The Islamia University of Bahawalpur

**PROCUREMENT OF LAB EQUIPMENTS FOR CHEMISTRY 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: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Sr. #** | **Item** | **Qty** | **Rate per Item with all taxes** |
| **1** | **Personal Dosimeters For Materials Chemistry Laboratory**  **Measurement range**: dose rate: 0.01 µSv/h ~30mSv/h  **Cumulative dose**: 0.00 µSv ~999.9mSv  **Energy range**: 40Kev~1.5Mev  **Energy response error**: ≤±30% (according to 137Cs)  **Relative basic error**: ≤±10%  **Measuring time:** automatic adjustment according to radiation, quick response  **Alarm value**: 0.5, 1.0, 2.5, 10, 30, 50, 100, 500 µSv/h  **Protective alarm response time**: ≤5 second  **Display**: LCD  **Display unit**: dose rate (µSv/h or mSv/h) and Cumulate dose (µSv or mSV)— Should be PC communicable.  Battery powered/External powered with a long battery time. Should be light weight and wearable in Pocket or around the wrist. Should be water proof.  **Warranty**: Comprehensive warranty including parts and readings should not be less than 3 years at no cost of the purchaser | 01No |  |
| **2** | **Lead Apron for X-rays Protection**  **Material** Lead rubber, leather or coated  **Color** Blue preferred  **Lead Equivalent** 0.30-0.5mmpb  **Size** Large (equivalent to 180 cm length) | 02Nos. |  |

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**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 delivery to the Cholistan Institute of Desert Studies, The Islamia University of

Bahawalpur. If the items supplied are not according to the required specification/make it will have to be

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2. 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 EQUIPMENTS FOR PHYSICS**

**TENDER-B FORM**

1. Name of Firm: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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**5.** Tender Fee Challan No. &amount\_\_\_\_\_\_\_\_\_\_\_\_\_CDR No.& Amount\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**6.** General Sale Tax No:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **7**. Income Tax No.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**8**. Professional Tax No: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Sr. #** | **Item** | **Qty** | **Rate per Item with all taxes** |
| **1** | **6½-Digit USB Digital Multimeter for Seebeck System**  Specifications  •15 measurement functions including capacitance,  temperature, and digitizing  • Expanded measurement ranges include 10 pA to  10 A and 1 μΩ to 100 MΩ  • Large 5-inch (12.7 cm) multi-touch capacitive  touchscreen with graphical display  • Large internal memory; store up to 7 million readings  • Multiple language modes: SCPI, TSPR scripting,  • Two-year specifications allow for longer  calibration cycles  • Standard USB-TMC and LXI/Ethernet communication  interfaces  • Optional user-installable communication interfaces  including: GPIB, TSP-LinkR, and RS-232  • Capture voltage or current transients with  1 MS/sec digitizer  • USB host port for storing readings, instrument  configurations, and screen images | 01No |  |

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**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 EQUIPMENTS FOR PHYSICS**

**TENDER-C FORM**

1. Name of Firm: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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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: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Sr. #** | **Item** | **Qty** | **Rate per Item with all taxes** |
| **1** | **Oscilloscope**  Bandwidth = 70 MHz, Channels = 2, Sample rate on each channel = 1.0 GS/s  Record length = 2.5k points at all-time bases | 01No |  |
| **2** | **Power Supply**  Manual Triple Channel DC PS, Number of Outputs = 3, Maximum Voltage = 30V  Maximum Current = 3A, Maximum Power = 195W, Connectivity = USB  Current Read back Resolution = 1mA |  |  |
| **3** | **Digital Multimeter**  Maximum Resolution = 5.5, Maximum Reading Speed (per second) = <= 50k  Connectivity= USB (TMC) / GPIB |  |  |
| **4** | **Transformer**  Center taped transformers, Input voltage = 240 Volts, Output voltage = 12 Volts |  |  |
| **5** | **project Board**  Capable to get mounted the basic electronics components (for example, diodes, transistors, resistors etc.) |  |  |
| **6** | **(BNC) oscilloscope cable**  Bayonet Neill-Concelman (BNC) connector carrying cables should be compatible with education purpose oscilloscope |  |  |
| **7** | **Connecting wires with banana plugs on both sides**  Useable for basic electronics experiments |  |  |
| **8** | **Connecting wires with Crocodile clips and banana plugs**  Useable for basic electronics experiments |  |  |
| **9** | **Hook up wire roll**Useable for basic electronics experiments |  |  |
| **10** | **Hand held digital multimeter**  Must be capable to measure the AC/DC voltage, current, resistance, capacitance, and diode/transistor testing |  |  |

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**Designation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Attachments:**

Earnest Money draft (Yes/No)

Affidavit for non black listing (Yes/No)

Bid Validity (Yes/No)

Signed terms & conditions (Yes/No)

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The Islamia University of Bahawalpur

**PROCUREMENT OF LAB EQUIPMENTS FOR PLANT PATHOLOGY**

**TENDER-D FORM**

1. Name of Firm: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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**6.** General Sale Tax No:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **7**. Income Tax No.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**8**. Professional Tax No: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Sr. #** | **Item** | **Qty** | **Rate per Item with all taxes** |
| **1** | **Laminar Air Flow Hood**  Digital microprocessor control. Internal Dimension (WxDxH) in mm: 1200 x 645 x 610 Pre-filter: Disposable, non-washable polyester filter. Filter efficiency: > 99.999% at 0.3um Airflow velocity: average of 0.3 to 0.5m/s. Noise level: <60dBA. Fluorescent lamp: 28W. UV Lamp: 30W with safety system. Motorized front sash: Tempered glass, no less than 5mm, anti-ultraviolet radiation. Main Body Material: Adopting cold roll steel plate with corrosion proof coating with base stand. Power: 220V, 50Hz  **EEC, USA, UK, Japan** | 01No |  |
| **2** | **Incubator**  Digital microprocessor controlled. Natural air convection, chamber capacity: 112 Liters, stainless steel interior & exterior, solid door, temperature range: 5°C above ambient temperature...+100°C, temperature resolution every: 0,1°C, LCD graphic display with illuminated touch buttons, automatic air-flap control, six-segment temperature-time profile, 2 stainless steel wire shelves, access port, test results memory, open door alarm, door lock, logging with graph, internal glass door.  **EEC, USA, UK, Japan** | 01 No. |  |

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**Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Attachments:**

Earnest Money draft (Yes/No)

Affidavit for non black listing (Yes/No)

Bid Validity (Yes/No)

Signed terms & conditions (Yes/No)

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The Islamia University of Bahawalpur

**PROCUREMENT OF LAB EQUIPMENTS FOR PLANT BREEDING**

**TENDER-E FORM**

1. Name of Firm: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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| **Sr. #** | **Item** | **Qty** | **Rate per Item with all taxes** |
| **1** | **Ginning Machine**  **Specifications:**  Small Roller Ginning Machine,  Roller Size 21"  Height 33", Width 24" , Length 24",  German Blade,  Electric Motor 1HP  Lint & Seed Box Complete | 01No |  |

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Bid Validity (Yes/No)

Signed terms & conditions (Yes/No)

