



The Islamia University of Bahawalpur

TENDER NOTICE

Sealed Tenders on item wise rate basis are invited from the Manufacturing Firms or their Authorized Distributors, Dealers and General order Suppliers having established credentials in terms of Technical, Financial and Managerial capabilities for the supply of **Lab Equipments, for Various Departments**, The Islamia University of Bahawalpur on FOR basis.

Tender No.	Category (Quantity and specifications are available in the tender document)	Estimated Cost	2% Bid Security
A	Lab Equipment's for Zoology Department	Rs.6640000/-	Rs.132800/-
B	Lab Instruments for Biochemistry & Biotechnology	Rs.450000/-	Rs.9000/-
C	Lab Equipment's for Physics	Rs.254900/-	Rs.5098/-
D	Lab Equipment's for CIDS	Rs.700000/-	Rs.14000/-

- Interested bidders may get the Tender Documents containing detailed specifications, terms and conditions from the Purchase Section, Account Department Abbasia Campus (Old), the Islamia University of Bahawalpur during office hours on submission of written application on letter head and a copy of CNIC or can be down loaded from the IUB website www.iub.edu.pk OR PPRA website www.ppra.punjab.gov.pk on payment of (non-refundable fee) of Rs. 1000/ (Separately for each category) through Bank challan HBL in A/C 14730000010403 or pay order in the name of the Treasurer, The Islamia University of Bahawalpur . Original receipt should be attached with Technical bid.
- 2% Bank Guarantee** of the estimated cost as mentioned above separately against each tender (Refundable) in the shape of CDR shall be attached with the bid, otherwise bid will be rejected.
- The rates should be quoted on FOR basis.
- Single Stage – Two Envelopes** bidding procedure will be adopted as per PPRA Rules 38- 2(a). The Envelopes shall be marked as “**TECHNICAL PROPOSAL**” AND “**FINANCIAL PROPOSAL**” in legible letters. Financial Proposal of bids found technically non-responsive shall be returned un-opened.
- Procurement shall be governed under the Punjab Procurement Rules, 2014.
- The rates should be quoted inclusive of all taxes. Copy of paid bank challan of professional tax and copy of the bid security shall be attached with the technical proposal.
- The Islamia University of Bahawalpur however, reserves the rights to reject all bids at any time prior to acceptance of a bid as per clause 35 of the Punjab Procurement Rules and grounds of rejection will be conveyed to the bidders upon their request.
- Tender should reach in the Office of the Chairman (SMPC), Department of Chemistry, Baghdad-ul-Jadeed Campus the Islamia University of Bahawalpur upto **06-10-2020** by **11:00 PM**. Tenders will be opened on the same day at **11:30 AM** in the presence of bidders or their representatives.
- Any bid submitted after the given time schedule shall not be accepted.
- All taxes will be applicable as per Govt. Rules & Regulations.
- The rates should be valid upto 120-days from the date of opening of the tender.
- In case of closed/forced holidays, tender opening time/date will be considered as the next working day.



Chairman SMPC
The Islamia University of Bahawalpur
Baghdad-ul-Jadeed Campus, Bahawalpur.
Phone: 062-9255480

IPB-833

Daily Express Multan and The News Lahore

Dated 17.10.2020



PROCUREMENT OF LAB EQUIPMENTS FOR ZOOLOGY DEPARTMENT

TENDER-A FORM

1. Name of Firm: _____
2. Mailing Address: _____
3. Phone No: _____ 4. Fax No: _____
5. Tender Fee Challan No. & amount _____ CDR No. & Amount _____
6. General Sale Tax No: _____ 7. Income Tax No. _____
8. Professional Tax No: _____

