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

**PURCHASE OF MACHINERY EQUIPMENTS FOR THE YEAR 2017-18**

**TENDER INQUIRY NO. 01/2017-18 DUE ON 14-02-2018**

**Time of issuance of Tender form upto 13-02-2018 at 02:00 P.M**

**Time of Submission of Tender on 14-02-2018 at 11.30 A.M**

**Time of Opening of Tender on 14-02-2018 at 12.00 Noon**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S.No.** | **Description** | **Qty** | **Model** | **Make of Origin** | |  | | --- | |  |   **Unit Price In C&F (In Words & Figures)** | |  | | --- | |  |   **Unit Price In FOR (In Words & Figures)** |
| 01 | **Yag Laser**   * Laser Wavelength : 1064 nm * Optical Break down : Typically 2.5 mJ in air * Pulse Length: <4ns (typically 2-3ns) * Mode of Operation Q-Switched * Max. Laser Energy: Singly Pulse : Typically 10 mJ   Double Pulse : Typically 23 mJ  Triple Pulse : Typically 35 mJ   * Aiming beam: Diode approx. 670nm   Power 5 uW-150uW  4-point aiming beam focusing system   * Focus Shift: Variable +150um;0;-150um * Electrical connection 100-240v, 50-60 Hz * Complete with Original Motorized Table   **Made: USA/ Europe /Japan** | **01** |  |  |  |  |
| 02 | Slit Lamp with Applanation Tonometer  * Three step magnification changer with converging binocular tube * Slit beam Tilting System for better gonioscope and fundus observation * Bright Halogen illumination   **Microscope Specification**   * Microscope Type : Galilean type * Magnification : Drum, 3-Step Magnification * Magnification Step: 10 X , 16X , 25X * Eye Piece 12.5X * Magnification Ratio   Field of View 10X(22.5mm)  16X(14.1mm)  25X(8.8mm)  **Slit Illumination**   * Light Source 6V 20W Halogen lamp * Slit Width Continuous from 0 to 9mm (Circle at 9mm( * Slit Length Continuous from 1 to 8 mm * Slit Angle 0 to 180 degree with Horizontal scanning capability * Filters Blue Filter, red free filter, ND filter (13% transmission)   UV cut Filter (Normal use),IR cut filter (normal use)   * Primary Input AC 100-220 50/60 Hz * Power consumption 80VA   **Made: USA/ Europe /Japan** | **04** |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 03 | **Topography**  **Rotating Scheimpflug Camera for anterior segment tomography includes:**   * XYZ moveable base * Basic software package * Patient data management Software , Network compatible * Head and chinrest * Windows based software , network compatible   **Basic Software**   * Scheimpflug image * Scheimpflug image overview * General Overview * Corneal topography , ant, & post * Pachumetry , absolute & relative * Elevation map, ant & post * 4 map refractive * Virtual eye * Iris image & automatic HWTW * 3D chamber analyzer * Tomography * Topometric , Topography based keratoconus detection * Compare 2 exams * compare 2 exams Scheimpflug image   **With**   * Module Belin / Ambrosio Enhanced Ectasia * Electrically height adjustable table   **Along With**   * Compatible operating PC   **Made: USA/ Europe /Japan** | **01** |  |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 04 | **Up gradation of OCT (OCT Angio)**   * Eye tracking during capture of OCT angiography * Invisible OCT scanning light and high imaging speed of 100,000 AScan/sec * Utilizing a 1 Micro Wavelength swept source OCT allows for deeper penetration of OCT scan into the retina and choroid enabling you to collect more data than conventional SD OCT System. * OCT angiography scanning area of 3 mm x 3 mm, 4.5mm x 4.5mm, or 6 mm x 6mm * IMAGEnet 6 viewer of OCT Angiography data for simultaneous visualization of multi modal images (OCT Angiography , OCT BScan , and fundus images)   **Made: USA/ Europe /Japan** | **01** |  |  |  |  | |
| 05 | **A-Scan**  Spring loaded soft touch probe   * A-probe frequency 10MHz * Measurement ACD, lens, vitreous ,axial, standard Deviation, individual Zone, Velocity * Examination modes: Direct contact , immersion , dense cataract, aphakin, pseudophakic ,   4-GateManual   * IOL Program RegressionII, Theoretic T, Binkhorst, Holladay, Hoffer Q, Haigis * Post Refractive formulas Latkany Myopic, Latkany Hyperopic and Aramberri Double -K * Measurement limits AXL-15-45 * Clinical accuracy ±0.10mm * Electrical accuracy ±0.023mm   Average and standard deviation computed for each reading  Measurement review mode   * Primary Voltage AC90 ̴ 250V * Power frequency 50/60 Hz * Maximum power consumption 60W   **Made: USA/ Europe /Japan** | **01** |  |  |  |  | |
