

**SARDAR PATEL UNIVERSITY, MANDI, HIMACHAL PRADESH**



Tender for Supply of "Equipments for the department of Botany"

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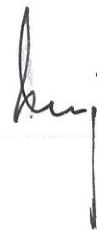


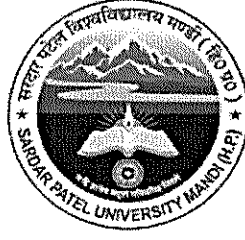
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**SARDAR PATEL UNIVERSITY, MANDI, HIMACHAL PRADESH**


**e-TENDER NOTICE**

**[e-Tender Notice for supply of "Equipments for the department of Botany"]**

SARDAR PATEL UNIVERSITY, MANDI, HIMACHAL PRADESH, invites e-tenders as a "2 Bid System" from reputed Firms for the supply of "**Equipments for the department of Botany ( as mentioned in tender document)**" to SARDAR PATEL UNIVERSITY, MANDI, HIMACHAL PRADESH, in two parts, "Part A" (Technical Bid) and "Part B" (Financial Bid).

**Tender Document upload (publish) date/time : 18/03/2023 (by 05:00 P.M.)**  
**Last Date of Submission of Tender : 27/03/2023 (up to 05:00 P.M.)**  
**Date of opening of Tender (Technical Bid) : 28/03/2023 at 11:30 A.M.**

The detailed terms & conditions, name of items etc. can also be downloaded from the website [www.spumandi.ac.in](http://www.spumandi.ac.in) and [www.hptenders.gov.in](http://www.hptenders.gov.in)

  
**Deputy Controller (F&A)**

**SARDAR PATEL UNIVERSITY, MANDI HIMACHAL PRADESH**

**1. Schedule of Tender**

Tender document for the supply and installation of "Equipments for the department of Botany" at Sardar Patel University, Mandi, Himachal Pradesh.

e-tenders are invited from the reputed & experienced firms for supplying of "Equipments for the department of Botany" "Part A" as Technical Bids and "Part B" as Financial Bids.

Tender Document upload (publish) date/time : 18/03/2023 (by 05:00 P.M.)  
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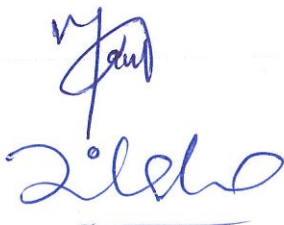
Type of Tender: Two Bid Systems.

**Tender fee:** Bidders should send tender fee ₹ 1000/- (Rupees One Thousand only) in the shape of DD in favour of FINANCE OFFICER, SARDAR PATEL UNIVERSITY, MANDI, HIMACHAL PRADESH.

**EMD:** Bidders should send ₹ 1,00,000/- (Rupees One Lakh only) in the shape of DD/FDR/Bank Guarantee in favor of FINANCE OFFICER, SARDAR PATEL UNIVERSITY, MANDI, HIMACHAL PRADESH.

**NOTE:**

1. If the tender is not opened on the above date, due to unforeseen circumstances, then the next working day will be considered as tender opening date.
2. The bidders who fail to submit the required tender fee, if applicable and EMD, their financial bids will not be considered for opening.
3. Bidder or their authorized representatives may attend the opening of the tender.





**2. TECHNICAL SPECIFICATIONS SECTION**


Technical Specifications: The tenderer shall meet the respective minimum technical specifications for the items/equipments that are being bid for. Any additional features or specifications in excess of these minimum specifications will be appreciated. A set of desired additional features are mentioned along with the minimum technical specifications, wherever appropriate.

**Detail of equipments & specification thereof**

Sr. No.	Lab Instruments	Specification	Qty
1	Gradient Thermal Cycler	<ol style="list-style-type: none"> <li>1. Purpose: PCR is a laboratory technique used to amplify segments of DNA via the Polymerase Chain Reaction</li> <li>2. Display Interface: LCD</li> <li>3. Block Format: Interchangeable/Fixed block</li> <li>4. Touch Screen of display should be responsive for both gloved and ungloved fingers</li> <li>5. Should have adjustable heating/cooling Ramp Rate</li> <li>6. Maximum Heating Ramp rate: 4.5°C/s</li> <li>7. Maximum Cooling Ramp rate: 4°C/s</li> <li>8. Capacity of Blocks: 0.2ml x 1x96 well or 0.2ml x 2x48well or 0.2ml x 3x32well</li> <li>9. Should have Pause:Start function</li> <li>10. Temperature setting accuracy: ±0.2°C</li> <li>11. Well to well temperature uniformity: ±0.4°C</li> <li>12. Gradient Spread: 1-25°C</li> <li>13. Hot Lid Temperature: 30-110°C</li> <li>14. Max number of programmable Steps: 30 or 40</li> <li>15. Max number of programmable Cycles: Upto 100</li> <li>16. Availability of USB ports: at least 2</li> <li>17. Memory to store programs: upto 1000</li> <li>18. Should have built-in Tm calculator</li> </ol>	01


2	Gel Imaging & Documentation system	<ol style="list-style-type: none"> <li>1. Applications: DNA gels, Protein Gels, Chemiluminescent and fluorescent detection of blots</li> <li>2. Should have CCD camera with cooling temperature: -25 to -35</li> <li>3. The camera should have a resolution of 6.02 MP or more and a fixed focus motorized lens</li> <li>4. Detection efficiency for chemiluminescence should be up to picograms</li> <li>5. A touch screen display should be provided</li> <li>6. Software should be supplied for capturing and processing the images</li> <li>7. Dedicated computer or Tablet should be supplied externally or fitted within, respectively, and should have a ROM of 2 TB or more</li> <li>8. The system should have UV transilluminator, and white and blue light source</li> <li>9. UV transillumination should include 302nm</li> <li>10. Imaging platform should be 20 ×16.5 cm or more</li> <li>11. Imaging platform should be adjustable</li> <li>12. Image capturing should be automatic, semi-automatic, and manual</li> <li>13. Number of filters required: 7 (for EtBr, SYBR Green, Coomassie Blue, Silver Stain)</li> <li>14. There should be an option for image printing</li> </ol>	01
3	Bench top refrigerated centrifuge	<ol style="list-style-type: none"> <li>1. Max. RPM 20000 or better</li> <li>2. Max. RCF 27800g</li> <li>3. Max Capacity</li> <li>4. (No of tubes&amp; Vol): 8x5ml 4\$100ml</li> <li>5. Temp Range: -20°C to +40°C emp Accuracy #1°C</li> <li>6. Speed Increment #20 r/min</li> <li>7. Acceleration/ Deceleration: 9/9</li> <li>8. Control Microcomputer Display LCD</li> <li>9. Program 10 user programs</li> <li>10. Timer Range: 0-99 min</li> <li>11. Noise Level \$60 dB3 (A)</li> <li>12. Overall Dimension 310x450x330mm 610x622\360 mm 610x622\360 mm</li> <li>13. Weight 41/69 kg 85/105 kg</li> <li>14. Power Supply. 220V. 60HzModei No of tuhes s Volume RPM RCI</li> <li>15. Angle Rotor</li> <li>16. AR-1. 12. 1 5/2 2ml 16000 17800g</li> <li>17. AR 2 1830 2/0 5m 16000 780g</li> </ol>	01

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4	UV-Vis micro volume Spectrophotometer	<p><b>Nano Volume Performance</b></p> <p>Detection Range dsDNA  N60, NP80: 1 - 16,500 ng/<math>\mu</math>l, N50: 5 - 7,500 ng/<math>\mu</math>l, N120: 2 - 8,000 ng/<math>\mu</math>l</p> <p>Detection Range BSA  N60, NP80: 0.03 - 478 mg/ml, N50: 0.15 - 217 mg/ml, N120: 0.06 - 230 mg/ml</p> <p>Sample Volume  N50, N60, NP80: 0.3 - 2 <math>\mu</math>l, N120: 2 - 3.5 <math>\mu</math>l</p> <p>Photometric Range  (10 mm equivalent)  N60, NP80: 0.02 - 330 A, N50: 0.1 - 150 A, N120: 0.04 - 160 A</p> <p>Path Length  N50, N60, NP80: 0.67 and 0.07 mm, N120: 1 and 0.125 mm</p> <p>Dilution Factor  N50, N60, NP80: 15 and 140, N120: 10 and 80</p> <p>Vortex  N60, NP80: 2,800 rpm</p> <p>Tube size up to 2.0 ml</p> <p>Optical Specifications</p> <p>Wavelength Scan Range  C40, N60, NP80, N120: 200 - 900 nm  N50: 200 - 650 nm</p> <p>Measure Time For Full Scan Range  C40, N50, N60, NP80: 2.5 - 4.0 sec  N120: 1.7 - 2.5 sec per sample</p> <p>Wavelength Reproducibility  C40, N60, NP80, N120: <math>\pm</math> 0.2 nm  N50: <math>\pm</math> 1 nm</p> <p>Wavelength Accuracy  C40, N60, NP80, N120: <math>\pm</math> 0.75 nm  N50: 1.5 nm</p> <p>Bandwidth  C40, N60, NP80: &lt; 1.8 nm  N50: 5 nm  N120: &lt; 2.5 nm</p> <p>Absorbance</p>	
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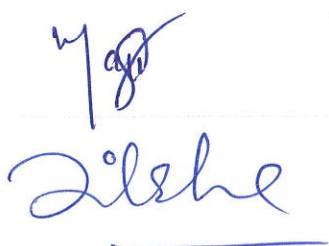
		<p>N60, NP80: &lt; 0.002 A (0.67 mm path) @ 280 nm  N50: &lt; 0.004 A (0.67 mm path) @ 280 nm  N120: &lt; 0.004 A (1 mm path) @ 280 nm  Absorbance Accuracy &lt; 1.75% @ 0.7 A @ 280 nm of the reading  Stray Light  N60, NP80: &lt; 0.5% @ 240 nm using NaI  N50: &lt; 2% @ 240 nm using NaI  N120: &lt; 1% @ 240 nm using NaI  Optical Arrangement 1 x 3648 CCD Array  Lamp Xenon flash lamp  Lifetime 109 flashes, up to 10 years  <b>Cuvette Performance – NP80 &amp; C40</b>  Detection Range dsDNA 0.1 - 130 ng/μl  Detection Range BSA 0.003 - 3.7 mg/ml  Photometric Range 0 - 2.6 A  Center Height (Z-Height) 8.5 mm  Cell Types  Outside dimension  12.5 x 12.5 mm  Heating 37 °C ± 0.5 °C  <b>Processing Power &amp; Compatibility</b>  Operating System Linux based NPOS, Onboard Processor Intel Celeron dual core  2.4 GHz  Internal Data Storage, C40, N50, N60, NP80: 32 GB, N120: 128 GB  Software Compatibility, Windows 7, 8, 10 (32 &amp; 64 bit), OS X, iOS, Android OS  <b>General Specifications</b>  Main Body Size 200 x 200 x 120 mm  Weight 3.8 - 5.2 kg depending on configuration  Operating Voltage 90 - 250 V, 50/60 Hz, 90 W, 18/19 VDC  Display 1024 x 600 pixels; glove compatible touchscreen  Built-in Battery Pack  Optional rechargeable lithium ion battery:  C40, N60, NP80: 95 Wh, 6.6 Ah, 8 h  N120: 47.5 Wh, 3.3 Ah, 3 h  Min. charging cycles: 800  Certification CE, IEC 61010-1:2012 and EN 61326-1:2013  Battery Certification IEC 62133 and UN38.3 transport test  In &amp; Output Ports 2x USB A, USB B, HDMI, Ethernet, WiFi  Security Slot for Kensington lock</p>	01
5	Refrigerator	<ol style="list-style-type: none"> <li>1. Storage Volume (NET CAPACITY) (Liters): 252</li> <li>2. Type of Door: Double</li> <li>3. Insulation: Puff</li> <li>4. BEE Star Rating as on date (Central Ministries/ Departments while procuring shall ensure that the items carry 4 star or higher Star Rating of BEE): 2</li> <li>5. Coil Material: Copper (Cu)</li> <li>6. Type of Finish: Matt</li> </ol>	01

