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**Tender No.: GV/3/2017-18**

**Name of the Tender – Tender for Scientific Laboratory Equipments for Home Science Department, Sadra Campus, Dist:- Gandhinagar**

**Financial BID**

Sr. No	NAME AND SPECIFICATION OF INSTRUMENTS	Qnt	Amount
01	<p><b><u>DIGITAL BALANCE: 0.001 g</u></b></p> <ul style="list-style-type: none"> <li>• With draft shield cover, Brilliant backlit LCD Display, user friendly, with record print out (RS232C and USB) facility, user selectable filter, stability indicator, auto zero</li> <li>• Maximum Load: 320 ± 20.00 g</li> <li>• Readability: 0.001 g</li> <li>• Repeatability: 0.002 g</li> <li>• Linearity: 0.002 g</li> <li>• Pan size(dia.) : 115 mm</li> <li>• Response time: &lt; 3 sec.</li> <li>• Calibration: Internal</li> <li>• Tare range: Maximum balance capacity (Full)</li> <li>• Power: ~230V 50Hz,</li> <li>• <b><u>With draft shield cover.</u></b></li> </ul>	01	
02	<p><b><u>BIONOCULAR MICROSCOPE</u></b></p> <ul style="list-style-type: none"> <li>• Stand &amp; Body: Ergonomic Design for long term comfortable usage. Aluminium die cast body with all critical movements based on ball bearing.</li> <li>• Focusing System: Co-axial coarse &amp; Fine Focusing control on both sides. It should have a upper limit focus stopper preventing contact between objective and specimen in higher magnification. Built in torque adjustable focusing knob</li> <li>• Transmitted Illumination: Long lasting LED illumination</li> <li>• Nosepiece: Quadruple revolving nosepiece based on ball bearing mechanism with positive click stop</li> <li>• Observation Tube: 45° inclined binocular observation tube</li> <li>• Objectives: Interchangeable and Parfocal Semi Plan Achromat Objectives of 4x/0.10, 10x/0.25, 40x/0.65 (Spring) &amp; 100x/1.25 (Spring, Oil). All optics should be anti fungus treated</li> <li>• Condenser: Abbe Condenser with aperture iris diaphragm (NA 1.25) focusable with rack &amp; pinion and continous variable iris diaphragm with holder for filter.</li> </ul>	02	