| 06 | **Auto Refraction Keratometer**  **Refractometer**   * Sphere range -25D to + 22D (0.12 D /0.25D) * Cylinder range 0D to ±10D (0.12 /0.25) * Axis Range 00  to 1800 (10 or 50 steps)   Pupil diameter Ø2.0mm  **Keratometer**   * Corneal Curvature radius 5.00 to 10.00 mm (0.01mm) * Refraction index 1.3375 * Corneal refraction 67.5 D to33.75 D (0.12D/0.25D) * Corneal astigmatism 0D to ± 10D (0.12 D / 0.25D) * Corneal astigmatism axial angle 00 to 1800 (10 and 50 steps)   **General**   * PD measurement 20 ̴ 85 mm (0.5mm step) * Output RS-232C/USB (Import )/ LAN (Export) * Power input 100 ̴ 240 v AC, 50/60 Hz * Power consumption 30-70 V/A   **Made: USA/ Europe /Japan** | **01** |  |  |  | |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 07 | | **Trail Frame (Pediatric + Adult )**   * For checking of refraction of kids and adults   **Made: USA/ Europe /Japan** | **05** |  |  |  |  |
| 08 | **Hand held auto refraction kerameter**   * Pupil Zone Imagine Method * Super Luminesscent Diode (SLD) and highly Sensitive CCD * Cataract Measurement model * Quick measurement model * Full Graphic LCD with 3.5-inch color screen * Supine position mode * Axis correction function * Pupil size measurement   **Auto Refractometer**   * Measurement Range Sphere -20.00 to +20.00 D (VD=12mm)   Cylinder 0 to 12.00 D (0.12/0.25 D increment)  Axis 0 to 1800 (10 / 50 increment)   * Minimum measurable pupil diameter Ø2 mm   **Auto keratometer**   * Measurement rage Curvature radius 5.00 to 13.00 mm(0.01mm increment)   Refractive power 25.96 to 67.50D(0.12/0.25D increment)  Cylindrical Power 0 to 12.00D (0.12/0.25D Increment) Axis 0 to 1800 (10 / 50 increment)   * Segittal Measurement 250 each from the center (Super side, inferior side, temporal side nasal side) * Pupil size measurement range 1.0 to 10.0mm (0.1mm increment) * Fixation Target Scenery or children's * Display 3.5 inch color LCD * Interface Wireless LAN (WLAN): 1 inch (Wireless LAN (WLAN)-equipped model only \*2   **Power Specification**   * Battery Pack Lithium-ion battery (7.2V 1800 mAh)   **Made: USA/ Europe /Japan** | | **02** |  |  |  |  |
| 09 | **PV 16 Color Vision Test**   * Double Set with Travel Tube * The Panel 16 Color Vision Test sets display the same hues as the Farnsworth D-15 * The diameter of the stimulus area is 13" (3.3cm) * Dark gray restriction rings with an opening of 0.47" (1.2cm) I diameter * Travel tube comes with black cloth   **Made: USA/ Europe /Japan** | | **01** |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 10 | **Ophthalmoscope and Retina Scope with Universal Charger and Desk set**  **Ophthalmoscope**   * Halogen HPX TM  Lamp * Coaxial optics * Cobalt Blue Filter * Polarizing filter * Sealed optics * Red free filter * 28 focusing lenses with a range of -25 to +40 diopters   **Ophthalmoscope**   * Makes refraction easier than over by producing one of the bright, Sharp, clean streaks available * 2.8 X the brightness * Superior streak quality enables easier and quicker refractions even in patients with small pupils. * Crossed linear polarizing filter * External focusing sleeve * Sealed optics   **Universal Charger and Desk set**   * Compact , portable unit * Colored LEDs indicated power to the unit and that handles are charging * Compact for convenience and mobility   **Made: USA/ Europe /Japan** | **03 Each** |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | **90D Lens**   * The original volk 90-D lens started the slit lamp fundus examination revolution. * Small 26mm diameter ring design which is outstanding for dynamics fundoscopy. * Small pupil capabilities   **Made: USA/ Europe /Japan** | **05** | |  | |  | |  |  |
| 12 | **Tonopen**   * Rapid and accurate IOP measurement * Small and light weight * Transducer Micro Strain Gauge * Range of measurement 5- 55mmHg * Easy to use Double sided LCD Display Weight 71g   **Made: USA/ Europe /Japan** | **02** | |  | |  | |  |  |
| 13 | **Ophthalmic Surgical Table**   * Hammoc with three movements (Seat / leg/ black) * Head rest / hand rest movement * Back to zero command * Table to chair and chair to table auto command * Wheels with brake * Minimum -Maximum heights 22.8 inch -34.2 inch * Fully control with foot switch * Foot switch lock System * Easy mobile services for paralyses patients * Related Voltage 127/220 volts 50/60 Hz   **Made: Brazil / USA/ Europe /Japan** | **04** |  | |  | |  | |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 14 | **Ophthalmic Surgical Stool**   * Hand rest / back seat movement * Wheels with brake * Minimum - maximum height 450mm-650mm * Up and Down control on foot motorized * Related Voltage 220V   **Made: Brazil / USA/ Europe /Japan** | **04** |  |  |  |  |
