



**The Islamia University of Bahawalpur**  
**Institute of Physics**  
Office Ph: 0629255462

No. 13/IoP.  
Dated: 07/01/2022


No :ABG/2021/\_\_\_\_\_

Subject : Quotation for supply of lab Equipments for Institute of Physics (Tender No. 'A')

It is certified that technical proposals of the firms participated in above said tenders were technically evaluated. Detail is given as under:

Sr No.	Name of Firm <u>RASTEK Technologies</u>	RASTEK Technologies	World Wide Engineering
1	<p>P3.6.3 Impedances P3.6.3.1 Determining the impedance in circuits with capacitors and ohmic resistors</p> <p>P3.6.3.2 Determining the impedance in circuits with coils and ohmic resistors</p> <p>P3.6.3.3 Determining the impedance in circuits with capacitors and coils.</p> <p>P3.7.4 Microwaves P3.7.4.1 Directional characteristic and polarization of microwaves in front of a horn antenna</p> <p>P7.3.2 Ferromagnetic hysteresis P7.3.2.1 Recording the initial magnetization curve and the hysteresis curve of a ferromagnet and iron.</p> <p>P6.2.4 Franck-Hertz experiment P6.2.4.1 Franck-Hertz experiment with mercury - Recording with the oscilloscope.</p> <p>P1.8.3 Viscosity P1.8.3.1 Assembling a falling-ball viscosimeter to determine the viscosity of viscous fluids.</p>	Accepted	

Sr No.	Name of Firm World Wide Engineering	RASTEK Technologies	World Wide Engineering
1	<p>32 Channels EEG Flex Gel Sensor N01020003 BESDATA.</p> <p>Advantage of sintered Ag/AgCl electrodes.</p> <p>Heart rate variability patient Monitor CMS8000 China.</p> <p>Power supply: 100-240V~, 50/60HZ Safety classification: Class I, type CF defibrillation-proof applied.</p> <p>Regulated power supply Imported.</p> <p>Function Generator AFG-3021 INSTEK, USA.</p> <p>Cathode rays Oscilloscope INSTEK USA.</p> <p>EEG Caps.</p> <p>Sintered Reusable Electrodes.</p> <p>Gel &amp; Paste.</p> <p>AFG-3000 Series.</p>		Accepted

  
 Director  
 Institute of Physics  
 DIRECTOR  
 Institute of Physics  
 Anna University of Technology

07/11/22





**The Islamia University of Bahawalpur**  
Faculty of Veterinary & Animal Sciences  
**Department of Anatomy and Histology**  
Ph: 062-9255567, E-mail: anatomyhistology@iub.edu.pk



No. ANAT-14/2022-1

Dated: 05-01-2022

**Subject: Evaluation of Technical Quotations for Purchase of Equipment and Instruments for the Department of Anatomy & Histology (Veterinary)**


After evaluation of the technical quotations received for Equipment and Instruments Tender-B {Purchase of Equipment and Instruments for the Department of Anatomy and Histology (Veterinary)} floated by The Islamia University of Bahawalpur on 10-12-2021, opened in SMPC meeting on 27-12-2021, the technical quotations of following firms/suppliers have been found according to the required specifications:

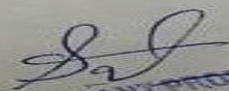
**Tender B {Purchase of Equipment and Instruments for the Department of Anatomy & Histology (Veterinary)}**