	<ul style="list-style-type: none"> <li>Mechanical Stage: Coaxial low drive Mechanical Stage with stage size of 125 X 145mm and travel range of 50 mm X 76 mm with slide holder.</li> <li>Eyepiece: Paired Widefield eyepiece of 10x having field of view of 18 mm with diopter setting of +/- 5 should be available on one eyepiece position.</li> </ul>																																
03	<p><b><u>WATER DISTILLATION UNIT (water still) (Manestry type)</u></b></p> <ul style="list-style-type: none"> <li>Capacity: 10-12 L per hour</li> <li>Made up of completely high gauge S.S. 304</li> <li>Manestry type, Wall mounting, Wall mounting metal clamp</li> <li>Open type condenser for easy cleaning</li> <li>It should provide continuous supply of Pyrogen free distilled water.</li> <li>Heating: 1500Watt x 3 coil, with separate heavy duty cable.</li> </ul>	01																															
04	<p><b><u>DIGITAL pH METER</u></b></p> <p>High precision pH meter for continuous 0-14 pH reading and milivolts. With CHECK facility</p> <table> <thead> <tr> <th></th> <th><b><u>pH Mode</u></b></th> <th><b><u>mv Mode</u></b></th> </tr> </thead> <tbody> <tr> <td>Range</td> <td>: 0.00 to 14.00 pH</td> <td>0 to 1999 mv</td> </tr> <tr> <td>Resolution</td> <td>: 0.01 pH</td> <td>± 1 mv</td> </tr> <tr> <td>Accuracy</td> <td>: 0.01 pH ± 1 digit</td> <td>1mv ± 1 digit</td> </tr> <tr> <td>Input Impedance</td> <td>:</td> <td>10<sup>12</sup> ohms</td> </tr> <tr> <td>Temperature Control</td> <td>: 0 to 100°C</td> <td>Manual</td> </tr> <tr> <td>Display</td> <td>: 4 digit LED</td> <td></td> </tr> <tr> <td>Polarity &amp; Decimal</td> <td>: Automatic</td> <td></td> </tr> <tr> <td>Supply</td> <td>: 230 V AC ± 10%</td> <td>50Hz</td> </tr> <tr> <td>with Standard accessories (included)</td> <td colspan="2">: pH electrode, stand, rod, clamp, buffer, dust cover and manual</td> </tr> </tbody> </table>		<b><u>pH Mode</u></b>	<b><u>mv Mode</u></b>	Range	: 0.00 to 14.00 pH	0 to 1999 mv	Resolution	: 0.01 pH	± 1 mv	Accuracy	: 0.01 pH ± 1 digit	1mv ± 1 digit	Input Impedance	:	10 <sup>12</sup> ohms	Temperature Control	: 0 to 100°C	Manual	Display	: 4 digit LED		Polarity & Decimal	: Automatic		Supply	: 230 V AC ± 10%	50Hz	with Standard accessories (included)	: pH electrode, stand, rod, clamp, buffer, dust cover and manual		1	
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5	<p><b><u>WATER BATH CIRCULATING, SEROLOGICAL TYPE (Size: 15"X 12"X 10")</u></b></p> <p>Chamber (Inside working or completely utilizable space, exclusive heating device space): size is <b><u>15"X 12"X 10"</u></b>, with perforated flat bottom.</p> <p>Water circulation: With water circulating motor-1400 rpm Complete S.S. (Inner S.S. &amp; outer S.S.), Made up of completely high gauge S.S 304, Double walled in construction, Highly insulated between two walls Temperature control: PPI make, PID microprocessor controller cum indicator with 0.1 Resolution for set and</p>	1																															

	<p>process value, with temperature accuracy <math>\pm 0.5-1.0^{\circ}\text{C}</math>, thermostatic. Temperature above ambient to <math>99^{\circ}\text{C}</math> Long lasting kettle element With leak proof S.S. cover with heat proof handles, perforated a hole to insert thermometer to manual validate temperature.</p>		
<b>6</b>	<p><b><u>VORTEX SHAKER</u></b> Compact design, rugged construction, heavy metal base and rubber feet to prevent movement during shaking, Operation mode: continuous and touch mode, Variable speed control, Maximum speed: 3000rpm With 90-100 mm universal top plate attachment, spare cup attachment, spare micro tube insert</p>	<b>1</b>	
<b>7</b>	<p><b><u>HOT PLATE MAGNETIC STIRRER</u></b>  Top plate size: 18 X 18 cm, Max. load: 11 kg, Max Capacity: 5 Liter Top plate Material : Acid and alkali resist Ceramic top, easy to clean and maintain Electronic speed control from 100-1000 rpm Temperature range: <math>150^{\circ}\text{C}</math> to <math>500^{\circ}\text{C}</math> (Energy regulator)</p>	<b>1</b>	
<b>8</b>	<p><b><u>VOLTAGE SERVO STABILIZER/ CORRECTOR (SINGLE PHASE)- 5 KVA:</u></b> Suitable to supply stable voltage for scientific instruments. Sense from the voltage and compare with reference voltage. Proportionally move to auto transformer's wiper to buck or boost input voltage and to maintain output voltage. Capacity: 5 KVA (15 Amp.) Features: With latest electronic solid state technology. Input: 170 V to 270 VAC, Single phase Output: <math>220\text{V} \pm 2\%</math> VAC, Single phase Frequency: 50Hz Facility: 0-300 Voltmeter, M.C.B., O/P Socket, 5/15 Amp.- 2 Nos. I/P 3 Core cable, ON-LOW-HIGH-TRIP INDICATION, Fine Adj. O/P Pot, Dimmer make- Anex/Amsa</p>	<b>1</b>	
<b>9</b>	<p><b><u>Bag Sealing machine/ Manual Hand sealing machine for Plastic and HDPE bags-</u></b> Size: 16"/400MM</p>	<b>1</b>	
<b>10</b>	<p><b><u>Moisture Analyzer</u></b>-( Halogen radiation drying technology) Capacity: 110 g, Accuracy/ Readability in (g) and % : 0.005g and 5%, Pan Size: 90mm, Halogen radiation drying technology, Temperature range: <math>150^{\circ}\text{C}</math></p>	<b>1</b>	