| 15 | **Electrolysis and cutting Diathermy**   * for burning of Eye lashes & cutting of tissues   **Made: Brazil / USA/ Europe /Japan** | **01** |  |  |  |  |
| 16 | **Power Supply of Topcon Slit Lamp** | **01** |  |  |  |  |
| 17 | **COMPUTERIZED LENSMETER**   * LCD Touch Panel * LCD Monitor with Wider Directional Angle * Automatic Mono- & Multi-focal Detection * UV Transmittance Measurement * Contact Lens Measurement * Easy and Fast Operation   **Made: USA/ Europe /Japan** | **02** |  |  |  |  |
| 18 | **Nested Thermal Cycler PCR.**   * Pelteir based PCR machine * with full thermal gradient * Sample capacity 96 x 0.2 ml tubes * 1 x 96-well plate, Touch down instant incubation capacity * Temperature range 4-100ºC * gradient range 30 to 100º C * 8 temperature set points with Gradient capability * Temperature uniformity ± 0.5 º c well to well * Minimum programs memory  500 typical programs * Minimum Average ramp rate 2.5°C/sec   **Made: USA/ Europe /Japan** | **01** |  |  |  |  |
| 19 | **REAL TIME THERMAL CYCLER**   * **Reaction Module:** Peltier type; 96 wells * **Reaction Modular design:** Honey comb archetecture of block for faster ramping * **Compatible reaction modules:** Gradient enabled 48 x 48 wells, Gradient enabled 96-Well deep well * Automation compatible for high throughput * Fully adjustable Heated lid with large range of plastic ware * 2-32 systems can be integrated to improve throughput with PC addition * **Thermal electric module protection:** O Ring seal, Patented * **Onboard memory, protocols:** >1,000 * **Temperature control modes:** Calculated and block * Licensed PCR machine * **lower gradient rage:** 30-99 * **upper gradient range:** 24-100 * Able to detect single DNA copy from human Genome. * **Excitation**: 6 Filtered LEDs * **Detection:** 6 Filtered Photodiodes * **Multiplexing:** upto 5 targets per well.   **Made: USA/ Europe /Japan** | **01** |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 20 | **Agarose Gel Electrophoresis System**   * Horizontal electrophoresis system, * Includes 15- and 20-well combs, 15 x 10cm (W x L) UV-transparent tray, casting gates, gel caster. * Easily removed QuickSnap electrodes for simple cleaning * UV-transparent clear gel tray with fluorescent ruler * Longer tabs on base for easy lid removal and reduced buffer spillage * Included casting gates and gel caster for tape-free casting. * Wide range of different gel combs: fixed-height drop-in combs, adjustable-height combs, preparative combs, and multichannel pipet-compatible   **Made: USA/ Europe /Japan** | **01** |  |  |  |  |
| 21 | **Gel Documentation System for Fluorescence, colorimetric / densitometry, and documentation applications.**   * Gel size: maximum 28 x 36 cm , * maximum image area: 19.4 x 26 cm. * Epi White light and Trans UV (302nm optional 365 nm) * Excitation of Blue UV Blue with conversion screens. * CCD detector with 4 mega pixels * Stain free digital imaging * Pixel size 4.65 x 4.65 um. * Pre- Calibrated and optimized. Dynamic flat fielding per application. * Total protein normalization application. * Fully automated system optimized with the use of single software. **Made: USA/ Europe /Japan** | **01** |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 22 | **Biological safety cabinet: type 2**  **Description:** 3 ft. Cabinet Width Package: Includes Cabinet, Manual Adjustable Height Stand, Factory installed UV Light, 1 set of armrests  Spring   * Certifications: NSF/ANSI 49, UL, CE * Chamber Material: Stainless steel * Sash opening : 25 cm * Type Class II * Filter Efficiency: 99-100%   **Made: USA/ Europe /Japan** | **02** |  |  |  |  |
| 23 | **Single Channel Auto Pipettes set**   * Manual with adjustable volumes * Complete set of pipettes: Volume Range between 0.1 – 10.0 µl, 10.0 – 100 µl and 100 to 1000 µl * Maintain precise sample volumes * Compatible to work in Molecular Research Lab.   **Made: USA/ Europe /Japan** | **02** |  |  |  |  |