Sr. No.	Name	Qty	M/s Advance System	M/s Scien Tec	M/s FAB Engineering Solution	M/s World Wide Engineering
1	Stereo / Dissecting Microscope Binocular with double light, double objective	01	Accepted	Accepted	Accepted	Accepted
2	Micropipette dispenser set (02-20µl, 20-200µl, 100-1000µl)	01	Accepted	Did not quote	Did not quote	Did not quote
3	Tub made up of stainless steel of 16 gauge with lid, flat bottom. Length 4 feet, width 2 feet & 6 inch, height 2 feet with rubber rim on top border edges, With wheel stand	01	Not accepted (Not as per required specifications)	Did not quote	Did not quote	Accepted
4	Rack (height 5 feet, length 3 feet, width 1 foot & 4 inch): Frame made up of 1.5 inch steel angles (with holes for shelf height adjustment) with 04 shelves of 16 gauge stainless steel	01	Accepted	Did not quote	Did not quote	Accepted
5	Monopan Balance, d=0.01 g, Weighing Capacity 3000g, multiple standard units, backlit digital display.	01	Accepted	Did not quote	Did not quote	Accepted
6	Slide Cabinet made up of steel with 05 drawers (1000 slides capacity)	01	Did not quote	Did not quote	Did not quote	Accepted
7	X-Ray Film viewer LED	01	Accepted	Did not quote	Did not quote	Accepted
8	Water Distillation Apparatus, Borosilicate Glass, 4 liters per hour capacity, Metal / Quartz Heater	01	Did not quote	Did not quote	Did not quote	Accepted

Page 1 of 2

  
**ASSISTANT PROFESSOR**  
Department of Anatomy & Histology  
Faculty of Veterinary & Animal Sciences  
The Islamia University of Bahawalpur

  
**ASSISTANT PROFESSOR**  
Department of Anatomy & Histology  
Faculty of Veterinary & Animal Sciences  
The Islamia University of Bahawalpur

  
**ASSISTANT PROFESSOR**  
Department of Anatomy & Histology  
Faculty of Veterinary & Animal Sciences  
The Islamia University of Bahawalpur


  
**CHAIRMAN**  
Department of Anatomy & Histology  
Faculty of Veterinary & Animal Sciences  
The Islamia University of Bahawalpur

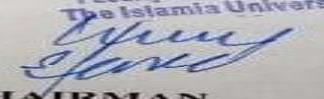
9	Jet box / pet carrier, length 1.5 feet, height, 1 foot and width 1 foot.	01	Did not quote	Did not quote	Did not quote	Did not quote
10	Dissection / postmortem set containing 1 stainless chopper, 1 autopsy knife curved, 1 skinning knife curved, 1 boning knife pointed, 1 sharpening steel 25 cm (stainless steel with plastic handle), 1 bone saw, 1 brain knife stainless, 1 bone scissors stainless, 2 surgical knife with blade, 1 nursing scissors, 1 straight scissors, 1 rochester pean straight, 1 tape measure 2 m. Complete kit in stainless steel box with removable tray	01	Did not quote	Did not quote	Did not quote	Did not quote
11	Vertical refrigerator, double door (one side refrigerator 343 liter and one side freezer 217 liter), twin inverter, digital temperature control	01	Did not quote	Did not quote	Did not quote	Accepted
12	Haemocytometer set	02	Did not quote	Did not quote	Did not quote	Accepted
13	Centrifuge Machine. Speed up to 5000 rpm, rotor capacity 6x15ml/10ml/7ml/1.5-5ml, Run Time 30sec-99min, Display LCD	01	Accepted	Not accepted (Not as per required specifications)	Accepted	Did not quote
14	Microwave oven, capacity 30 liter, digital display and control panel, power output 900 watt	01	Accepted	Did not quote	Did not quote	Accepted
15	Micrometers (stage and eyepiece)	02	Did not quote	Did not quote	Did not quote	Accepted

**Signatures of Purchase / Inspection Committee**

  
**Convener**  
**ASSISTANT PROFESSOR**  
 Department of Anatomy & Histology  
 Faculty of Veterinary & Animal Sciences  
 The Islamia University of Bahawalpur

  
**Member**  
**ASSISTANT PROFESSOR**  
 Department of Anatomy & Histology  
 Faculty of Veterinary & Animal Sciences  
 The Islamia University of Bahawalpur