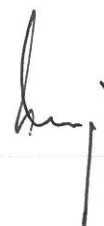
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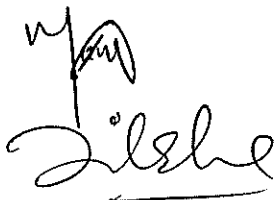
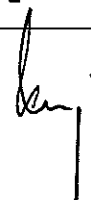


6	Bacteriological incubator	<ol style="list-style-type: none"> <li>1. Type of Incubator: Bacteriological Incubator</li> <li>2. Capacity in liters: 100-200</li> <li>3. Material of Outer Chamber: CRCA (powder coated point) Steel</li> <li>4. Ambient Temperature in °C: 5°C above ambient to 60 °C (Bacteriological Incubator)</li> <li>5. Insulation: Glass wool</li> <li>6. Type of Display: LED</li> <li>7. Type of Shelves: Removable</li> <li>8. Number of shelves: 2</li> <li>9. Auto power break off: Yes</li> </ol>	01
7	Laminar Air-flow	<ol style="list-style-type: none"> <li>1. Dimensions: 4 x 2 x 2 feet</li> <li>2. Overall length: 1900 mm</li> <li>3. Length of base cabinet: 975 mm</li> <li>4. Overall width: 1600-1900 mm</li> <li>5. Type of configuration: Movable with wheels</li> <li>6. Should have the provision of electric outlets</li> <li>7. Type of Filters: HEPA</li> <li>8. Air flow: 105 cubic meter/hour</li> <li>9. Face velocity: 4000m/s</li> <li>10. Type of blower: centrifugal</li> </ol>	01
8	pH meter	<ol style="list-style-type: none"> <li>1. System should have pH measuring electrode, temperature probe, electrode stand, and calibration buffers</li> <li>2. Should be microprocessor based</li> <li>3. pH accuracy required: ±0.05</li> <li>4. should be supplied with bottle for storing electrode</li> <li>5. Temperature compensation should be automatic</li> <li>6. Temperature accuracy required: ±0.3 °C</li> </ol>	01
9	Bench top Non Refrigerated Centrifuge	<ol style="list-style-type: none"> <li>1. Type of Motor: Brushless (without carbons)</li> <li>2. Type of lid lock: Electronic lid locking with automatic lid opening at end of run</li> <li>3. No of acceleration and deceleration profiles in built for rotor speed while automatic</li> <li>4. Braking Acceleration and Deceleration Profile-9/10</li> <li>5. Configuration of Rotor supplied with centrifuge machine swing out and angle rotor</li> <li>6. Size of rotor supplied with centrifuge in ml32x15ml(FOR swing out type rotor RPM 5000) ,2 micro plates of 96 wells each (for swing out type or angle rotor RPM 3500) ,"6x50 mL(for angle rotor) RPM 13000" ,30x2ml, 14000rpm ,PCR strip rotor with 1500 rpm/18000G which can hold upto 4xPCR strips RPM15000</li> </ol>	01


  
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10	Water Purification System	<ol style="list-style-type: none"> <li>1. The Complete Ultrapure water system must give ASTM Type III pure and Type I ultrapure water from a single system with tap water as the feed source.</li> <li>2. Prefilter it should come with integrated booster pump and should produce water that qualifies feed water requirement of the main system to ensure minimum recurring cost down the line. It should consist of water softener and should be customized based on feed Tap water quality test report.</li> <li>3. Preferred Water Purification methods Adsorption by means of spherical activated carbon catalyst reverse osmosis, Ion exchange optional UV irradiation and end-position particle single filtration.</li> <li>4. Product Water quality-Type III Production output up to 8 L/h Typical Conductivity &lt; 20 uS/cm Typical Ion retention up to 98% Retention of dissolved organic substances &gt; 99% (MW&gt;300 Dalton) Particles and microorganism retention &gt; 99% Storage 5-8 L capacities.</li> <li>5. Product Water quality Type I Water dispensing flow rate Up to 1.0 L/min Conductivity 0.055 uS/cm compensated to 250C Resistivity 18.2MΩ.cm compensated to 250C TOC content (system with UV lamp) &lt;5ppb Microorganism content &lt;1cfu/1.000ml Particle content (&gt;0.2 μm);&lt;1/ml.</li> <li>6. The system should handle conductivity&lt; 1500uS/cm, TOC&lt; 2000ppb, Free Chlorine&lt;4ppm Fouling Index (SDI) &lt; 10 The unit should be ideal for a daily consumption of 10 Liters of Ultrapure water with 8L/hr.</li> </ol>	01
11	Vertical autoclave	<ol style="list-style-type: none"> <li>1. Sterilizer chamber capacity in L (usable volume): 20 - 25 liter</li> <li>2. Sterilizer Chamber Type: Circular</li> <li>3. Working Pressure of Chamber: 20 pounds per square inch</li> <li>4. Type of Sterilizer Chamber Door Heavy duty SS 304, Hinged door</li> <li>5. Door sealing: By elastomeric rubber gasket suitable to withstand temperature upto 140-degree C &amp; pressure upto 20-30 psi</li> <li>6. Audio- visual Alarm facility available for notifying: Temperature sensor with range 100°C to 300°C, unit should be provided with a low water alarm system as well as steam release valves and safety valves, cut off automatically when the autoclave is dry</li> <li>7. Working Temperature: 125 degrees Celsius</li> <li>8. Range of Pressure Gauge: 30 pounds per square inch</li> <li>9. Accessories: Water level indicator, Water inlet &amp; outlet valves, Automatic pressure control switch, Mechanical timer, Manual Water Filling &amp; Removal, The unit having a wet heater fitted at the bottom and with capacity more than 4500 W with water capacity in litres more than 120 L</li> </ol>	01

12	Digital water bath	<ol style="list-style-type: none"> <li>1. Water bath Chamber Capacity: 2 to 4 litres</li> <li>2. Chamber Construction: Double walled rectangular chamber</li> <li>3. Material of Outer Chamber Construction: Epoxy coated/Powder coated mild steel</li> <li>4. Number of racks provided with Water bath unit: 0</li> <li>5. Number of 75 mm diameter Holes provided: 12</li> <li>6. Heating Capacity (<math>\geq</math>): 1500 Watt</li> <li>7. Control Panel has: Power mains Indicator, ON/Off Switch, Temperature controller</li> <li>8. Type of Temperature controller: Digital controller cum Indicator PID Based control</li> <li>9. Water bath Display type: Digital (numerical/application specific) backlit LCD display</li> <li>10. Removable bottom plate and shaking inserts: No</li> <li>11. Temperature range of bath chamber: Ambient to 100C</li> <li>12. Temperature control sensitivity: <math>\pm 0.5^{\circ}\text{C}</math> or better</li> <li>13. Least temperature increment Step available: 1 degree C</li> <li>14. Temperature Accuracy: <math>\pm 5^{\circ}\text{C}</math> or better</li> <li>15. Safety Features: Over temperature Alarm &amp; cutoff</li> <li>16. Power requirement: 220 V 50 Hz Single Phase AC</li> <li>17. Timer Provided: No</li> <li>18. Timer Setting (minimum increment step): 0 second</li> <li>19. Drain plug in Chamber provided: Yes</li> <li>20. Data Logging facility through (RS 232/USB/HDMI/Bluetooth etc) to computer available: No</li> <li>21. Drain screw for emptying of water bath: Yes</li> <li>22. Seamless and waterproof keypad: No</li> </ol>	01
13	Digital weight balance (AND LCD Micro weighing Balance with licensed software, Capacity 120AND <sup>R</sup> (FX-300GD)	<ol style="list-style-type: none"> <li>1. Built-in motorized calibration weight ensures the highest accuracy at the press of a key.</li> <li>2. Support: Weighing, Counting, Percentage, Animal Weighing. Optional: Density measurement.</li> <li>3. 18 standard units, with al-character mark.</li> <li>4. Strong anti-shaking monolithic electromagnetic for highest accuracy.</li> <li>5. Standard 1500V isolation USB port, ease to connect with PC.</li> <li>6. User selectable filter, stability indicator and auto-zero tracking for use in difficult environment.</li> <li>7. Large, sturdy and nearly frameless, all-glass draft shield chamber for optimal viewing of weighing chamber.</li> <li>8. The draft shield doors and all stainless steel parts of the weighing chamber base are easy to remove in just a few steps for cleaning.</li> <li>9. Backlit, high-contrast display with 15 mm digits; exceptionally easy to read under any room lighting conditions.</li> </ol>	01
14	Horizontal electrophoresis system	<ol style="list-style-type: none"> <li>1. Length of the Gel tray: 15 cm</li> <li>2. Width of the Gel tray: 15 cm</li> <li>3. Comb wells: 16 well &amp; Comb thickness: 1 mm</li> <li>4. Type of Electrodes: Removable</li> <li>5. Power pack: Should be with atleast three sets of output terminals to deliver constant voltage or current</li> <li>6. Output: 10-300v; current: 4-400ma; power: 75 watts</li> <li>7. Display for voltage, current, power and time: LED</li> </ol>	01