Sr. #	Item	Qty	Rate per Item with all taxes																								
1	<div>Automatic Microtome</div> <div>Features:</div> <div><ul style="list-style-type: none">The casing of microtome is made from fire-retsrdantABS plastic with streamlined design.Spacious and ingenious waste tray.Advanced retraction function makes better sectioning. The retraction value is also adjustable.Universal and fast specimen holders fits international embedding cassettes.Hand wheel locking may be activated at any position and improve operation safety standard.The electric coarse feed operates two speeds which is easy to record the feed.Separated control panel is much easier to operate.Three motorized sectioning modes (Cont, single and Step) are available user to select.Automatic memorized coarse feed and reload function can significantly Significantly improve cutting efficiency</div> <table><tr><td>Section thickness</td><td>0 to 600 μm 0 to 2μm, 0.5μm increments 2 to 10 μm, 1μm increment 10 to 20 μm , 2 μm increments 20 to 100 μm, 5 μm increments 100 to 600 μm, 50 μm increments</td></tr><tr><td>Trimming thickness</td><td>0 to 600 μm 0.5to 2 μm, 0.5 μm increments 2 to 10 μm, 1 μm increments 10 to 20 μm, 2 μm increments 20 to 100 μm, 5 μm increments 100 to 600 μm, 50 μm increments</td></tr><tr><td>Retraction thickness</td><td>5-100 μm, 5 μm increments (can deactivate)</td></tr><tr><td>Maximum specimen</td><td>40x50x30mm, or standard cassette</td></tr><tr><td>Specimen horizontai feed</td><td>28m</td></tr><tr><td>Specimen vertical feed</td><td>70mm</td></tr><tr><td>Specimen holder adjusted system</td><td>Horizontal orientation:±8° Vertical orientation: ±8°</td></tr><tr><td>Repositioning of knife holder base,(left- right)</td><td>50mm</td></tr><tr><td>Electric Coarse Feed Speed</td><td>300 μm/s (Slow) and 900 μm/s</td></tr><tr><td>Cutting speed</td><td>5 grades 1 st:100 164mm/s, 2nd: 164 228mm/s 3 rd:228 292mm/s 4th:292 356mm/s 5 th 356 420mm/s</td></tr><tr><td>Dimension:</td><td>Length: 550mm, Width: 410mm,(without handwheel , 310mm) Height: 320mm,</td></tr><tr><td>Weight</td><td>About 39kg</td></tr></table>	Section thickness	0 to 600 μm 0 to 2μm, 0.5μm increments 2 to 10 μm, 1μm increment 10 to 20 μm , 2 μm increments 20 to 100 μm, 5 μm increments 100 to 600 μm, 50 μm increments	Trimming thickness	0 to 600 μm 0.5to 2 μm, 0.5 μm increments 2 to 10 μm, 1 μm increments 10 to 20 μm, 2 μm increments 20 to 100 μm, 5 μm increments 100 to 600 μm, 50 μm increments	Retraction thickness	5-100 μm, 5 μm increments (can deactivate)	Maximum specimen	40x50x30mm, or standard cassette	Specimen horizontai feed	28m	Specimen vertical feed	70mm	Specimen holder adjusted system	Horizontal orientation:±8° Vertical orientation: ±8°	Repositioning of knife holder base,(left- right)	50mm	Electric Coarse Feed Speed	300 μm/s (Slow) and 900 μm/s	Cutting speed	5 grades 1 st:100 164mm/s, 2nd: 164 228mm/s 3 rd:228 292mm/s 4th:292 356mm/s 5 th 356 420mm/s	Dimension:	Length: 550mm, Width: 410mm,(without handwheel , 310mm) Height: 320mm,	Weight	About 39kg	01Nos.	
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2	<p>Spectrophotometer Double Bean With analysis Software. Features: An option wil enable you to work on sample of l µl or 5 µl (for example for BIO applications, DNA RNA, proteins oligonucleotids, and all the automatic processing methods are supplied) as well as 50 µl (disposable UV cuvettes) and 10 classical cuvettes (macro or micro), without having to add any accessory , and without any dismantling Wide wavelength range, satisfying requirement of various fields. Five options for spectral bandwidth selection 5nm, 4nm, 2nm, 1nm, and 0.5nm, made according to -customer’s need and satisfying the requirements of pharmacopoeia. Fully automatic design, realizing the simplest measurement. Optimized optics and large-scale integrated circuits design, light source and receiver from world famous manufacturer all added up to high performance and reliability. Rich measurement method wavelength scan times scan, multi wavelength determinations, multi,order derivative determination, double wavelength method and triple wavelength method etc.,meet different measurement requirements. Automatic 10mm 8-cell holder, changeable to automatic 5mm-50mm 4- position cell holder for more choices. Data output can be obtained via a printer port and a RS-232 interface (RS485 and USB port optional) Parameters and data can be saved for user’s convenience. PC controlled measurement can be achieved for more accurate and flexible requirement <u>Specification:</u> - Wavelength Rang: 190-1100nm,</p> <p>- bandwidth 2nm, or 1nm, 0.5nm spectra scan up to 700nm/minute, and up to 1 point every 0.1nm, multi-cuvette holder ultrafast, LINEAR (not rotative!) for 10 aligned cuvette with Temperature control and stirring (options) stray light Optical System: Double beam</p> <p>- Photometric Reproducibility: ,0.15% T</p> <p>- Working mode: T, A, C, E</p> <p>- Stray Light : ≤ 0.1%T (NaI, 220nm, NaNO2 340nm)</p> <p>- Baseline Flatness: ±0.002A</p> <p>- Stability: ≤0.001A/h (at 500 nm, after warming up)</p> <p>- Noise: ± 0.001A (at 500nm, after warning up)</p> <p>- Display: 6 inches high light blue LCD</p> <p>- Detector: Silicon photo-diode</p> <p>- Power : 220 Volt, 50/60 Hz,</p> <p>- Dimensions: 6300x470x210mm</p> <p><u>Including:-</u></p> <p>- Complete with 16 glass cells, 4 quartz cells, and 1 tungsten lamp</p> <p>Software for compute for above spectrophotometer</p>	01 Nos.	
3	<p>Digital Ultra Low Temperature Freezer Upright Type Simplified Freezing System <u>Application & Features</u> Simplified Freezing System can down to -40C : can realize robust and life time. Easy monitoring and control - Eye level Controller CFD- free refrigerants are used Used of block condenser removes filter and causes of reated failure. Filter –free mechanism lowers heat generated by the compressor Easy maintenance and improved performance Vacuum insulator and inner doors ensure defrosting around outer door. Built in standard warning and alarm functions RS232 communication link and a remote control software is supported <u>Technical Specification:</u> Dimension (w x d x h) Internal (mm): 470 x500 x 1310 Capacity: 270 Lit. Capacity of Rack: H5 D3, 12ea Capacity: Total 180 box Temp. Range: -10C-40C (when external temperature is 30C and 70%humidity) Controller: Digital PID controller (alarm warning) Compressor: Complete Closed Type Refrigerant: HFC (CFC Free Refrigerant System) Material Internal: Stainless Steel Material External: Steel plate with powder coating</p> <p>(For detailed specifications literature is attached)</p>	01 No	
4	<p>auto cleavable Variable volume Single Channel Pipette Range µl: 0.1-2.5 0.5-10 02-20 20-100 100-1000</p>	01 No	
5	<p>pH Meter Specification</p> <ul style="list-style-type: none"> • Meter Type Portable • Display type LCD • Min pH ((pH)-2 • Max pH (pH)20 • pH Resolution 0.001/0.01/0.1 • pH Accuracy ± 0.004 pH • Buffer Recognition DIN, NIST, and USA • Calibration up to 5 points • Min mV(mV)-200 • Max mV (mV)-2000 • mV Resolution 0.1 or 1 mV • mV Accuracy + 0.2 mV or 0.05% whichever is greater 	01 Nos.	