  
**ASSISTANT PROFESSOR**  
 Member  
 Department of Anatomy & Histology  
 Faculty of Veterinary & Animal Sciences  
 The Islamia University of Bahawalpur

  
**CHAIRMAN**  
 Department of  
 Anatomy and Histology  
**CHAIRMAN**  
 Department of Anatomy & Histology  
 Faculty of Veterinary & Animal Sciences  
 The Islamia University of Bahawalpur





# The Islamia University of Bahawalpur

Faculty of Veterinary & Animal Sciences

## Department of Epidemiology and Public Health

Ph: 062-9255567, E-mail: epidemiologypublichealth@iub.edu.pk



No. EPI-4/2022-1

Dated: 05-01-2022

### Subject: Evaluation of Technical Quotations for Purchase of Permanent Equipment Department of Epidemiology & Public Health (Veterinary)

After evaluation of the technical quotations received for Permanent Equipment Tender-C {Purchase of Permanent Equipment Department of Epidemiology & Public Health (Veterinary)} floated by The Islamia University of Bahawalpur on 10-12-2021, opened in SMPC meeting on 27-12-2021, the technical quotations of following firms/suppliers have been found according to the required specifications:

#### Tender C {Purchase of Permanent Equipment Department of Epidemiology & Public Health (Veterinary)}

Sr. No.	Name	Qty	M/S Rays Technologies	M/S Advance System	M/S FAB Engineering Solution	M/S World Wide Engineering	M/S Dua Enterprises	M/S F. A Traders
1	UV Trans Illuminator <ul style="list-style-type: none"> <li>Visible light (60W)</li> <li>Transmission wave length (302nm + 0.5%)</li> <li>UV Intensity (ultraviolet intensity of 20μW/cm2)</li> <li>Power supply 220 + 10%</li> </ul>	01	Accepted	Did not quote	Did not quote	Did not quote	Accepted	Accepted
2	Inverted microscope <ul style="list-style-type: none"> <li>Trinocular viewing head</li> <li>Illumination (Halogen Lamp / LED)</li> <li>Centering telescope</li> <li>High point extra wide eyepiece</li> </ul>	01	Did not quote	Accepted	Accepted	Accepted	Accepted	Accepted

#### Signatures of Purchase / Inspection Committee

**PROF. DR. MUSARRAT ABBAS KHAN**  
Deptt. of Animal Breeding & Genetics  
Faculty of Veterinary & Animal Sciences  
The Islamia University of Bahawalpur

**CHAIRMAN**  
Department of Animal Nutrition  
Faculty of Veterinary & Animal Sciences  
The Islamia University of Bahawalpur

**Dr. Muhammad Shahzad**  
Associate Professor  
College of Veterinary Sciences  
Islamia University, Bahawalpur

**Member**  
Department of Clinical Medicine & Surgery  
The Islamia University of Bahawalpur

**CHAIRMAN**  
Department of Epidemiology & Public Health  
Faculty of Veterinary & Animal Sciences  
The Islamia University of Bahawalpur





The Islamia University of Bahawalpur  
Faculty of Veterinary and Animal Sciences  
Department of Animal Breeding and Genetics  
dr.makhan@iub.edu.pk, animalbreedinggenetics@iub.edu.pk



No: FV&AS/ABG/2021/

Dated: \_\_\_\_\_

**Subject: Technical Evaluation Report for tender "D/21-22 Roughages & Concentrates & Supplements For Veterinary Parb Project 656. Due Date 27.12.2021"**

It is submitted that meeting of **purchase committee** for PARB Project 656 was held for technical evaluation of Tender D/21-22 dated 30.12.2021.  
The list of items along with their specifications and decision of committee is tabulated below:

Sr. #	Name of Item	Quantity	Estimated Cost (Rs)	World Wide Engineering	Muhammad Zahid Enterprises
1	Roughages Green fodders(Seasonal)			Not Accepted	Accepted
2	Wheat Straw (Bhusa)			Not Accepted	Accepted
3	Silage			Not Accepted	Accepted
4	Wanda (16-18% CP)			Not Accepted	Accepted
5	Mineral mixture (Imported quality)			Not Accepted	Accepted
6	Gurh			Not Accepted	Accepted
7	DCP (Organic source)			Not Accepted	Accepted
8	Common salt (Solid and crushed)			Not Accepted	Accepted

**Dr. Musarrat Abbas Khan**  
Professor/Chairman  
Department of ABG  
Project Manager PARB Project: 656  
PROJECT MANAGER  
PARB Project No.656 UCV & AS  
The Islamia University of Bahawalpur

**Dr. Zahid Kamran**  
Associate Professor  
Department of Animal Nutrition  
Tenured Associate Professor  
Department of Animal Nutrition  
Faculty of Veterinary & Animal Sciences  
The Islamia University of Bahawalpur

**Dr. Muhammad Naeem Tahir**  
Assistant Professor  
Department of Livestock Management  
30/12/2021

Dr. Muhammad Naeem Tahir  
Assistant Professor  
Univ. College of Vet. & Anim. Sciences  
The Islamia Univ. of Bahawalpur





786

# The Islamia University of Bahawalpur

Faculty of Agriculture &amp; Environment

Department of Horticultural Sciences

E-mail: [horticulture@iub.edu.pk](mailto:horticulture@iub.edu.pk)

Ph: 062-9255874



The Treasurer  
The Islamia University of Bahawalpur

Subject: COMPARATIVE STATEMENT OF QUOTATIONS FOR CENTRIFUGE MACHINE

Respected sir,

Purchase of High-Speed Centrifuge Machine for Department of Horticultural Sciences FA&E IUB; technical quotations from three suppliers were received which were opened during the SMPC meeting; dated 27 December 2021 held at the Office of Dean, Faculty of Pharmacy, IUB. The comparative statement of bidder quotes based on technical specification is given below:

	Items	Specifications	Remarks
1	<b>Key Scientific Corporation</b>	<b>High Speed Refrigerated Centrifuge Machine</b> 230 V 50 Hz, maintenance free brush-less motor with a speed range of 18000 rpm & Max. RCF: 23,542xg microcontroller with automatic rotor identification, LCD- Display for the preselection of all centrifuge parameters 10 each curves of acceleration and deceleration, simple starting, Temperature control range -20 to +40°C, with built in time display, range 0 – 99hr to infinite, Operated on 220 Volts <b>Special Features:</b> <b>Distinct Control Panel</b> Splash proof digital display. Permanent indication of Preset and Actual Values. Selection of speed in both rpm and g-force, with increments of 10. Preselection of running time from 10 sec to 99h 59min or continuous. Storage of up to ninety runs incl. rotor type. Diagnostic program. <b>Specifications:</b> Maintenance-free induction drive. Motor driven lid lock. Automatic rotor identification system with over load, immediately upon rotor insertion. Active imbalance- identification and –cut off (rotor specific). Imbalance	Rejected as specifications not better than coted tender

1

af-18





# The Islamia University of Bahawalpur

Faculty of Agriculture & Environment

Department of Horticultural Sciences

E-mail: [horticulture@iub.edu.pk](mailto:horticulture@iub.edu.pk)

Ph: 062-9255874

		CFC free refrigeration system. Manufactured according to international safety regulations, i.e., IEC 1010. er 60 dBA at max speed. Complete with Rotor operated on 220 Volts <b>Model &amp; Make:</b> Z326K, Hermle, Germany	
	<b>The Worldwide Scientific</b>	<b>Benchtop High Speed Refrigerated Centrifuge</b> Microprocessor Control. Multistage damping system, Freon free compressor, low noise, stainless steel centrifugal chamber. Can be configured 0.5ml, 1.5ml, 2ml, 5ml, 10ml, 15ml, 50ml and several kinds of adapters. Pre-cooling design for the chamber, fast cooling, high efficiency. Over speed, over-temperature, door interlock, imbalance protection, ensures safety. This centrifuge is comprehensive design, combined the functions of Low speed and high-speed centrifuge. Data can be saved automatically. RCF values can be set up directly, durable and easy to use. Brushless convertor motor which has high torque and maintenance-free. <b>Technical Specifications:</b> Temperature Range: -20°C~+ 40°, Speed: 21000rpm, RCF: 29140xg, Capacity: 4x250ml, Timing Range: 1-99min, Temperature Accuracy: ±2°C, Speed Accuracy: ±20rpm, Acceleration: 1-10sec, Deceleration: 1-10sec, Screen: LED Screen, Voltage: AC 220V, 50/60Hz, 5A, Dimension(mm): 620x510x355, Weight(kg): 78 <b>Accessories:</b> Rotors: Capacity: Max. Speed: Max. RCF: Angle Rotor, 24x1.5ml/2.0ml, 16000rpm, 23800xg Angle Rotor, 12x15ml, 13000rpm, 19495xg Angle Rotor, 6x50ml, 13000rpm, 18850xg <b>Model &amp; Make:</b> Inno-MC21R M/s INNOTECH-USA	Selected as specifications are better than coted in tender.
	<b>S.U. Enterprises</b>	<b>High Speed Centrifuge Machine</b> <b>Technology:</b> Special lid locking device, Effortless closing and opening of the lid with one hand, ergonomically arranged controls and displays, viewing port in the lid, 10 complete running programs can be stored and recalled.	Rejected as specifications not better





786

## The Islamia University of Bahawalpur

Faculty of Agriculture &amp; Environment

Department of Horticultural Sciences

E-mail: [horticulture@iub.edu.pk](mailto:horticulture@iub.edu.pk)

Ph: 062-9255874

	<p><b>Safety:</b> Metal housing and lid, centrifuging chamber of stainless steel, Lid dropping protection, Lid locking and holding during rotor run, Emergency lid lock release, Motor overheating protection, Chamber overheating protection with UNIVERSAL 320R, Temp controllable -20 to +40C, Imbalance switch-off, easily exchangeable rotors, Automatic rotor recognition.</p> <p><b>Specifications:</b> Max Speed: 16000rpm, Max RCF: 24900xg, Max Capacity: 4x200ml, Temperature range: -20 to +40C, Timer: 1-99min or continuous, short cycle: impulse key for short cycle. Angle Rotor: Capacity: 24x1.5ml, Speed: 16000rpm, RCF: 24900xg Angle Rotor: Capacity: 6x50ml Falcon tube with adaptor of 15ml Falcon tube, Speed: 9000rpm, RCF: 9509xg</p> <p><b>Model &amp; Make:</b> Universal 320R Hettich – Germany</p>	than in coted tender
--	--	----------------------

### Departmental Research Committee

Dr Muhammad Nafees (Associate Professor)

Dr. Muhammad Rashid Shaheen (Associate Professor)

Dr. Waseem Haider (Assistant Professor)

  
31/12/2021  
Chairman Horticulture



786

**The Islamia University of Bahawalpur**  
Faculty of Agriculture & Environment  
Department of Horticultural Sciences  
E-mail: [horticulture@iub.edu.pk](mailto:horticulture@iub.edu.pk) Ph: 062-9255874



The Treasurer  
The Islamia University of Bahawalpur

Subject: **COMPARATIVE STATEMENT OF QUOTATIONS FOR CENTRIFUGE MACHINE**

Respected sir,

Purchase of Fluorescent system, Chlorophyll system, Fruit Pressure Tester, Portable leaf area meter and Portable digital refractometer for Department of Horticultural Sciences FA&E IUB; technical quotations from three suppliers were received which were opened during the SMPC meeting, dated 27 December 2021 held at the Office of Dean, Faculty of Pharmacy, IUB. The comparative statement of bidder quotes based on technical specification is given below:

		Specifications	Remarks
1.	<b>Al-Jannat Enterprises</b>	<p><b>1. Fluorescent system</b> Available LEDs and detectors for spectroscopy; LEDs: 448 nm, 530 nm, 590 nm, 655 nm (2x), 730 nm, 810 nm, 880 nm, 950 nm (2x); Detectors: 400-700 nm, 700-1150 nm; Ambient temperature <math>\pm 0.5^{\circ}\text{C}</math>; Contactless leaf temperature <math>\pm 0.1^{\circ}\text{C}</math> in the <math>30\text{-}40^{\circ}\text{C}</math> range; Relative humidity <math>\pm 3\%</math>; Barometric pressure <math>\pm 0.25\%</math>; Measure leaf angle (wilt) and cardinal direction; External sensor connector for ultimate modability.</p> <p><b>Special Features:</b> <b>Distinct Control Panel</b> Automatically adds location and time stamp to all measurements; Automatic firmware updates through Mobile or Desktop App; Optimized power management to reduce overall power consumption; Collected measurements will be cached, allowing you to take measurements in remote locations.</p> <p><b>Specifications:</b> 5500 mAh internal battery, will last all day for typical use; Ergonomic design, right or left-handed; Measure cuvette (algae) or leaf seamlessly <b>Model &amp; Make:</b> Photosynq V2, PhotosynQ LLC, USA.</p> <p><b>2. Chlorophyll system</b> Available LEDs and detectors for spectroscopy; LEDs: 448 nm, 530 nm, 590 nm, 655 nm (2x), 730 nm, 810 nm, 880 nm, 950 nm (2x); Detectors: 400-700 nm, 700-1150 nm; Ambient temperature <math>\pm 0.5^{\circ}\text{C}</math>;</p>	Selected





# The Islamia University of Bahawalpur

Faculty of Agriculture & Environment

Department of Horticultural Sciences

E-mail: [horticulture@iub.edu.pk](mailto:horticulture@iub.edu.pk)

Ph: 062-9255874

Contactless leaf temperature  $\pm 0.1^{\circ}\text{C}$  in the  $30\text{-}40^{\circ}\text{C}$  range; Relative humidity  $\pm 3\%$ ; Barometric pressure  $\pm 0.25\%$ ; Measure leaf angle (wilt) and cardinal direction; External sensor connector for ultimate modability.

## Special Features:

### Distinct Control Panel

Automatically adds location and time stamp to all measurements; Automatic firmware updates through Mobile or Desktop App; Optimized power management to reduce overall power consumption; Collected measurements will be cached, allowing you to take measurements in remote locations.

## Specifications:

5500 mAh internal battery, will last all day for typical use; Ergonomic design, right or left-handed; Measure cuvette (algae) or leaf seamlessly

**Model & Make:** Photosynq V2, PhotosynQ LLC, USA.

### 3. Fruit Pressure Tester

This tool is perfectly fit to detect picking maturity and control fruit softening during cold storage. It measures the pressure necessary to force a plunger of specified size into the pulp of fruit. Although this meter is a complex and delicate instrument, its durable structure will allow many years of use if proper operating techniques are developed.

## Special features:

Max. capacity:  $20\text{Kgf} \times 0.01\text{ Kgf}$  (10 gf); 3 kind display unit: Kg, Lb, Newton; use load cell sensor, high precision; digital display with peak hold function, easy measurement; Large LCD display with back light; plunger size: 8 mm, 11 mm, USB cable and data acquisition; professional test stand (compulsory)

## Accessories:

Operating manual; 11 mm penetrometer tip; 8 mm penetrometer tip; Fruit peeler; Carrying case

**Model & Make:** 53205, T.R. Turoni, Italy.

### 4. Portable leaf area meter

Leaf area; average area; length; width; perimeter and ratio of length and width; PC connected.