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**PROCUREMENT OF LAB EQUIPMENTS FOR PHYSICS**

**TENDER-F FORM**

1. Name of Firm: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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| **Sr. #** | **Item** | **Qty** | **Rate per Item with all taxes** |
| **1** | **Hematology Analyzer /Blood Analyzer**  Laser light multi-dimensional cell classification Resistant RBC mode  WIC and WOC for WBC counting Up to 60 samples per hour throughput  WBC 5 part diff with sheath reagent only Support both whole blood and capillary blood samples Four reagents for 25 parameters  **Semi-conductor laser**  Auto Hematology Analyzer uses semi-conductor laser for the flow cytometer system. Through calculations of different  angles via laser scatters, the instrument provides complete analysis including cell size, granularity and complexity.  **One channel give complete differentiate WBC**  counts lymphocyte, monocyte, neutrophil, eosinophil and basophil in WOC channel.  **3D stereograms**  Not only scatter grams but also 3D stereograms that the WBC differentiation would be presented on different views.  **Specification**  **28 parameters**  WBC,LYM%,MON%,NEU%,EOS%,BASO%,LYM#,MON#,NEU#,EOS#,BAS#,RBC,HGB, HCT,MCV,MCH,MCHC,RDW\_CV,RDW\_SD,PLT,MPV,PDW,PCT,P\_LCR,P\_LCC, RETIC\_ABS,RETIC, IRF 2 Histograms for RBC and PLT 2 Scatter grams: 5-part differential scatter gram Eosinophils and Moutrophils scatter gram 2 3-D stereograms  **Principles ofoperation**  WBC/DIFF: Flow Cytometry, Laser light multi-dimensional cell classification  WBC Analysis: Optical and impedance measurements  RBC/PLT Analysis: Impedance method  HGB test: Cyanide-free reagent colorimetry  Reagent Diluent, Sheath, Detergent ,Lyse  Sampling modes Whole blood : 20μL Pre-diluent : 20μL  Aperture Diameter WBC 100μm，RBC/PLT 68μm  Throughput Whole blood : up to 60 samples per hour Pre-diluent : up to 60 samples per hour  Data storage Up to 200,000 sample results with grams  Alarms Error messages  Dimension 598.5MM(L)×585.5MM(W)×488.5MM(H) | 01No |  |
| **2** | **UV/VISDouble Beam Spectrophotometer**  With analysis software.  The newly designed double been spectrophotometer successfully realize high accuracy and reliability measurement to meet various application requirements. It can be used extensively for qualitative and quantitative analysis in such fields as biochemical research and industry, pharmaceutical analysis and production, education, environmental protection, food industry, clinical examination, sanitation and ant epidemic etc.  Optical System Rowland off-circle arrangement Single monochromator Double beam type  Light source Halogen lamp, Deuterium lamp  Wavelength range 185 to 1100 nm  Wavelength accuracy +/-0.2 nm (at 656.1 nm)  Wavelength repeatability +/-0.1 nm  Spectral bandwidth (SBW) 1 nm  Stray light 1 % (198 nm KCL 12 g/L aqueous solution) 0.02 % (220 nm NaI 10 g/L aqueous solution) 0.02 % (340 nm NaNO2 50 g/L aqueous solution) 0.02 % (370 nm NaNO2 50 g/L aqueous solution) SBW: 1 nm  Photometric range -3~3 Abs  Photometric accuracy +/-0.0015 Abs (0 to 0.5 Abs) +/-0.0025 Abs (0.5 to 1 Abs) +/-0.3 %T Tested with NIST SRM 930D  Photometric repeatability +/-0.0005 Abs (0 to 0.5 Abs) +/-0.0005 