11	<p><b>Vacuum pump- Oil free Double diaphragm type</b>  Diaphragm vacuum pump, Motor 1/3 HP, Volt/Hertz/Phase: 230/50/1, Vacuum, maximum vacuum performance: 7710 MM/Hg, Max pressure in 9 PSIG</p>	1	
12	<p><b>Desiccator Vacuum</b>  Thick walled vacuum desiccator , It can hold a vaccum 29 inch of mercury for 24 h without greese application.  With three way PP stopcock has a teflon key and the port accepts 6.35 mm id for vacuum suction.  Size: 300 mm  Flange OD of base 335 mm  Inside diameter: 296 mm  P.P. Plate O.D. 290 mm  Total height: 383 mm</p>	1	
13	<p><b>Heating mantle:</b>  Mantle knitted from fiber glass yarn, well insulation to prevent heat loss, Efficient heating with energy regulator, Capacity: 500 mL, Rating 200</p>	2	
14	<p><b>Conductivity meter:</b>  Frequency Source: In built automatically selected  Selected range: 0-20<math>\mu</math>s, 200<math>\mu</math>s, 2<math>\mu</math>s and 200ms/cms  Measuring Accuracy: <math>\pm</math>1% of F.S. In all ranges <math>\pm</math> 1 count  Indication: 3.5 Digit LED  Calibration : Singlepoint manually,  Decimal: Automatic selection  Conductivity cell: Approx. 1.0 cell constant with plastic protective cover</p>	1	
15	<p><b>Refractometer- ABBE Digital</b></p> <ul style="list-style-type: none"> <li>• Measurement of refractive index of transperant, translucent liquisid and solids substances. Measurement of % of solids in sugars solution. Automatic temperature correction of brix. RS232 interface. Backlite LCD. Prism made up of hardglass.</li> <li>• Measuring range: Refractive Index nD: 1.3000 to 1.7000, Brix: 0-95%</li> <li>• Accuracy: R.I. nD +/- 0.0002, Brix: +/- 0.1%</li> <li>• Range of temperature display: 0 to 50°, For brix value- 15-45°</li> <li>• Power supply: 220V +/- 10%, 50Hz</li> </ul>	1	
16	<p><b>Electronic Digital micrometer</b>  Line direct readout digital micrometer, measure both in mm and inch, Least count 0.001 mm(0.00005"), Caride measuring faces, Range: 025mm, Accuracy: 0.004 mm</p>	1	

<p><b>17</b></p>	<p><b>DVE Viscometer</b>  Keypad control, sharp viewing screen, direct reading of viscosity without calculation, Display info: Viscosity,% Torque, Speed/spindle; 18 spped, bubble level, Accuracy: ±1.0% of range, Repeatability: ±0.2%, Compatible with all Brookfield accessories, Instrument with all require spindles, spindle Guard leg, Lab stand, Carring case, Should be suitable for medium viscosity range: Min. 100 cP (Millipascal*second) – Max.13M (million), Sprinning Torue: 14374.0, RPM: 0.3-100, Number of Increments: 18</p>	<p><b>1</b></p>	
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The above rates are including all taxes. There is no other extra charges on above mentioned rates. I/We am/ I agree with Terms and condition attached with tender Form.

Signature of the tenderer/agency

Name of the tenderer/agency

Seal of the tenderer/agency

Place:

Date: