

## TECHNICAL EVALUATION REPORT (SUMMARY)

1. Name of Procuring Agency: University of Health Sciences Lahore
2. Method of Procurement: Single Stage two Envelopes
3. Title of Procurement: Procurement of Laboratory Equipment for Chemical Pathology Department, University of Health Sciences, Lahore
4. Tender Inquiry No: UHS/Pur/1099/20
5. Date & Time of Bid Closing: 11:00 AM
6. Date & Time of Bid Opening 11:30AM
7. Nos. of Bids Received: 09

Sr No	Item	Specifications	Vendors participated								
			The Worldwide Scientific	Sind Medical Store	Pakistan Hospital & Industrial Lab Co.	Vital Care	IK Solutions	New Chemical Center	SKI Technologies	SU Enterprises	H.A. Shah & Sons
1	Elisa washer	<p>The Microplate Washer must be compact and programmable, with an 8-channel washing comb, a vacuum pump, and built-in dispensing pumps. The Washer must be easy to program and offers a wide choice of washing methods, which can be combined according to the user's requirements. There must be a logical sequence of questions enables the operator to program washes easily.</p> <p>Must be Compatible with U, V, or flat-bottom wells Aspiration and dispensing heads must be adjusted both vertically and horizontally over the microplate wells to within 0.1 mm Autoclavable Microplate support must be easily removed for decontamination The Microplate Washer must include an 8-way manifold connected to a vacuum pump and a built-in dispensing pump. Liquid level sensors and a vacuum</p>	Quoted as per B.O.Q Specifications <b>QUALIFIED</b>	Quoted as per B.O.Q Specifications <b>QUALIFIED</b>	Quoted as per B.O.Q Specifications <b>QUALIFIED</b>	Quoted as per B.O.Q Specifications <b>QUALIFIED</b>	<b>Not Quoted</b>	Quoted as per B.O.Q Specifications <b>QUALIFIED</b>	<b>Not Quoted</b>	Quoted as per B.O.Q Specifications <b>QUALIFIED</b>	Quoted as per B.O.Q Specifications <b>QUALIFIED</b>

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		<p>sensor must ensure day-to-day microplate washing cycle safety.</p> <p><b>Dimensions (W x L x H):</b> 368 x 530 x 243 mm</p> <p><b>Weight:</b> 10. kg</p> <p><b>Input voltage and frequency:</b> 110-120 V or 220-240 V / 50-60Hz</p> <p><b>Output:</b> 100 VA max.</p> <p><b>Operating conditions:</b> 15-30°C/15-85%RH</p> <p><b>Performance:</b> Precision: +5% RSD (0.9% NaCl W/v)</p> <p>Wash volume: 50-3,000 µl per well</p> <p>Residual well volume: &lt; 2 µl per well</p> <p><b>Storage capacity:</b> Up to 75 kits</p> <p><b>Soak time:</b> In plate mode: 0-60 min per 1 sec interval</p> <p>In strip mode: 0-16 min per 1 sec interval</p>									
2	<b>Semi-automated chemistry analyzer</b>	<p>Semi-Automatic Clinical Chemistry analyzer with display unit for showing values and graphs</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Wavelength selectable via individual Six filters in range of 340, 405, 505, 546, 578 &amp; 620 nm and 6 optional positions available</li> <li><input type="checkbox"/> Wavelength Range: (320 – 1000 nm)</li> <li><input type="checkbox"/> Freely programmable against all commercially available chemistries.</li> <li><input type="checkbox"/> Aspiration System; Internal Pump of Bellows Type driven by Stepper motor.</li> <li><input type="checkbox"/> Flow cell Volume 30 µl</li> </ul>	<b>Not Quoted</b>	<p>Not Quoted as per B.O.Q Specifications <b>DISQUALIFIED</b></p> <p>Aspiration System; Internal Pump of Bellows Type driven by Stepper motor. Not available</p>	<p>Not Quoted as per B.O.Q Specifications <b>DISQUALIFIED</b></p> <p>Aspiration System; Internal Pump of Bellows Type driven by Stepper motor. Not available</p>	<p>Not Quoted as per B.O.Q Specifications <b>DISQUALIFIED</b></p> <p>Aspiration System; Internal Pump of Bellows Type driven by Stepper motor. Not available</p>	<p>Not Quoted as per B.O.Q Specifications <b>DISQUALIFIED</b></p> <p>Aspiration System; Internal Pump of Bellows Type driven by Stepper motor. Not available</p>	<b>Not Quoted</b>	Quoted as per B.O.Q Specifications <b>QUALIFIED</b>	<b>Not Quoted</b>	<b>Not Quoted</b>

		<input type="checkbox"/> Dilution Factor programmed <input type="checkbox"/> Photometric Range: - 0.1 2.3 <input type="checkbox"/> Light source: Quartz Halogen Lamp 12 V – 20 W. <input type="checkbox"/> Membrane Keyboard for directs function and alphanumeric entry. <input type="checkbox"/> High contrast graphical LCD display. <input type="checkbox"/> QC surveys for last 30 control measurements. <input type="checkbox"/> RS 232 interface for 2-way communication with personal computer. <input type="checkbox"/> With Built-in Printer <input type="checkbox"/> FDA (USA) & CE (EUROPE) certified <input type="checkbox"/> Origin: EUROPE/USA/Japan									
3	<b>Single channel Micro Pipette</b>  <b>10-100 ul</b>  <b>100-1000 ul</b>	<ul style="list-style-type: none"> <li>The pipette should be fully autoclavable.</li> <li>The pipette must have calibration/adjustment window along with volume window.</li> <li>The Pipette should have 4 digit displays.</li> <li>The pipette should have spring loaded tip cone.</li> <li>The material of the piston should be Fortron/PEI Fortron Calibration key along with the pipette.</li> </ul>	Not Quoted as per B.O.Q Specifications <b>DISQUALIFIED</b>  calibration/adjustment window along with volume window is not available	<b>Not Quoted</b>	Not Quoted as per B.O.Q Specifications <b>DISQUALIFIED</b>  calibration/adjustment window along with volume window is not available	<b>Not Quoted</b>	<b>Not Quoted</b>	Not Quoted as per B.O.Q Specifications <b>DISQUALIFIED</b>  calibration/adjustment window along with volume window is not available	<b>Not Quoted</b>	<b>Not Quoted</b>	Quoted as per B.O.Q Specifications <b>QUALIFIED</b>
4	<b>ANALYTICAL BALANCE</b>	<ul style="list-style-type: none"> <li>Weighing range (max) 320g</li> <li>Readability (=d) 0.1g</li> <li>Tare range 0-320g</li> <li>Linearity <math>\pm 3d</math></li> <li>Reproducibility 2d</li> <li>* Stabilization time &lt;4s</li> </ul>	Quoted as per B.O.Q Specifications <b>QUALIFIED</b>	<b>Not Quoted</b>	Quoted as per B.O.Q Specifications <b>QUALIFIED</b>	<b>Not Quoted</b>	<b>Not Quoted</b>	Not Quoted as per B.O.Q Specifications <b>DISQUALIFIED</b>  Calibration: internal  Weighing units g (gram), ct (carat), ozt (troy ounce), oz (ounce), GN (gran), dwt (pennyweight), lb (pound) Not available	<b>Not Quoted</b>	Quoted as per B.O.Q Specifications <b>QUALIFIED</b>	<b>Not Quoted</b>

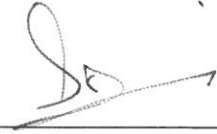
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		<ul style="list-style-type: none"> <li>* Operating temperature 18-23 °C</li> <li>* Humidity (50-70)%RH</li> <li>* Weighing plate 90mm</li> <li>* Calibration: internal, time and temperature controlled</li> <li>* Minimum weight 20d</li> <li>* * Warming up time 1 Std</li> <li>* Minimum piece weight 1d</li> <li>Reference piece numbers 1, 10, 20,50, 100</li> <li>* Weighing units g (gram), ct (carat), ozt (troy ounce), oz (ounce), GN (gran), dwt (pennyweight), lb (pound)</li> <li>* Dimensions(WxDxH) 220 (B) x 360 (T) x 345 (H) mm</li> <li>* Net weight 10 kg</li> <li>* Interface RS 232C</li> <li>* Power supply AC 230V/100V/50Hz/60 Hz Auto power off</li> </ul>									
5	<b>THERMO SHAKER FOR MICROPLATES</b>	<ul style="list-style-type: none"> <li>Temp. control range RT.+5C-80C</li> <li>* Shaking speed 200-1600rpm</li> <li>* Temp" accuracy ±0.5 C</li> <li>* Temp. uniformity ±0.5</li> <li>* Sample capacity. 2pcs microplates or culture plates.</li> <li>Timing range 1 min - 99h59min</li> <li>Mixing orbit 3mm</li> <li>* Display accuracy 0.1C</li> </ul>	Not Quoted as per B.O.Q Specifications <b>DISQUALIFIED</b>  The instrument quoted is not microplate thermo shaker	<b>Not Quoted</b>	Quoted as per B.O.Q Specifications <b>QUALIFIED</b>	<b>Not Quoted</b>	<b>Not Quoted</b>	Quoted as per B.O.Q Specifications <b>QUALIFIED</b>	<b>Not Quoted</b>	Quoted as per B.O.Q Specifications <b>QUALIFIED</b>	<b>Not Quoted</b>

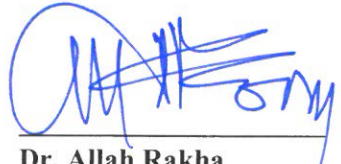
		<ul style="list-style-type: none"> <li>• * Heating time &lt;10min (from RT. to 80C)</li> <li>• * Heating Heating film</li> <li>• * Power 150W</li> <li>• * Voltage AC1 00V- 240V 50/60H2</li> </ul>									
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All technical bids were evaluated against the laid specifications and comparative statement (summary/detail) is being submitted to Chairman Tender Committee and Incharge Purchase Cell for further necessary action.

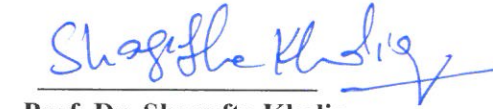


**Dr. Sumbala Ghanavi**  
HOD Chemical Pathology

No Complaint Shall be entertained after 10 days of display of Technical Evaluation report.



**Dr. Allah Rakha**  
Chairman, Tender Committee



**Prof. Dr. Shagufta Khaliq**  
Incharge, Purchase Cell