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**

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

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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.

The Islamia University of Bahawalpur

**PROCUREMENT OF LAB EQUIPMENTS FOR PHYSICS**

**TENDER-B 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** | **6½-Digit USB Digital Multimeter for Seebeck System**Specifications•15 measurement functions including capacitance,temperature, and digitizing• Expanded measurement ranges include 10 pA to10 A and 1 μΩ to 100 MΩ• Large 5-inch (12.7 cm) multi-touch capacitivetouchscreen with graphical display• Large internal memory; store up to 7 million readings• Multiple language modes: SCPI, TSPR scripting,• Two-year specifications allow for longercalibration cycles• Standard USB-TMC and LXI/Ethernet communicationinterfaces• Optional user-installable communication interfacesincluding: GPIB, TSP-LinkR, and RS-232• Capture voltage or current transients with1 MS/sec digitizer• USB host port for storing readings, instrumentconfigurations, 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/sRecord length = 2.5k points at all-time bases | 01No |  |
| **2** | **Power Supply**Manual Triple Channel DC PS, Number of Outputs = 3, Maximum Voltage = 30VMaximum Current = 3A, Maximum Power = 195W, Connectivity = USBCurrent Read back Resolution = 1mA |  |  |
| **3** | **Digital Multimeter**Maximum Resolution = 5.5, Maximum Reading Speed (per second) = <= 50kConnectivity= 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)

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

The Islamia University of Bahawalpur

**PROCUREMENT OF LAB EQUIPMENTS FOR PLANT PATHOLOGY**

**TENDER-D FORM**

1. Name of Firm: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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3. Phone No: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **4**. Fax No: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

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

**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 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 1HPLint & Seed Box Complete | 01No |  |

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The Islamia University of Bahawalpur

**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 modeWIC and WOC for WBC counting Up to 60 samples per hour throughputWBC 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 differentangles 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, IRF2 Histograms for RBC and PLT2 Scatter grams: 5-part differential scatter gramEosinophils and Moutrophils scatter gram 2 3-D stereograms**Principles ofoperation** WBC/DIFF: Flow Cytometry, Laser light multi-dimensional cell classificationWBC Analysis: Optical and impedance measurementsRBC/PLT Analysis: Impedance methodHGB test: Cyanide-free reagent colorimetryReagent Diluent, Sheath, Detergent ,LyseSampling modes Whole blood : 20μLPre-diluent : 20μLAperture Diameter WBC 100μm，RBC/PLT 68μmThroughput Whole blood : up to 60 samples per hourPre-diluent : up to 60 samples per hourData storage Up to 200,000 sample results with gramsAlarms Error messagesDimension 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 arrangementSingle monochromatorDouble beam typeLight source Halogen lamp, Deuterium lampWavelength range 185 to 1100 nmWavelength accuracy +/-0.2 nm (at 656.1 nm)Wavelength repeatability +/-0.1 nmSpectral bandwidth (SBW) 1 nmStray 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 nmPhotometric range -3~3 AbsPhotometric accuracy +/-0.0015 Abs (0 to 0.5 Abs)+/-0.0025 Abs (0.5 to 1 Abs)+/-0.3 %T Testedwith NIST SRM 930DPhotometric repeatability +/-0.0005 Abs (0 to 0.5 Abs)+/-0.0005 Abs (0.5 to 1 Abs)Tested with NIST SRM 930DScanning speed 10-8000 nm/minSlew speed 24,000 nm/minRMS 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 photodiodeStandard functions IQ accessories, Start button, Analog outputStandard programs Abs/%T meter, Quantitative analysis, Spectrum measurement,Time course measurement, Fixed wavelength measurement, Validation,Daily maintenance,Two wavelength time course measurementDimensions and weight 486(W) x 441(D) x 216(H) mm, 15 kgPower requirements 120 VAInstallation 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 pHpH Resolution 0.1 pH / 0.01 pH / 0.001 pHpH Accuracy ±0.1 pH / ±0.01 pH / ±0.002 pH ± 1LSDpH 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 bufferspH Temperature Compensation automatic or manual from -20.0 to 120.0 °CmV Range ±2000.0 mVmV Resolution 0.1 mVmV Accuracy ±0.2 mV ± 1LSDRelative mV Offset ±2000.0 mVISE Range e.g. 10-7 to 10M/ 0.005 to 105 ppm/ 5·10–7 to 5·107 concISE Resolution 1 conc./ 0.1 conc. / 0.01 conc. / 0.001 concISE 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 solutionsEC 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/cmEC 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 calibrationTDS 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 pptTDS 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 %/°CReference Temperature 5.0 °C to 30.0 °CCell Constant 0.0500 to 200.00Cell Type 4 cellsSalinity (% NaCl) Range 0.0 to 400.0%Salinity (% NaCl) Resolution 0.01%Salinity (% NaCl) Accuracy ±1% of readingSalinity (PSU) Range 0.00 to 42.00 psuSalinity (PSU) Resolution 0.01Salinity (PSU) Accuracy ±1% of readingSalinity (PSU) Calibration one-point (with HI7037 standard)Salinity Range 0.00 to 80.00 pptSalinity Resolution (ppt) 0.01Salinity Accuracy (ppt) ±1% of readingResistivity 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•cmResistivity 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 KTemperature 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, AutoHoldLogging Memory Up to 100 lots, 50,000 records max/lot; maximum 100,000 data points / channelLogging Interval 14 selectable between 1 second and  180 minutesConnectivity Opto-isolated USBGLP 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 yesUSP Compliant USP <645> ApplicationProfiles Up to 10 (5 for each)Display Color Graphic LCD 240 x 320 pixels, 8 keys capacitive touch keyboardPower Supply 12 VDC adapter (included)Environment 0 to 50°C (32 to 122°F; 273 to 323 K), RH max 95% non-condensingDimensions 160 x 231 x 94 mm (6.3 x 9.1 x 3.7”) |  |  |
| **4** | **Digital Balance** Electronic analytical balancewith built-in, motorized calibration weight, dynamic temperature compensation,backlit 8 segment display, two large tare keys, stability indicator, 4 user-selectable filter levels, plus optimizeddisplay update rate========================================Capacity 320 gReadability 0.1 mgTare range (subtractiv) 320 gResponse time (avg.) 3 sRepeatability <=± 0.2 mgLinearity <=± 0.3 mg========================================Pan (inner diameter)\* 80 mmWeighing chamber (WxDxH) 174x181x240 mmBalance housing (WxDxH) 213x342x340 mmNet 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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**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

replaced by the firms on their own cost.

1. Offer must be supported with comprehensive technical literature and specifications in original (English) for the

materials/goods offered.

1. Validity of rate should be for 90 days from the date of opening of tenders.
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-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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**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-H FORM**

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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 =31 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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