Abs (0.5 to 1 Abs) Tested with NIST SRM 930D  Scanning speed 10-8000 nm/min  Slew speed 24,000 nm/min  RMS noise 0.00004 Abs (0 Abs, wavelength: 500 nm, measurement time: 60 sec, SBW: 1 nm)  Baseline stability 0.0004 Abs/hour (Value obtained more than one hour after turning on the source, when the room temperature is stabilized, wavelength: 250 nm, response: slow)  Baseline flatness +/-0.0005 Abs (200 - 1000 nm)  Detector Silicon photodiode  Standard functions IQ accessories, Start button, Analog output  Standard programs Abs/%T meter, Quantitative analysis, Spectrum measurement,  Time course measurement, Fixed wavelength measurement, Validation,  Daily maintenance, Two wavelength time course measurement  Dimensions and weight 486(W) x 441(D) x 216(H) mm, 15 kg  Power requirements 120 VA  Installation requirements Room temperature: 15-30 Celsius, humidity: below 85% |  |  |
| **3** | **MultiparameterBenchtop**  pH/mV/ISE/EC/TDS/Salinity/Resistivity meter that is completely customizable with a large color LCD, capacitive touch keys, and USB port for computer connectivity. The is rich in features including ISE incremental methods, data logging, alarm limits, comprehensive GLP, and many more while retaining simplicity in use with both dedicated key for routine operation and virtual keys that guide the user through setup options. ensures confidence in pH measurements with the exclusive Instruments CAL Check™ feature that alerts the user to potential problems during calibration including if the buffer is contaminated or the probe needs to be cleaned.  pH Range -2.0 to 20.0 pH / -2.00 to 20.00 pH / -2.000 to 20.000 pH  pH Resolution 0.1 pH / 0.01 pH / 0.001 pH  pH Accuracy ±0.1 pH / ±0.01 pH / ±0.002 pH ± 1LSD  pH Calibration Up to five-point calibration, eight standard buffers available (pH 1.68, 3.00, 4.01, 6.86, 7.01,9.18, 10.01, 12.45),  and five custom buffers  pH Temperature Compensation automatic or manual from -20.0 to 120.0 °C  mV Range ±2000.0 mV  mV Resolution 0.1 mV  mV Accuracy ±0.2 mV ± 1LSD  Relative mV Offset ±2000.0 mV  ISE Range e.g. 10-7 to 10M/ 0.005 to 105 ppm/ 5·10–7 to 5·107 conc  ISE Resolution 1 conc./ 0.1 conc. / 0.01 conc. / 0.001 conc  ISE Accuracy ±0.5% (monovalent ions); ±1% (divalent ions)  ISE Calibration Up to five-point calibration, seven fixed standard solutions available for each measurement unit, and five custom solutions  EC Range 0.000 to 9.999 μS/cm, 10.00 to 99.99 μS/cm, 100.0 to 999.9 μS/cm, 1.000 to 9.999 mS/cm, 10.00 to 99.99 mS/cm, 100.0 to 1000.0 mS/cm actual EC\*  EC Resolution 0.001 μS/cm, 0.01 μS/cm, 0.1 μS/cm, 1 μS/cm, 0.001 mS/cm, 0.01 mS/cm, 0.1 mS/cm  EC Accuracy ±1% of reading (±0.01 μS/cm)  EC Calibration automatic standard recognition (0.000 μS/cm, 84.00 μS/cm, 1.413 mS/cm, 5.000 mS/cm, 12.88 mS/cm, 80.00 mS/cm, 111.8 mS/cm) or user standard; single point or multi-point calibration  TDS Range 0.000 to 9.999 ppm, 10.00 to 99.99 ppm, 100.0 to 999.9 ppm, 1.000 to 9.999 ppt, 10.00 to 99.99 ppt, 100.0 to 400.0 ppt actual TDS\* (with 1.00 factor)  TDS Resolution 0.001 ppm, 0.01 ppm, 0.1 ppm, 1 ppm, 0.001 ppt, 0.01  ppt, 0.1 ppt  TDS Accuracy ±1% of reading (±0.01 ppm)  EC/TDS Temperature Compensation Disabled / Linear / Non linear (natural water)  Temperature