	<ul style="list-style-type: none">Conductivity Accuracy +0.5 % FSMin TDS0 to 1999 ppmSalinity Accuracy + -.5% of readingResistivity Resolution 0.01MΩResistivity Accuracy +0.5 +1 digitMin Dissolved Oxygen0 to 20ppm; 0 to 200%Dissolved Oxygen Resolution 0.01ppm; 0.1% saturationDissolve Oxygen Accuracy + 0.5% of readingMin Temperature (C) -5Max Temperature (C) 105Min Temperature (F) 23Max Temperature (F) 221Temperature compensation Automatic or manualInterface USBWaterproof Yes <p>Battery 4 x AA batteries (included)</p>																																										
6	<p>tion Plant</p> <p>Still combines high performance with value for for money.</p> <p>e operation.</p> <p>Proven quality components.</p> <p>High-quality distillate complies to will produce 4 liters/hour of pyrogen-free distilled water from its</p> <p>Its reliable 3K W UK manufactured, chromium plated heating element.</p> <p>EASY TO INSTALL, USE AND CLEAN</p> <p>No dismantling required. The Pyres®glass boiler is fitted with a built – in funnel to allow the</p> <p>Quick and easy addition of cleaning solutions. Once the cleaning solution has done its job, simply open the GP Rotaflo®</p> <p>PTFE stopcock to drain the solution out of the boiler.</p> <p>SAFETY FIRST the Chromium plated heated element fitted with two thermostats to protect</p> <p>the still from overheating the event of water supply failure.</p>	01 No.																																									
7	<p>Analyzer</p> <ul style="list-style-type: none">5,3 part differentiation, 29 parameters, 1 3D scatter gram , 3 2D scatter grams and 3 histogramTri-angle semi-conductor laser scatter combined with chemical dye method advanced flow cytometerCompact, powerful and affordableOnly 20ul sampling volumeUp to 80 samples per hour3 counting modes: whole blood, capillary blood and predilutedCapability to flag abnormal samplesLarge storage capacity: up to 100,000 samplePerformance: <table><tr><th>Parameter</th><th>Carryover</th><th>Repeatability</th><th>Linearity</th></tr><tr><td>WBC</td><td>≤0.5%</td><td>≤2.0% (4-15X10⁹/L</td><td>0.003-300x10⁹/L</td></tr><tr><td>RBC</td><td>≤0.5%</td><td>≤1.5% (3.5-6.0X10¹²/L</td><td>0.00-8.5x10¹²/L</td></tr><tr><td>HGB</td><td>≤0.6%</td><td>≤1.5% (110-180g/L</td><td>0.25g/L</td></tr><tr><td>PLT</td><td>≤1.0%</td><td>≤4.0% (150-500X10⁹/L</td><td>0.00-300x10⁹/L</td></tr></table> <ul style="list-style-type: none"> <table><tr><th>Principles</th><td>Impedance method for WBC, RBC, PLT counting Cyanide-Free reagent for Hemoglobin test flow Cytometer (FCM), Semi – conductor laser scatter, chemical dye method, Independent Basophil channel</td></tr><tr><td>Parameters</td><td>WBC ,Lym#,Mon% Mon#,Neu%,Neu#,Eos%,Eos#, Bas%, Bas#, RBC,HGB,HCT, MCV,MCH, MCHC,RDW-CV, RDW-SD,PLT,PDW,MPV,PCT and 4 research parameter P-LCC, P-LCR, LIC% ,LIC# ALY%, ALY# 1 3D and 2D3 scatter grams and histograms</td></tr><tr><td>Sample Volume</td><td>Whole Blood: 20μl Prediluted:20μl</td></tr><tr><td>Throughput</td><td>Up to 80 Samples her hour</td></tr><tr><td>Date Storage Capacity</td><td>Up to 100,000 result including numeric and graphical information</td></tr><tr><td>Test Mode</td><td>CBC CBC+DIFF</td></tr><tr><td rowspan="3">Operating</td><td>Temperature: 15oC-30oC</td></tr><tr><td>Humidity: 30-85%</td></tr><tr><td>Air pressure: 70-106 kpa</td></tr><tr><td>Communication</td><td>LAN port supports HL 7 protocol</td></tr><tr><td></td><td></td></tr></table>	Parameter	Carryover	Repeatability	Linearity	WBC	≤0.5%	≤2.0% (4-15X10 ⁹ /L	0.003-300x10 ⁹ /L	RBC	≤0.5%	≤1.5% (3.5-6.0X10 ¹² /L	0.00-8.5x10 ¹² /L	HGB	≤0.6%	≤1.5% (110-180g/L	0.25g/L	PLT	≤1.0%	≤4.0% (150-500X10 ⁹ /L	0.00-300x10 ⁹ /L	Principles	Impedance method for WBC, RBC, PLT counting Cyanide-Free reagent for Hemoglobin test flow Cytometer (FCM), Semi – conductor laser scatter, chemical dye method, Independent Basophil channel	Parameters	WBC ,Lym#,Mon% Mon#,Neu%,Neu#,Eos%,Eos#, Bas%, Bas#, RBC,HGB,HCT, MCV,MCH, MCHC,RDW-CV, RDW-SD,PLT,PDW,MPV,PCT and 4 research parameter P-LCC, P-LCR, LIC% ,LIC# ALY%, ALY# 1 3D and 2D3 scatter grams and histograms	Sample Volume	Whole Blood: 20μl Prediluted:20μl	Throughput	Up to 80 Samples her hour	Date Storage Capacity	Up to 100,000 result including numeric and graphical information	Test Mode	CBC CBC+DIFF	Operating	Temperature: 15oC-30oC	Humidity: 30-85%	Air pressure: 70-106 kpa	Communication	LAN port supports HL 7 protocol			01 Nos.	
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8	<p>Centrifuge Refrigerated</p> <p>Features:</p> <ul style="list-style-type: none">* LCD display, microprocessor control indicating setting parameters and actual parameters at the same time.* AV motor: high torque and variable frequency free from contamination caused by carbon dust.* Imported driver system and automatic control system to ensure steady and reliable operation.* Safety: Over-temperature and over-speed protection, electronic locking imbalance detection.* Can set 16 procedures, parameter can be modified during running.* 10 levels speed- up and speed- down control.* Can indicate rotor speed ascending and declining curves, centrifugal integral curves and Temperature curves. <table><tr><td>Max. Capacity</td><td>6*500ml</td></tr><tr><td>Max. speed</td><td>21000rpm</td></tr><tr><td>Max. RCF</td><td>48330xg</td></tr><tr><td>Speed Precision</td><td>± 50rpm</td></tr><tr><td>Up and Down Speed Rate</td><td>Option set</td></tr><tr><td>Temp. range</td><td>-20℃~40℃</td></tr><tr><td>Temp. Range</td><td>±1℃</td></tr><tr><td>Tem. Range</td><td>0~99h59min</td></tr><tr><td>Noise</td><td><68dB</td></tr><tr><td>Consumption</td><td>4.0KW</td></tr><tr><td>Power Supply</td><td>AC 220v, 50Hz</td></tr><tr><td>External Size (W*D*H) mm</td><td>820*710*950</td></tr><tr><td>Packing Size (W*D*H) mm</td><td>1070*830*1145</td></tr><tr><td>Net/ Gross Weight (kg)</td><td>240/300</td></tr></table>	Max. Capacity	6*500ml	Max. speed	21000rpm	Max. RCF	48330xg	Speed Precision	± 50rpm	Up and Down Speed Rate	Option set	Temp. range	-20℃~40℃	Temp. Range	±1℃	Tem. Range	0~99h59min	Noise	<68dB	Consumption	4.0KW	Power Supply	AC 220v, 50Hz	External Size (W*D*H) mm	820*710*950	Packing Size (W*D*H) mm	1070*830*1145	Net/ Gross Weight (kg)	240/300	01 Nos.																													