15	Bench top mini centrifuge	<ol style="list-style-type: none"> <li>1. Design: Bench Top Centrifuge</li> <li>2. Type of Motor: Brushless (without carbons)</li> <li>3. Configuration of Rotor supplied: Angle rotor</li> <li>4. Size of rotor: 12x2ml</li> <li>5. Speed: 20,000 RPM</li> </ol>	01
16	Type of Micropipette Fixed Volume Single Channel	<ol style="list-style-type: none"> <li>1. Micropipette with spring loaded tip cone: No</li> <li>2. Autoclavable: No</li> <li>3. Capacity of Fixed Volume Single Channel Micropipette 2ul</li> <li>4. Locking Mechanism, No</li> <li>5. Digital Volume Indicator Without</li> </ol>	01
17	Type of Micropipette Fixed Volume Single Channel	<ol style="list-style-type: none"> <li>6. Micropipette with spring loaded tip cone: No</li> <li>7. Autoclavable: No</li> <li>8. Capacity of Fixed Volume Single Channel Micropipette 2-20ul</li> <li>9. Locking Mechanism: No</li> <li>10. Digital Volume Indicator Without</li> </ol>	01
18	Type of Micropipette Fixed Volume Single Channel	<ol style="list-style-type: none"> <li>1. Micropipette with spring loaded tip cone: No</li> <li>2. Autoclavable: No</li> <li>3. Capacity of Fixed Volume Single Channel Micropipette 10-100ul</li> <li>4. Locking Mechanism: No</li> <li>5. Digital Volume Indicator Without</li> </ol>	01
19	Type of Micropipette Fixed Volume Single Channel	<ol style="list-style-type: none"> <li>1. Micropipette with spring loaded tip cone: No</li> <li>2. Autoclavable: No</li> <li>3. Capacity of Fixed Volume Single Channel Micropipette 100-1000ul</li> <li>4. Locking Mechanism: No</li> <li>5. Digital Volume Indicator Without</li> </ol>	01
20	Deep freezer refrigerator (-20°C)	<ol style="list-style-type: none"> <li>1. Conformity to Standards: CE (with 4 digit notified number)</li> <li>2. Capacity in liters: 250-300</li> <li>3. Type of cabinet: Vertical</li> <li>4. Castors: Heavy duty lockable</li> <li>5. Number of corrosion resistant racks: 3</li> <li>6. Number of inner storage compartments with insulated doors: 4</li> </ol>	01

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21	Hot Air Oven	<ol style="list-style-type: none"> <li>1. Minimum Capacity: 330 liters</li> <li>2. Hot Air Circulation</li> <li>3. One path (in between the inner chamber and insulation)</li> <li>4. Maximum Temperature (degree Celsius) Upto 350</li> <li>5. Coating of Outer Chamber Stoving Enamel</li> <li>6. Width 600 millimeters</li> <li>7. Maximum Capacity 10000 liters</li> <li>8. PID Micro Processor Temperature Controller Display Dual</li> <li>9. No. of Inner Trays 3</li> <li>10. Working Temperature Range 250 degrees Celsius; Insulation Glass wool</li> <li>11. PID Micro Processor Temp. Controller Sensitivity (degree Celsius) +/- 1</li> <li>12. PID Micro Processor Temperature Controller Range 250 degrees Celsius</li> <li>13. Digital Timer, RS485 Port</li> <li>14. Material of Outer Chamber Milc Steel</li> <li>15. Height 600 millimeters</li> <li>16. Coating of Inner trays Nichol plated</li> <li>17. Design of Inner trays Adjustable Wires Mesh Material of Inner Chamber Stainless Steel</li> </ol>	01
22	Hot plate	<ol style="list-style-type: none"> <li>1. Size (Dimension) (W)(inch) 12</li> <li>2. Pilot lamp indicator (On/Off)</li> <li>3. Indicates heat</li> <li>4. Temperature control 200 degrees Celsius</li> <li>5. Surface Temperature</li> <li>6. 250 degrees Celsius</li> <li>7. Diameter 12 inches</li> <li>8. Humidity (%) 85</li> <li>9. Minimum time to reach boiling point 1 Lt. H2O (approx)</li> <li>10. 15 minutes</li> <li>11. Shape Square</li> <li>12. Coating MS powder coating</li> <li>13. Controller Energy Regulator</li> <li>14. Glass ceramic area</li> <li>15. 235 millimeters</li> <li>16. Weight 4 kilograms</li> <li>17. Material Stainless steel</li> </ol>	01
23	Orbital Shaker	<ol style="list-style-type: none"> <li>1. Castor wheels: Yes</li> <li>2. Warranty in years: 2</li> <li>3. Range of Temperature: 5 degrees centigrade to 60 degrees centigrade</li> <li>4. Type of Display: LED</li> <li>5. Type of speed control: Stepless continuously variable</li> <li>6. Orbital shaking amplitude in mm: 25 mm</li> <li>7. Type of flask which can be accommodated: 100 ml ,250 ml ,500 ml ,1000 ml ,50 ml ,2000 ml</li> <li>8. No of clamps for 100 ml flask to be supplied with system: 18</li> <li>9. No of clamps for250 ml flask to be supplied with system: 12</li> <li>10. No of clamps for 500 ml flask to be supplied with system: 6</li> <li>11. No of clamps for 1000 ml flask to be supplied with system: 4</li> <li>12. Interior illumination: fluorescent bulb</li> <li>13. Stabilizer provided: Nc</li> </ol>	01


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24	PAGE and western blotting system	<ol style="list-style-type: none"> <li>1. Gel Tank -2 nos</li> <li>2. Gel Running module -4 nos (for 4 gels)</li> <li>3. Gel caster set -2 nos (for 4 gels)</li> <li>4. Gaskets - 4 nos</li> <li>5. Transfer assembly complete set - 2 nos( for 4 gels)</li> <li>6. Short Glass Plates (10 x 8 cm) - 4 set (20 nos)</li> <li>7. Glass plate (10 x 10 cm) with spacer 1.0 mm - 2 sets (10 nos)</li> <li>8. Glass plate with spacer (10 x 10 cm) 1.5 mm -2 sets (10 nos)</li> <li>9. Combs 10 well 1.0 mm -1 set (5 nos)</li> <li>10. Combs 15 well 1.0 mm -1 set (5 nos)</li> <li>11. Combs 10 well 1.5 mm - 1 set ( 5nos)</li> <li>12. Combs 15 well 1.5 mm - 1 set (5 nos)</li> <li>13. Sample loading guide -2 nos</li> <li>14. Glass drying tray -2 nos</li> <li>15. Power Supply high current for Western blot and 4 gel at a time (voltage: 10-300v; current: 4-400ma; power: 75 watts)- 1 nos.</li> </ol>	01
25	Ultradeep freezer (-80 °C)	<ol style="list-style-type: none"> <li>1. Capacity in liters: 340 L</li> <li>2. Type of Cabinet: Vertical</li> <li>3. Should have heavy duty lockable castors and levelling for adjustments and installation: Yes</li> <li>4. Number of holding racks: 15</li> <li>5. Number of inner storage compartments with insulated doors and adjustable height: 3</li> <li>6. Number of compressors: 2</li> <li>7. Number of corrosion resistant racks: 0</li> <li>8. Pairs of Cryogloves to be provided: 1</li> <li>9. Number of Ice scraper to be provided: 1</li> <li>10. Temperature Chart recorder to be provided: No</li> <li>11. Availability of USB port to download event log and freezer setting</li> </ol>	01

3. **Important Notes to the Bidder:**

1. Tender document can be downloaded from [www.hptenders.gov.in](http://www.hptenders.gov.in) and also at University website [www.spumandi.ac.in](http://www.spumandi.ac.in)
  2. The bidders are requested to read the tender document carefully and ensure all the compliance with instructions herein. Non-compliance of the instructions contained in this document may disqualify the bidders from the tender process.
  3. The prescribed tender documents should be uploaded at **hp-e-tender** portal and also submitted in one sealed envelope duly super scribed with **“Equipments for the department of Botany” to SARDAR PATEL UNIVERSITY, MANDI, HIMACHAL PRADESH.** This sealed envelope should contain **two sealed envelopes** marked A, & B as prescribed as under:
    - a. Envelope A containing appropriate Tender Fee & Earnest Money Deposit (EMD)
    - b. Envelop B containing the Technical Bid along with the supporting documents. (See Terms & Conditions for more details)
- **Financial Bid: Rate should be quoted in online mode only.**



#### 4. TERMS AND CONDITIONS OF THE TENDER

1. The duly constituted committee appointed by the competent authority of SARDAR PATEL UNIVERSITY, MANDI, HIMACHAL PRADESH, reserves the right to select or reject the tenders.
2. Incomplete tenders, amendments and additions to tender after opening are liable to be ignored and rejected.
3. The Bid shall be treated as a 2 Bid System. The Technical Bid will be considered for applicants who's Tender Fee, if applicable and Earnest Money Deposit (EMD) is found in order. Financial Bid shall be opened for those bidders who have qualified in Technical Evaluation.
4. **Changes/amendment:** At any time prior to the deadline for submission of tender, the University may amend the tender documents issuing by addendum/corrigendum. The University shall have the right at any time, by written notice, in the form of an amendment order, to make any changes, if deems necessary, including, but not limited to, changes in specifications, design, delivery, testing methods, packing or destination.
5. **Bid Validity-** Bids should be valid for a period of 180 days from the date of opening of financial bid.
6. **Withdrawal of bids:** No bidder will be allowed to withdraw its bid in the interval between the deadline of submission of bids and expiration of period of bid validity. Withdrawal of bid during this period will result in forfeiture of the bidder's bid security (EMD) and other sanctions.
7. **Bid Security:** Bid Security should remain valid for a period of 45 (Forty Five) days beyond the final bid validity period. The Bid Security can be submitted in the form of an account payee demand draft, fixed deposit receipt, or banker's cheque. The MSEs are provided tender documents free of cost and are exempted from payment of earnest money, subject to furnishing of relevant valid certificate for claiming exemption. A bidder's Bid Security will be forfeited if the bidder withdraws or amends its/his tender or impairs or derogates from the tender in any respect within the period of validity of the tender or if the successful bidder fails to furnish the required Performance Security within the specified period. Bid securities of the unsuccessful bidders should be returned to them at the earliest after expiry of the final bid validity period and latest by the 30th day after the award of the contract. Bid Security should be refunded to the successful bidder on receipt of a performance security.
8. **Performance Security:** On receipt of notification of award from the University, the successful Bidder within 7(Seven) days shall furnish the performance security at 5% of the cost of the material/equipment ordered in the form of DD/FDR in favor of The SARDAR PATEL UNIVERSITY, MANDI, HIMACHAL PRADESH or in the form of Bank Guarantee issued/confirmed from any of commercial bank in India in an acceptable form. Performance security shall remain valid for a period of 60 days beyond the date of completion of all contractual obligation of the supplier, including warranty obligations. The Performance Security will be forfeited and credited to the University account in the event of a breach of contract by the contractor. It will be refunded to the contractor without interest, after he duly performs and completes the contract in all respects but not later than 60(sixty) days of completion of all such obligations including the warranty under the contract. Failure of the successful bidder to submit the performance security shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security, in which event the University may make the award to the next lowest evaluated bidder on same rate or call for new bids.







**9. Term of Payment:-** Payment shall be released on successful/ satisfactorily installation of equipments.

**10.** TDS on account of Income Tax and GST will be made as per rule.

**11. Financial and legal Capability**

The Bidder shall furnish documentary evidence from company Chartered Account supported with Audited Balance sheets that it meets the following financial requirement(s):

- Bidder should have an average annual turnover during last Three financial years during the last Three financial years (FY 2019-20, FY2020-21, FY 2021-22) in Same or Similar Lab Equipment of Sales / Manufacture during from the date of Bid submission for Rs. 100 lakhs.
- Bidder and OEM Financial Net worth shall be positive for the FY 2021-22 documentary evidence from company Chartered Account to be provided
- The Bidder should be a legally registered entity in India since last 05 (Five) years as on the date of submission of bid. Bidder to submit Documentary evidence of Registration along with the Bid proposal.

**12. Experience** The Bidder shall furnish documentary evidence to demonstrate that it meets the following experience requirement(s):

- List of contracts performed for Same or Similar Lab Equipment to any of the Govt Educational Institutions /State Govt. / Central Govt. / PSU /Any government undertaking etc. Bidder to submit the details as Note to bidders. Satisfactorily completed during the last 5 years with value of each contract to be at least as per the following:

A	Single Work Order Value in Rs	Rs 100 Lakhs
B	Two Work Order, each Work order Value in Rs	Rs 50 Lakhs
C	Three Work Orcer, each Work order Value in Rs	Rs 25 Lakhs

- Bidder should have executed Same or Similar Lab Equipment for More than 5locations to any Govt Educational Institutions /State Govt. / Central Govt. / PSU /Any government undertaking etc.

Bidder to submit Documentary evidence confirming works executed with Contracts Awarded and completion certificates from Govt Educational Institutions /State Govt. / Central Govt. / PSU /Any government undertaking etc.