Correction Coefficient 0.00 to 10.00 %/°C  Reference Temperature 5.0 °C to 30.0 °C  Cell Constant 0.0500 to 200.00  Cell Type 4 cells  Salinity (% NaCl) Range 0.0 to 400.0%  Salinity (% NaCl) Resolution 0.01%  Salinity (% NaCl) Accuracy ±1% of reading  Salinity (PSU) Range 0.00 to 42.00 psu  Salinity (PSU) Resolution 0.01  Salinity (PSU) Accuracy ±1% of reading  Salinity (PSU) Calibration one-point (with HI7037 standard)  Salinity Range 0.00 to 80.00 ppt  Salinity Resolution (ppt) 0.01  Salinity Accuracy (ppt) ±1% of reading  Resistivity Range 1.0 to 99.9 Ω•cm; 100 to 999 Ω•cm; 1.00 to 9.99 KΩ•cm; 10.0 to 99.9 KΩ•cm; 100 to 999 KΩ•cm; 1.00 to 9.99 MΩ•cm; 10.0 to 100.0 MΩ•cm  Resistivity Resolution 0.1 Ω•cm; 1 Ω•cm; 0.01 KΩ•cm; 0.1 KΩ•cm; 1 KΩ•cm; 0.01 MΩ•cm; 0.1 MΩ•cm\*  Resistivity Accuracy ±2% of reading (±1 Ω•cm)  Temperature Range -20.0 to 120.0 ºC\*\*; -4.0 to 248.0 ºF\*\*; 253.15 to 393.15 K\*\*  Temperature Resolution 0.1 °C, 0.1 °F, 0.1 K  Temperature Accuracy ±0.2 °C; ±0.4 °F; ±0.2 K (without probe)  Input Channels 2 (pH/mV/ISE; Conductivity/Resistivity/TDS/ Salinity)  pH Electrode glass body pH electrode with BNC connector and 1 m (3.3’) cable (included)  EC/TDS Probe platinum, four-ring EC/TDS probe with and 1 m (3.3’) cable (included)  Temperature Probe T stainless steel temperature probe with 1 m (3.3’)  cable (included)  Logging Type Automatic, Manual, AutoHold  Logging Memory Up to 100 lots, 50,000 records max/lot; maximum 100,000 data points / channel  Logging Interval 14 selectable between 1 second and  180 minutes  Connectivity Opto-isolated USB  GLP yes (GLP Channel 1: Electrode offset / slope, calibration points, calibration time stamp, GLP Channel 2: Probe cell constant / offset, reference temperature, compensation coefficient, calibration points, calibration time stamp)  Calibration Timeout Reminder yes  USP Compliant USP <645> Application  Profiles Up to 10 (5 for each)  Display Color Graphic LCD 240 x 320 pixels, 8 keys capacitive touch keyboard  Power Supply 12 VDC adapter (included)  Environment 0 to 50°C (32 to 122°F; 273 to 323 K),  RH max 95% non-condensing  Dimensions 160 x 231 x 94 mm (6.3 x 9.1 x 3.7”) |  |  |
| **4** | **Digital Balance**  Electronic analytical balance  with built-in, motorized calibration  weight, dynamic temperature compensation,  backlit 8 segment display, two large  tare keys, stability indicator, 4 user-  selectable filter levels, plus optimized  display update rate  ========================================  Capacity 320 g  Readability 0.1 mg  Tare range (subtractiv) 320 g  Response time (avg.) 3 s  Repeatability <=± 0.2 mg  Linearity <=± 0.3 mg  ========================================  Pan (inner diameter)\* 80 mm  Weighing chamber (WxDxH) 174x181x240 mm  Balance housing (WxDxH) 213x342x340 mm  Net weight approx. 6.5 kg  \*) Triangular weighing pan shape.  ∅ = diameter of the inner circle  ========================================  Standard features/Equipment supplied  - Motorized calibration weight  - Bidirectional RS-232 data interface  port  - ISP/GLP-compliant printing/recording  of weighing and calibration data when  a printer or computer is connected  to the balance  - Hanger for below-balance weighing  - Overload protection |  |  |