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9	<p>Horizontal Electrophoresis tank with power supply</p> <p>Technical Parameter</p> <p>Gel Trays (W*L) 48x75mm</p> <p>Buffer Volume 150ml</p> <p>Comb Thickness 1&1.5</p> <p>Comb Throughput 3, 5, 9, samples</p> <p>NO, of Sample 3~18</p> <p>Standard Accessories Body tank with electrode*1, Gel tray 48* 75mm*1, Gel box*1, 1.0mm thickness 3 wells comb*2, 1.5mm thickness 3 well comb*2</p> <p>1.0mm thickness 5 well comb*2, 1.5mm thickness 5 well comb*2</p> <p>1.0mm thickness 9 wells comb*2, 2.5mm thickness 9 well comb*2</p> <p>External Size (L*W*H) 250*95*50mm</p> <p>Package Size (L*W*H) 320*160*160mm</p>	01 Nos.																																																									
10	<p>Ammonia Meter</p> <p>Features:</p> <ul style="list-style-type: none">• Precision benchtop ammonia ion meter is equipped with a large backlit LCD display.• 2 to 5 point push-button calibration from low to high concentration• Direct ion concentration readout simplifies the measurement process.• Selectable concentration units, including the ppm, mg/L and mol/L.• Automatic Temperature compensation provides accurate reading over the entire range.• Calibration Due Alarm prompts user to calibrate the meter regularly.• Stability indicator shows when a measurement is recognized as stable. <table><tr><td>Ion</td><td></td></tr><tr><td>Range</td><td>1X10⁻⁶1M, 0.02~17000PPM</td></tr><tr><td>Accuracy</td><td>±1%F.S</td></tr><tr><td>Resolution</td><td>0.001, 0.01, 0.1 ,1</td></tr><tr><td>Calibration Points</td><td>2 to 5 point (0.001, 0.01,0.1, 1, 10, 100, 1000,10000)</td></tr><tr><td>Measurement units</td><td>Ppm, mg\L Mol/L, mmol/L</td></tr><tr><td>mV</td><td></td></tr><tr><td>Range</td><td>±1999.9Mv</td></tr><tr><td>Accuracy</td><td>±0.2mV</td></tr><tr><td>Resolution</td><td>0.1mV</td></tr><tr><td>Temperature</td><td></td></tr><tr><td>Range</td><td>0~105℃, 32~221℉</td></tr><tr><td>Accuracy</td><td>±0.5℃</td></tr><tr><td>Resolution</td><td>0.1℃, 0.1℉</td></tr><tr><td>Calibration Points</td><td>1 point</td></tr><tr><td>Calibration Range</td><td>Measured value ±10℃</td></tr><tr><td>General</td><td></td></tr><tr><td>Temperature Compensation</td><td>0~100℃, 32~21℉, Manual or Automatic</td></tr><tr><td>Date Hold</td><td>Manual or Auto-Endpoint</td></tr><tr><td>Stability Criteria</td><td>Low or High</td></tr><tr><td>Calibration Due Alarm</td><td>1 to 31 days of Off</td></tr><tr><td>Rest Function</td><td>Yes</td></tr><tr><td>Memory</td><td>Stores up to 500 data sets</td></tr><tr><td>Output</td><td>USB communication interface</td></tr><tr><td>Connector</td><td>BNC</td></tr><tr><td>Display</td><td>LCD</td></tr><tr><td>Power</td><td>DC5V, using AC adapter, 220VAC/50Hz</td></tr><tr><td>Dimensions</td><td>210(L)X188(W)x60(H)mm</td></tr></table>	Ion		Range	1X10 ⁻⁶ 1M, 0.02~17000PPM	Accuracy	±1%F.S	Resolution	0.001, 0.01, 0.1 ,1	Calibration Points	2 to 5 point (0.001, 0.01,0.1, 1, 10, 100, 1000,10000)	Measurement units	Ppm, mg\L Mol/L, mmol/L	mV		Range	±1999.9Mv	Accuracy	±0.2mV	Resolution	0.1mV	Temperature		Range	0~105℃, 32~221℉	Accuracy	±0.5℃	Resolution	0.1℃, 0.1℉	Calibration Points	1 point	Calibration Range	Measured value ±10℃	General		Temperature Compensation	0~100℃, 32~21℉, Manual or Automatic	Date Hold	Manual or Auto-Endpoint	Stability Criteria	Low or High	Calibration Due Alarm	1 to 31 days of Off	Rest Function	Yes	Memory	Stores up to 500 data sets	Output	USB communication interface	Connector	BNC	Display	LCD	Power	DC5V, using AC adapter, 220VAC/50Hz	Dimensions	210(L)X188(W)x60(H)mm	01 Nos.	
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Calibration Range	Measured value ±10℃																																																										
General																																																											
Temperature Compensation	0~100℃, 32~21℉, Manual or Automatic																																																										
Date Hold	Manual or Auto-Endpoint																																																										
Stability Criteria	Low or High																																																										
Calibration Due Alarm	1 to 31 days of Off																																																										
Rest Function	Yes																																																										
Memory	Stores up to 500 data sets																																																										
Output	USB communication interface																																																										
Connector	BNC																																																										
Display	LCD																																																										
Power	DC5V, using AC adapter, 220VAC/50Hz																																																										
Dimensions	210(L)X188(W)x60(H)mm																																																										
11	<p>Benchtop Dissolved Oxygen Meter</p> <p>Professional benchtop dissolved oxygen meter, 7 inch TFT display, stores up to 1000 data sets, setup menu contains 17 optional parameters. Accuracy: 0.2mg/L.</p> <p>Features:</p>	01 Nos.																																																									

	<ul style="list-style-type: none">Professional benchtop dissolved oxygen meter is equipped with a 7 inch TFT display.1 or 2 point push-button calibration using the air-saturated water or zero oxygen solution.Salinity and barometric pressure compensations ensure the accurate DO measurement.Limit alarm alert when reading exceeds range.Calibration Due Alarm prompts user to calibrate the meter regularly.Stability indicator shows when a measurement is recognized as stable. <table><tr><td>Dissolved Oxygen</td><td></td></tr><tr><td>Rang</td><td>0.00~20.00mg/L</td></tr><tr><td>Accuracy</td><td>±0.2mg/L</td></tr><tr><td>Resolution</td><td>0.01mg/L</td></tr><tr><td>%Saturation of Oxygen</td><td></td></tr><tr><td>Range</td><td>0.02~200.0%</td></tr><tr><td>Accuracy</td><td>±2.0%</td></tr><tr><td>Resolution</td><td>0.1%</td></tr><tr><td>General</td><td></td></tr><tr><td>Calibration Points</td><td>1 or 2 points</td></tr><tr><td>Temperature Compensation</td><td>0~50°C, 32~122°F, Automatic</td></tr><tr><td>Pressure Correction</td><td>60.0~113.3kPa,450~850mmHg</td></tr><tr><td>Salinity Correction</td><td>0~50g/L</td></tr><tr><td>Data Hold</td><td>Manual or Auto accuracy</td></tr><tr><td>Stability Criteria</td><td>0~50g/L</td></tr><tr><td>Calibration Due Alarm</td><td>1 to 31 days or Off</td></tr><tr><td>Interval Reading</td><td>10, 30, 60second, 10,30 minutes or Off</td></tr><tr><td>Reset Function</td><td>Yes</td></tr><tr><td>Memory</td><td>Stores up to 1000 data sets</td></tr><tr><td>Output</td><td>USB communication interface</td></tr><tr><td>Connector</td><td>6-pin mini plug</td></tr><tr><td>Display</td><td>7 inch TFT LCD</td></tr><tr><td>Power</td><td>DC12V, using AC adapter, 220VAC/50Hz</td></tr><tr><td>Dimensions</td><td>240(L)x 220(W)x80(H)mm</td></tr></table>	Dissolved Oxygen		Rang	0.00~20.00mg/L	Accuracy	±0.2mg/L	Resolution	0.01mg/L	%Saturation of Oxygen		Range	0.02~200.0%	Accuracy	±2.0%	Resolution	0.1%	General		Calibration Points	1 or 2 points	Temperature Compensation	0~50°C, 32~122°F, Automatic	Pressure Correction	60.0~113.3kPa,450~850mmHg	Salinity Correction	0~50g/L	Data Hold	Manual or Auto accuracy	Stability Criteria	0~50g/L	Calibration Due Alarm	1 to 31 days or Off	Interval Reading	10, 30, 60second, 10,30 minutes or Off	Reset Function	Yes	Memory	Stores up to 1000 data sets	Output	USB communication interface	Connector	6-pin mini plug	Display	7 inch TFT LCD	Power	DC12V, using AC adapter, 220VAC/50Hz	Dimensions	240(L)x 220(W)x80(H)mm		
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12	<p>analytical Balance.</p> <p><u>Features:-</u></p> <ul style="list-style-type: none">Back lit LCD displayColor coded keysLevel indicator with adjustable leveling feetRemovable draft shield supplied on 0.001g readabilitiesRobust metal housingSealed keypadExternal calibrationPan lifter to easily remove samples <p><u>Applications:-</u></p> <ul style="list-style-type: none">WeightingParts countingPercentage weighingAnimal/ dynamic weighingDensity determination <p><u>Technical Specification</u></p> <table><tr><td>Maximum capacity:</td><td>210g</td></tr><tr><td>Readability:</td><td>0.0001g</td></tr><tr><td>Repeatability (S.D.):</td><td>0.0002g</td></tr><tr><td>Pan Size:</td><td>3.5"Ø/ 90mmØ</td></tr></table>	Maximum capacity:	210g	Readability:	0.0001g	Repeatability (S.D.):	0.0002g	Pan Size:	3.5"Ø/ 90mmØ	01 Nos.																																									
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13	<p>Digital Microscope with Screen</p> <table><tr><td>Optical System</td><td>CF160 Infinity Optical System , Parfocal distance:60mm</td></tr><tr><td>Illumination</td><td>LED model: High luminescent white LED illuminator (Eco-illumination),Approx60,000 lifetime, Compliant multi-voltage(100-240-V) Halogen model: 6V20W/6V30W halogen lamp, compliant multi-voltage (100 V-240 V)</td></tr><tr><td>Eyepieces (F.O.V., mm) (anti-mold)</td><td>With diopter adjustment CFI E 10x (20) CFI E 15x (12)</td></tr><tr><td>Focusing</td><td>Coaxial coarse /fine focusing, Right: fine left: coarse /fine Focusing stroke: 26.5 mm, Coarse: 37.7mm/rotation, Fine: 0.2 mm/rotation, Coarser motion torque adjustable, Refocusing function (includes self-restoring stage height after pushing down stage)</td></tr></table> <table><tr><td>Tubes (anti-mold)</td><td><ul style="list-style-type: none">E2 –TB Binocular tube, inclination: 30°, Pupillary distance: 47-75mm, with eyepiece clampE2-TF Trinocular Tube Eyepiece /Port: 100/0, 360° rotatable, inclination: 30°, Pupillary distance: 47 – 75 mm, with eyepiece fixing clampC -TE2 Ergonomic Binocular Tube, Eyepieces /Port: 100/0, 50/50 vie