**13. Selection of the bidder:** For the purpose of selection of the bidder, a two- stage bidding process will be followed. The response to the tender should be submitted in two parts viz. Technical Bid & Commercial Bid.

**a. Technical Bid:** Technical bid should contain information regarding the company/firm registration details, authorization letter, clientele list (List of Users), performance certificate from clients, self- declaration for not black listed, business turnover, experience and other details of the firm to judge the suitability of the bidder.

**b. Price Bid/ Financial Bid:** Financial bid should contain price of the material required to be supplied as per Price Schedule "A1" and should be submitted in online mode only.



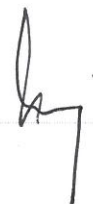
**Note:** -Bidder is required to submit financial bid inclusive of all current prevailing duties, taxes, royalties, other levies and GST. The GST shall be paid as per applicable Government rules.

- 14. Installation and Commissioning:** Free of cost at University. The OEM must ensure timely installation of the complete unit with necessary support to the indenters, as per details and lists to be made available by the University.
- 15. Conditional Offer** will not be accepted.
- 16. Cancellations of tender:** The University reserves Right to Accept any Bid and to Reject any Or all Bids: The Purchaser also reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to award of Contract, with out thereby incurring any liability to the affected Bidder or bidders or any obligation to inform the affected Bidder or bidders of the grounds for the Purchaser's action.
- 17. Proper and prompt technical support** should be provided whenever needed. Bidder must have a service station in the state of Himachal Pradesh; if be ongs to other states. Also, bidder must enclose an undertaking/affidavit to this effect showing the detail about the service station situated within the State of Himachal Pradesh.
- 18. Technical brochure of quoted models should be enclosed & placed in Envelop-B.**
- 19. Warranty:-** Three years onsite comprehensive warranty. During the warranty period, replacement of any part or rectification of defects of workswill be free of cost.
- 20.** Any deviation in the material and the specifications from the accepted terms may liable to be rejected and the bidders need to supply all the goods in the specified form to the satisfaction / specifications specified in the order /contract and demonstrate at their own cost.
- 21. Other Evidences** The Bidder shall furnish documentary evidence / undertakings along with the technical bid proposal.
  - The written confirmation of authorization to sign on behalf of the Bidder shall consist of: Power of Attorney along with Board Resolutions if Company OR partnership agreement mention the authorized signature or if Proprietary confirming the Proprietary evidence tne signatory of the Proposal to commit the Bidder
  - The firm which is participating in tender should not blacklist from any department. The firm owner has to give in written on Rs. 100/- Notary stamp paper.
  - The firm which is participating in tender should not be convicted from any department. The firm owner has to give in written on Rs. 100/- Notary stamp paper.



- GST Filing during the last 3 months from the bid submission date in the prescribed forms.
- Bidder must submit their ITR for the last 3 years.
- Bidder to provide the Undertaking on letter head mentioning the name(s) of Operating Service Centre within Himachal Pradesh at the time of Bid submission.
- Bidder to submit along with the Bid proposal the Documentary evidence of Manufacture Authorization Format exclusively mentioning Bid reference Bid reference.
- Bidder to submit the ISO 9001-2015, CE, FDA, GMP, ISO 50001:201\*, ISO 14001:2004, OHSAS18001:2007, ISO13485:2016, OHSAS 45001:2018, ANSI/BIFMA E3:20\*2.
- Bidder to submit the undertaking that no deviation certificate for the Technical Specifications, Commercial Terms, and conditions .
- Bidders are required to note that the notifications issued by Ministry of Finance, Department of Expenditure, Public Procurement Division, Circular No F. No 6 /18/2019-PPD dated 23rd July2020 for land border clause is applicable for this Bid.
- Bidders are required to deploy adequate number of qualified manpower during the Installation, Commissioning of Lab equipment and training at all the colleges without any additional cost.
- The Bidder must submit all attested copies of original documents to the Office of The Finance officer
- The sample will be called for Demonstration, within 2 days after opening of technical bid.
- Cost of consumables need to be quoted separately and will be freeze for next five years.
- Bank solvency certificate issued by any PSU and Private bank, accordingly for the subject work the Solvency required should be for Rs. 50 lakhs.

Seal & signature of vendor

**SARDAR PATEL UNIVERSITY, MANDI, HIMACHAL PRADESH**

(To be filled by the Vendor/ Bidder)

1. Name of the Vendor :
2. Full Address of the Vendor :
3. Telephone/ Mobile No. :
4. Fax. No. (If any) or email address :
5. Registration No. of Firm :
6. PAN :
7. GST Registration No. :
8. Details of the D.D./FDR/Bank Guarantee

**Tender Fee (Non-Refundable) :** D.D. No. \_\_\_\_\_ dated \_\_\_\_\_

**E.M.D Amount (Refundable):**

D.D. No./ FDR/ Bank Guarantee \_\_\_\_\_ dated \_\_\_\_\_

**Seal and signature of the bidder/Vender**

  
P. Sillke