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1. Validity of rate should be for 90 days from the date of opening of tenders.
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**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 EQUIPMENTS FOR PHYSICS**

**TENDER-G 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: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |
| --- | --- | --- |
| **1** | Beaker 2 Liter Pyrex/Awaki/China | 20 |
| **2** | Beaker 1 Liter Pyrex/Awaki/China | 30 |
| **3** | Beaker 500 ml Pyrex/Awaki/China | 30 |
| **4** | Beaker 250 ml Pyrex/Awaki/China | 200 |
| **5** | Beaker 100 ml Pyrex/Awaki/China | 200 |
| **6** | Falcon tubes 10 ml Pyrex/Awaki/China | 5 Packets (50 each) |
| **7** | Falcon Tubes 50 ml Pyrex/Awaki/China | 5 Packets (50 each) |
| **8** | Measuring Cylinder 100 ml China | 100 |
| **9** | Beaker 5 liter China | 10 |
| **10** | Measuring Cylinder 10 ml China | 50 |
| **11** | Conical Flask 250 ml China | 50 |
| **12** | Petridish Pair (4 Inch) China | 100 |
| **13** | Eppendorph Tubes (1.5 ml) China | 24 Packets (100 each) |
| **14** | Glass slides China | 200 Packets |
| **15** | Glass Covers China | 50 Packets |
| **16** | Pestle & Mortar (5 Inch) China | 20 |
| **17** | Funnel (4 Inch) China | 50 |
| **18** | Test Tube(20ml) China | 3000 |
| **19** | Test Tube Stand Steel China | 50 |
| **20** | Pipette 1 ml China | 50 |
| **21** | Pipette 5 ml China | 50 |
| **22** | Pipette 10 ml China | 100 |
| **23** | Still Head Adapter 19/26+ Stopper 19/26 Pyrex/Awaki/Chine | 24 |
| **24** | Round Button Flask 19/26 500ml Pyrex/Awaki/China | 12 |
| **25** | Round Button Flask 19/26 250ml Pyrex/Awaki/China | 12 |
| **26** | Round Button Flask 19/26 100ml Pyrex/Awaki/China | 12 |
| **27** | Magnetic Stirrer bar (1 inch and ½ inch) China | 24 |
| **28** | Iron Stand (Complete set) China | 24 |
| **29** | Condenser 19/26 China | 24 |
| **30** | Burner China | 24 |
| **31** | Tripod Stand China | 100 |
| **32** | Spatula China | 100 |
| **33** | Receiving Adaptor 19/26 Pyrex/Awaki/China | 24 |
| **34** | Round Button Flask 29/32 1 Liter Pyrex/Awaki/China | 10 |
| **35** | Receiving Flask 19/26 500 ml Pyrex/Awaki/China | 10 |
| **36** | TLC Tank China | 24 |
| **37** | Reagent Bottle 250ml China | 50 |
| **38** | Capillary Tubes China | 24 Packets |
| **39** | Test Tube Holder China | 50 |
| **40** | Whatman Filter Paper (40,41 and 42) China | 30 |
| **41** | Aluminum Foil Diamond | 50 |
| **42** | Quartz UV Cell Pyrex/Awaki | 10 |
| **43** | Cellulose Membrane Filter (0.45 micro) Pyrex/Awaki | 12 Packets |
| **44** | China Dish (6 Inches) China | 50 |
| **45** | Centrifuge Tubes (Glass) China | 200 |

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**Attachments:**

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Affidavit for non black listing (Yes/No)

Bid Validity (Yes/No)

Signed terms & conditions (Yes/No)

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The Islamia University of Bahawalpur

**PROCUREMENT OF LAB EQUIPMENTS FOR PHYSICS**

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|  |  |  |
| --- | --- | --- |
| 01 | Acetonitrile (HPLC Grade) Merck/BDH/Sigma | 05 Liters |
| 02 | Methanol (HPLC Grade) Merck/BDH/Sigma | 05 Liters |
| 03 | Chloroform (Analytic Grade) Merck/BDH/Sigma | 2.5 Liters |
| 04 | Falcon Tube (15ml) China | 03 Packets |
| 05 | Falcon Tube (50ml) China | 03 Packets |
| 06 | Appendorph (Tube 1.5 ml) China | 03 Packets |
| 07 | MageticStirreer (1/2 inch =3  1 inch =1) China | 04 Nons. |
| 08 | Adjustable sucker China | 04 Nos. |
| 09 | N. Butanol (Commercial) China | 10 Liters |
| 10 | Methanol (Commercial) Merck/BDH/China | 200 Liters |
| 11 | Ethanol (Commercial) Merck/BDH/China | 200 Liters |
| 12 | N. Betanol (Commercial) Merck/BDH/China | 200 Liters |
| 13 | N. hexane (Commercial) Merck/BDH/China | 200 Liters |
| 14 | Chloroform (Commercial) Merck/BDH/China | 200 Liters |

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