optional C-TEP2 DSC port, inclination;10°-30°,Extension : up to 40 mm, Pupillary distance:50-75mm, with eyepiece fixing clamp</td></tr><tr><td>Nosepieces</td><td>Reversed-type quadruple nosepiece (within main body</td></tr><tr><td>Stages</td><td>Rectangular stage (within main body), with specimen holder, Cross travel:78(X)x54 (Y)mm, Stage size: 222(W) x 144(D)mm</td></tr><tr><td>Objectives(NA/W.D., mm)(anti-mold)</td><td><ul style="list-style-type: none">CFI E Plan Achromat 4x(0.10/30)CFI E plan Achromat 10X(0.25/7.0)CFI E Plan Achromat 40X(0.65/0.65)CFI E Plan Achromat 100XOil(1.25/0.23)CFI Achromat DL and other higher-grade CF160 Objectives can be use</td></tr><tr><td></td><td></td></tr></table>	Optical System	CF160 Infinity Optical System , Parfocal distance:60mm	Illumination	LED model: High luminescent white LED illuminator (Eco-illumination),Approx60,000 lifetime, Compliant multi-voltage(100-240-V) Halogen model: 6V20W/6V30W halogen lamp, compliant multi-voltage (100 V-240 V)	Eyepieces (F.O.V., mm) (anti-mold)	With diopter adjustment CFI E 10x (20) CFI E 15x (12)	Focusing	Coaxial coarse /fine focusing, Right: fine left: coarse /fine Focusing stroke: 26.5 mm, Coarse: 37.7mm/rotation, Fine: 0.2 mm/rotation, Coarser motion torque adjustable, Refocusing function (includes self-restoring stage height after pushing down stage)	Tubes (anti-mold)	<ul style="list-style-type: none">E2 –TB Binocular tube, inclination: 30°, Pupillary distance: 47-75mm, with eyepiece clampE2-TF Trinocular Tube Eyepiece /Port: 100/0, 360° rotatable, inclination: 30°, Pupillary distance: 47 – 75 mm, with eyepiece fixing clampC -TE2 Ergonomic Binocular Tube, Eyepieces /Port: 100/0, 50/50 vie optional C-TEP2 DSC port, inclination;10°-30°,Extension : up to 40 mm, Pupillary distance:50-75mm, with eyepiece fixing clamp	Nosepieces	Reversed-type quadruple nosepiece (within main body	Stages	Rectangular stage (within main body), with specimen holder, Cross travel:78(X)x54 (Y)mm, Stage size: 222(W) x 144(D)mm	Objectives(NA/W.D., mm)(anti-mold)	<ul style="list-style-type: none">CFI E Plan Achromat 4x(0.10/30)CFI E plan Achromat 10X(0.25/7.0)CFI E Plan Achromat 40X(0.65/0.65)CFI E Plan Achromat 100XOil(1.25/0.23) CFI Achromat DL and other higher-grade CF160 Objectives can be use			01 Nos.																															
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	Condensers	<ul style="list-style-type: none">•E2 Abbe Condenser NA 1.25, Aperture diaphragm with position guide markings for respective CFI E plan objectives•E2 Phase Condenser NA 1.25, Aperture diaphragm with position guide markings for respective CFI Achromat DL objectives																					
	Observation methods*	Bright fields, Epi-fluorescence, Darkfield ,phase contrast Simple polarizing																					
	Intermediate attachment**	<ul style="list-style-type: none">• E2-FM Epi-fluorescence Attachment, 2 filter cubes mountable, LED illumination (385/470/525/625nm)• Y-THS Teaching Unit B(Side- by Side)• Y-THS Teaching Unit (Face-to-Face)• Y-IDT Drawing Tube• Y-IER Eyes-level Riser																					
	Power consumption (max.)	Normal value: 3 W (LED model) ,41 W (halogen model)																					
14	condition(split DC Inverter) 2 Ton Split (cooling machine) .			01 Nos.																			
	<table><tr><td>Rated Capacity (Cooling)</td><td>6400(2800-7000) W</td></tr><tr><td>Cooling –Rated Power Cons</td><td>2020(730-2600) W</td></tr><tr><td>Cooling –Running Current</td><td>8.8(3.4-11.4)A</td></tr><tr><td>SEER- Cooling</td><td>3.6</td></tr><tr><td>Heating –Rated Capacity</td><td>6400(2900-7200) W</td></tr><tr><td>Heating Rated Power cons..</td><td>2020(800-2700) W</td></tr><tr><td>Heating-Running current</td><td>8.8(3.6-11.8)A</td></tr><tr><td>Air Flow</td><td>1200 m3/h</td></tr><tr><td>Sound level</td><td>48dB(A)</td></tr></table>			Rated Capacity (Cooling)	6400(2800-7000) W	Cooling –Rated Power Cons	2020(730-2600) W	Cooling –Running Current	8.8(3.4-11.4)A	SEER- Cooling	3.6	Heating –Rated Capacity	6400(2900-7200) W	Heating Rated Power cons..	2020(800-2700) W	Heating-Running current	8.8(3.6-11.8)A	Air Flow	1200 m3/h	Sound level	48dB(A)		
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Note: All the bidders are required to mention the details of their product being offered by them in the Technical proposal and also clearly mention the name & relevant major specifications of their offered product while quoting the financial bid as well. Mere reproduction of our tender documents will not serve the purpose and the bid may be liable to be rejected by the procuring agency in such cases.

