 diluent, 2 detergents</p> <p><b>Reproducibility(CV%):</b> WBC:&lt;2.0,RBC:&lt;1.5,HGB:&lt;1.5,MCV:&lt;1.0, PLT: &lt; 4.0</p>	01				
05	<p><b>Water Bath</b></p> <p>Temperature Range: Ambient +5°C to 99°C</p> <p>Working Access: (L x W x D) 5" x 10.8" x 6"</p> <p>Overall Dimensions: (L x W x H) 14.5" x 12" x 10.5"</p>	01				
06	<p><b>Auto Pipettlor / Juster 0.5-50ul</b></p> <p>Eppendorf /Thermo / Discovery</p>	01				
07	<p><b>AUTOREFRACTOKERATOMETER</b></p> <ul style="list-style-type: none"> <li>• ACCURATE REFRACTION MEASUREMENT</li> <li>• SUPER LUMINESCENT DIODE AND HIGHLY SENSITIVE CCD</li> <li>• OPTIMAL FOGGING TO MINIMIZE ACCOMMODATION</li> <li>• ACCOMMODATION MEASUREMENT WITH ARTIFICIAL INTELLIGENCE ALGORITHM</li> <li>• ASSESSMENT FOR INTERMEDIATE OR NEAR VISION LENS</li> </ul>	01				



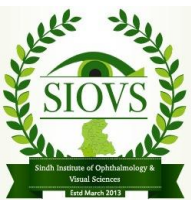
# SINDH INSTITUTE OF OPHTHALMOLOGY & VISUAL SCIENCES (SIOVS), HYDERABAD

@ Eye Hospital Journalist Colony, Hyderabad

Phone: +92-22-9210351-2, Fax: +92-22-2106802

Website : [www.siovs.edu.pk](http://www.siovs.edu.pk) , E-mail: [info@siovs.edu.pk](mailto:info@siovs.edu.pk)

	<ul style="list-style-type: none"> <li>• KERATOMETRY MEASUREMENT WITH MIRE RING</li> <li>• 3-D AUTO TRACKING AND AUTO SHOT</li> <li>• TILTABLE COLOR LCD SCREEN</li> <li>• HIGH SPEED PRINTER WITH EASY LOADING &amp; AUTO CUTTER</li> <li>• VA MEASUREMENT WITH BUILT-IN CHARTS AND LENSES</li> <li>• RECALL FUNCTION FOR INSTANT VISION COMPARISONS</li> <li>• CONTRAST AND GLARE TEST</li> <li>• RETROILLUMINATION IMAGE AND NIDEK CATARACT INDICES</li> </ul> <p><b><u>AUTO KERATOMETER</u></b></p> <p>Measurement rangeCurvature Radius: 5.00 to 13.00 (0.01mm increment) Refractive Power: 25.96 to 67.50D (n=1.3375) (0.01/0.12/0.25D increment) <b>Cylindrical Power: 0 to ±12.00D</b> (0.01/0.12/0.25D increment) Axis: 0 to 180° (1° / 5° increments) Sagittal Measurement 25° each from center Super side, inferior side, temporal side, nasal side)</p> <p><b><u>REFRACTION</u></b></p> <p>Measurement range<b>Sphere</b> -30.00 to +25.00 D (VD = 12 mm) 0.01/ 0.12 / 0.25 D increments<b>Cylinder</b> 0 to ±12.00 D (0.01 / 0.12 / 0.25 D increments)<b>Axis</b> 0 to 180° (1° / 5° increments)Minimum measurable pupil diameter ø2 mmPD measurement range30 to 85 mm (1 mm increments) Complete with Local Motorized Stand</p>					
08	<p><b>A-Scan</b></p> <ul style="list-style-type: none"> <li>• Large Touch screen operation with high-resolution backlit color LCD.</li> <li>• Complete measurement and calculation record within seconds.</li> <li>• Capture mode automatic and manual.</li> <li>• Ability to store up to five different user profiles.</li> <li>• USB for EMR archiving, SD disk for patient data storage.</li> <li>• A-Scan 10mm Calibration cylinder.</li> <li>• 10 Lens Database. • Preger Shell for water immersion technique.(optional)</li> <li>• Portable and compact weighing, Built in thermal printer.</li> </ul>	01				



# SINDH INSTITUTE OF OPHTHALMOLOGY & VISUAL SCIENCES (SIOVS), HYDERABAD

@ Eye Hospital Journalist Colony, Hyderabad

Phone: +92-22-9210351-2, Fax: +92-22-2106802

Website : [www.siovs.edu.pk](http://www.siovs.edu.pk) , E-mail: [info@siovs.edu.pk](mailto:info@siovs.edu.pk)

	<b>SPECIFICATION</b> Spring loaded Soft touch probes. A-probe frequency: 10 MHz. Measurements: ACD, Lens, Vitreous, Axial, Standard Deviation, Individual Zone Velocity. Examination modes: Direct contact, Immersion, Dense cataract, Aphakic, Pseudophakic, 4-Gate Manual. IOL programs: Regression II, Theoretic T, Binkhorst, Holladay, Hoffer Q, Haigis. Post refractive formulas: Latkany Myopic, Latkany Hyperopic & Aramberri Double-K. Measurements limits: AXL- 18-45. Clinical accuracy: $\pm 0.10$ mm. Electrical accuracy: $\pm 0.023$ mm Average and standard deviation computed for each reading. Measurement review mode. Primary voltage: AC90 ~ 250V. Power frequency: 50/60Hz. Maximum power consumption: 60W. (Country of origin USA/UK/JAPAN/GERMANY)					
09	<b>Shaker for CP Bottles</b>	01				

NATIONAL TAX No.....

SIGNATURE .....

GST No: .....

NAME OF CONTRACTOR .....

C.N.I.C No: .....

ADDRESS .....

CELL NO .....

## INSTRUCTIONS.

1.The tender should be accompanied with pay order / demand draft of 2.5% of quoted amount as security Deposit in the name of Sindh Institute of Ophthalmology & Visual Sciences (SIOVS) Hyderabad.

2.The Income Tax / GST/SST will be deducted according to rules of Govt: of Sindh / Pakistan

3.The tenderer will be responsible to deliver the tendered items on his own cost at SIOVS HYDERABAD

4.In case of short/late supply it will be purchased from open Market and difference if any will be recovered from the Contractor.

5.Conditional/ Incomplete Tenders will not be accepted.

6.Sample of all dry items should be provided at the time of opening of tender otherwise tender will be rejected.



# SINDH INSTITUTE OF OPHTHALMOLOGY & VISUAL SCIENCES (SIOVS), HYDERABAD

@ Eye Hospital Journalist Colony, Hyderabad

Phone: +92-22-9210351-2, Fax: +92-22-2106802

Website : [www.siovs.edu.pk](http://www.siovs.edu.pk) , E-mail: [info@siovs.edu.pk](mailto:info@siovs.edu.pk)

---

7. For alternate offer separate tender purchase receipt must be enclosed.
8. The tenderer should be fulfilling all requirements as per Government rules.
9. Minimum Two(02) Hundred Thousands turn over with Bank Certificate.
10. Minimum Three(03) Years Experience in relevant field with documentary proof.
11. Three Years(03) Income Tax Return (Photo Copy Must Enclosed).

**Director,**  
Sindh Institute of Ophthalmology  
& Visual Sciences, Hyderabad