| 24 | **Keratoconus Trial Set Lenses:**   * contact lenses fitting set * Series of designs to fit all corneal shapes, sizes and stages of keratoconus, pellucid marginal degeneration, keratoglobus, LASIK-induced ecstasia and patients who have undergone penetrating keratoplasty.   **Made: USA/ Europe /Japan** | **01** |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 25 | **Vortex Mixer:**   * Smooth and instant mixing of larger sample sizes * Minimum noise and excessive vibration * Spill proof electronic controls   **Made: USA/ Europe /Japan** | **02** |  |  |  |  |
| 26 | **Dry Heat Bath**   * Digital display of temperature * Broad Temperature range upto 150°C * Microprocessor control * 48 well blocks with capacity of 2.0 ml tubes * Stainless steel block chamber with uniform transfer of heat   **Made: USA/ Europe /Japan** | **01** |  |  |  |  |
| 27 | **High speed Centrifuge**   * Capacity: 24 x 1.5/2.0 ml * Max speed : 13,300 rpm / 17,000g * Includes : 24x 1.5/2.0ml rotor with click seal bio-containment lid. * Run time: 1-99 minutes * Type: Benchop centrifuge * Digital display with precise speed and time control   **Made: USA/ Europe /Japan** | **01** |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 28 | **-80°C Scientific Freezer**   * Vertical with adjustable shelves * Temperature controller with built in alarm * Continuous temperature monitoring * Powerful forced air refrigeration system with excellent temperature uniformity and quick recovery * Cabinet’s construction according to standards required for medical and scientific applications.   **Made: USA/ Europe /Japan** | **01** |  |  |  |  |
| 29 | **Water bath with shaker:**   * Digital display with precise temperature control * Exterior with temperature resistant material * Stainless steel reservoir * Fins and gable cover to protect hands * Wide temperature range available   **Made: USA/ Europe /Japan** | **01** |  |  |  |  |
| 30 | **Autoclave for MicroBiology Lab**   * Top loading autoclave with auto Exhaust and warming cycles * Upward lid opening * Suitable for agar sterilization and its liquefaction * Dual-sensing lid interlock prevents lid opening at high temperature and pressure * In-process display shows the status of sterilization process * Include baskit also.   **Made: USA/ Europe /Japan** | **01** |  |  |  |  |
| 31 | **HBA1C Analyzer**   * Able to identify differences in structures or charges of the glycated Vs non-glycated Hemoglobin. * Separation of Glycated hemoglobin on the basis of Ion Exchange Chromatography. * Detection of Immunoassay by nephelometer. * FDA approved for Diagnostic and research purpose   **Made: USA/ Europe /Japan** | **01** |  |  |  |  |
| 32 | **Centrifuge for Human DNA Extraction**   * Capacity: 16 x 50ml Tubes * Speed: 5000 rpm or more * Auto lock rotor exchange * High speed performance for quick and fast results * Selection for optional rotors * Digital display with precise control   **Made: USA/ Europe /Japan** | **01** |  |  |  |  |
| 33 | **Weight machine**   * Suitable for human body weight measurement | **01** |  |  |  |  |
| 34 | **chandelier light for vitrectomy machine**  Used for viewing of Posterior Segment on Constellation Machine  **Made: USA/ Europe /Japan** | **01** |  |  |  |  |
| 35 | **Video System for Operating Microscope**  Camera, Beam Splitter & T.V Relay lens for Topcon Operating Microscope  **Made: USA/ Europe /Japan** | **02** |  |  |  |  |

**NATIONAL TAX No:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ SIGNATURE …………………………………..**

**GST No: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ NAME OF CONTRACTOR ……….…………**

**C.N.I.C No: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ADDRESS …...…………………….…….……**

**(Photostat copies must be enclosed) Contact NO ………..…………….……………**

**I N S T R U C T I O N S**

1. **The tender should be accompanied with pay order / demand draft of 2.5% 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.**
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 Hundred Thousands turn over with Bank Certificate**
10. **Minimum Three Years Experience in relevant field with documentary proof**
11. **Three Years Income Tax Return (Photo Copy Must Enclosed)**
12. **The Performance Security is 10% for One Year w.e.f the date of contract agreement in the name of Sindh Institute of Ophthalmology & Visual Sciences (SIOVS) Hyderabad.**
13. **In case of Import , the copy of LC should be provided.**

**Purchase & Store Officer,**

Sindh Institute of Ophthalmology

& Visual Sciences, Hyderabad