Terms & Conditions

1.

All material supplied must be brand new strictly conforming to the given specifications .Old, reconditioned or refurbished equipment shall not be acceptable.
2.

Only certified dealers/distributors of the following manufacturers are eligible: **A standard company from UK, USA, Japan, Singapore, Korean and Europe etc.**
3.

Prices should be FOR. If the items supplied are not according to the required specification/make it will have to be replaced by the firms on their own cost.
4.

Offer must be supported with comprehensive technical literature and specifications in original (English) for the materials/goods offered.
5.

Validity of rate should be for 90 days from the date of opening of tenders.
6.

The vendors will be responsible for any damages during Transit/Delivery. They will also be responsible for any accident and their consequent damages.

Signature:

Name:

Designation:

Date:

Attachments:

Earnest Money draft

(Yes/No)

Affidavit for non black listing

(Yes/No)

Bid Validity

(Yes/No)

Signed terms & conditions

(Yes/No)

Note: Bid shall be signed by the bidder/authorized person for bidder.



The Islamia University of Bahawalpur

PROCUREMENT OF LAB INSTRUMENT FOR BIOCHEMISTRY & BIOTECHNOLOGY
TENDER-B FORM

1. Name of Firm: _____
2. Mailing Address: _____
3. Phone No: _____ 4. Fax No: _____
5. Tender Fee Challan No. & amount _____ CDR No.& Amount _____
6. General Sale Tax No: _____ 7. Income Tax No. _____
8. Professional Tax No: _____

Sr	Name of Items	Qty	Rate per item with all taxes
1	Micropipettes	05	
	Adjustable Pipettes of range:	05	
	• 0.5 µl -10 µl	05	
	• 10 µl – 100 µl		
2	• 100 µl - 1000 µl		
	Millipore Catridge RNAase / DNase free Ctridge	01	
	• Pyrogen Free		
	• DNase Free		
	• RNase Free		
	• For ultra-pure water		
	• Compatible for Millipore SynergyPak System		
	• SYPK0SIA1 & SYNS0HF00		
	Simple / deionizing catridge		
	Compatible for		
	Millipore SynergyPak System	01	
	SYPK0SIA1 & SYNS0HF00		

Note: All the bidders are required to mention the details of their product being offered by them in the Technical proposal and also clearly mention the name & relevant major specifications of their offered product while quoting the financial bid as well. Mere reproduction of our tender documents will not serve the purpose and the bid may be liable to be rejected by the procuring agency in such cases.

Terms & Conditions

1. All material supplied must be brand new strictly conforming to the given specifications .Old, reconditioned or refurbished equipment shall not be acceptable.
2. Only certified dealers/distributors of the following manufacturers are eligible: **A standard company from England, USA, Germany, Europe, etc..**
3. Prices should be FOR. If the items supplied are not according to the required specification/make it will have to be replaced by the firms on their own cost.
4. Offer must be supported with comprehensive technical literature and specifications in original (English) for the materials/goods offered.
5. Validity of rate should be for 90 days from the date of opening of tenders.
6. The vendors will be responsible for any damages during Transit/Delivery. They will also be responsible for any accident and their consequent damages.

Signature: _____

Name: _____

Designation: _____

Date: _____

Attachments:

- Earnest Money draft (Yes/No)
- Affidavit for non black listing (Yes/No)
- Bid Validity (Yes/No)
- Signed terms & conditions (Yes/No)

Note: Bid shall be signed by the bidder/authorized person for bidder.



The Islamia University of Bahawalpur

PROCUREMENT OF LAB EQUIPMENT FOR PHYSICS

TENDER-C FORM

1. Name of Firm: _____
2. Mailing Address: _____
3. Phone No: _____ 4. Fax No: _____
5. Tender Fee Challan No. & amount _____ CDR No.& Amount _____
6. General Sale Tax No: _____ 7. Income Tax No. _____
8. Professional Tax No: _____

Sr #	Name of Items	Cat No.	Quantity	Company
1	Blamer Lamps	45113	1	Leybold Didactic GMBH
2	Translucent screen	44153	1	-
3	Electron diffraction tube	55517	1	-
4	Stand rod for electron tube	55505	1	-
5	High Voltage power supply 10KV	52170	1	-
6	Double-pol cut-out switch	50450	1	-
7	Transformer (2-12V)	52125	2	-
8	Oil atomizer	685 75	1	-
9	Coaxial cable for GM. Tube holder		6	Philips harris
10	Timer Scalar	XKS 302-010F	2	Griffen
11	Analog Digital Multi meter	Matra Hit 24 S	1	Matra Hit (Made in Germany)
12	Silicon Oil	685 75	2.5 ML (two packs)	Leybold Didactic GMBH (made in Germany)
13	Tangential B-Probe	516 60	1	Leybold Didactic

Note: All the bidders are required to mention the details of their product being offered by them in the Technical proposal and also clearly mention the name & relevant major specifications of their offered product while quoting the financial bid as well. Mere reproduction of our tender documents will not serve the purpose and the bid may be liable to be rejected by the procuring agency in such cases.

Terms & Conditions

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2. Only certified dealers/distributors of the following manufacturers are eligible: **A standard company from UK, USA, Japan, Singapore, Korean and Europe etc..**
3. Prices should be FOR. If the items supplied are not according to the required specification/make it will have to be replaced by the firms on their own cost.
4. Offer must be supported with comprehensive technical literature and specifications in original (English) for the materials/goods offered.
5. Validity of rate should be for 90 days from the date of opening of tenders.
6. The vendors will be responsible for any damages during Transit/Delivery. They will also be responsible for any accident and their consequent damages.

Signature: _____

Name: _____

Designation: _____

Date: _____

Attachments:

Earnest Money draft (Yes/No)

Affidavit for non black listing (Yes/No)

Bid Validity (Yes/No)

Signed terms & conditions (Yes/No)

Note: Bid shall be signed by the bidder/authorized person for bidder.



PROCUREMENT OF LAB EQUIPMENT FOR CIDS TENDER-D FORM

4. Name of Firm: _____

5. Mailing Address: _____

6. Phone No: _____ 4. Fax No: _____

5. Tender Fee Challan No. & amount _____ CDR No. & Amount _____

6. General Sale Tax No: _____ 7. Income Tax No. _____

8. Professional Tax No: _____

Sr	Name of Items	Qty	Rate per item with all taxes
1	Muffle Furnace Fire durable materials used in working room, between the case and the chamber used heat-insulating materials door connected with the Safety switch power switch off automatically when the door is open. Voltage: 220V, Power: 2500W Chamber Size: 200x120x80mm Rated Temretature: 1000°C Rated temperatureHeating-up time(r/min): ≤50 Display error: ±2°C	Nos.01	
2	Specs Spectrophotometer Wavelength Range 190nm-1100nm Bandwidth 2nm Wavelength Accuracy ± 0.5nm Wavelength Repeatability 0.2nm Wavelength Setting Auto, Photometric Accuracy +0.3%T Photometric Repeatability 0.2%T Photometric Range -0.3-3A,0-200%T,0-9999C Stability ± 0.002A/h @ 500nm Baseline Flatness ±0.0015A/h Stray Light ≤ 0.05%T Data Output Port USB Printer Port Parallel Port Display 128*64 Dots LCD Lamps D2 Lamp & W Lamp Detector Silicon Photodiode Power Requirements 220V/50Hz	Nos.01	

Note: All the bidders are required to mention the details of their product being offered by them in the Technical proposal and also clearly mention the name & relevant major specifications of their offered product while quoting the financial bid as well. Mere reproduction of our tender documents will not serve the purpose and the bid may be liable to be rejected by the procuring agency in such cases.

Terms & Conditions

7. All material supplied must be brand new strictly conforming to the given specifications .Old, reconditioned or refurbished equipment shall not be acceptable.
8. Only certified dealers/distributors of the following manufacturers are eligible: **A standard company from England, USA, Germany, Europe, etc..**
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Signature: _____

Name: _____

Designation: _____

Date: _____

Attachments:

- Earnest Money draft (Yes/No)
- Affidavit for non black listing (Yes/No)
- Bid Validity (Yes/No)
- Signed terms & conditions (Yes/No)

Note: Bid shall be signed by the bidder/authorized person for bidder.