## Special Features:

### Distinct Control Panel

Test unit: square millimeter, square centimeter; Precision:  $\pm 2\%$ ; Resolution:  $0.01\text{ cm}^2$

## Specifications:

2





# The Islamia University of Bahawalpur

Faculty of Agriculture &amp; Environment

Department of Horticultural Sciences

E-mail: [horticulture@iub.edu.pk](mailto:horticulture@iub.edu.pk)

Ph: 062-9255874

		<p>Measuring length: <math>\leq 1000</math> mm; Measuring width: <math>\leq 160</math> mm; Thickness: <math>\leq 8</math> mm; Data capacity: <math>\geq 1000</math> Groups</p> <p><b>Model &amp; Make:</b> YJM-B, Zhe Jiang Top Cloud-Agri Technology Co., Ltd., China.</p> <p><b>5. Portable digital refractometer</b> Small and portable, user friendly; 2AAA batteries; can accurately test anytime and anywhere; Touch key, comfortable and beautiful; Special designed sample place, avoid sample spiling, easy to clean; Wide measuring range, suitable for almost any liquid measurement such as fruit juice, food and drink; Display mode: large LCD display.</p> <p><b>Special Features:</b> <b>Distinct Control Panel</b> Measuring range 0-45%; Resolution: Sugar (Brix) 0.1% temperature 0.1°C; Accuracy: Sugar (Brix) <math>\pm 0.2\%</math> temperature 0.5°C; Sample volume 0.3 mL; Respond time: 3 seconds</p> <p><b>Specifications:</b> Power supply: AAA<math>\times 2</math>; Battery life: About 8000 times</p> <p><b>Model &amp; Make:</b> PAL 3, ATAGO Co. Ltd., Japan.</p>	
2.	<b>The Worldwide Scientific</b>	<p><b>1. Fluorescent system</b> Not given</p> <p><b>2. Chlorophyll system</b> Chlorophyll meter TYS-B is a compact, lightweight meter that can be used to determine the amount of chlorophyll present in plant leaves. The amount of chlorophyll present in plant leaves can serve as an indicator of the overall condition of the plant itself. In general, healthier plants will contain more chlorophyll than less healthy ones.</p> <p><b>Special features:</b> Measuring area 2mm <math>\times</math> 2 mm; measuring mode: 2-wavelength concentration difference of optical methods; Sensors: silicon semiconductor; Accuracy: <math>\pm 3.0</math> SPAD; <math>\pm 0.5^\circ\text{C}</math>; weight: 200 grams</p> <p><b>3. Fruit Pressure Tester</b></p>	Rejected as specification not better than coted in tender





## The Islamia University of Bahawalpur

Faculty of Agriculture & Environment

Department of Horticultural Sciences

E-mail: [horticulture@iub.edu.pk](mailto:horticulture@iub.edu.pk)

Ph: 062-9255874

This tool is perfectly fit to detect picking maturity and control fruit softening during cold storage. It measures the pressure necessary to force a plunger of specified size into the pulp of fruit. Although this meter is a complex and delicate instrument, its durable structure will allow many years of use if proper operating techniques are developed.

**Special features:**

Max. capacity: 20Kgf  $\times$  0.01 Kgf (10 gf); 3 kind display unit: Kg, Lb, Newton; use load cell sensor, high precision; digital display with peak hold function, easy measurement; Large LCD display with back light; plunger size: 8 mm, 11 mm, USB cable and data acquisition; professional test stand (compulsory)

**Accessories:**

Operating manual; 11 mm penetrometer tip; 8 mm penetrometer tip; Fruit peeler; Carrying case

**Model & Make:** 53205, T.R. Turoni, Italy.

**4. Portable leaf area meter**

Leaf area; average area; length; width; perimeter and ratio of length and width; PC connected.

**Special Features:**

**Distinct Control Panel**

Test unit: square millimeter, square centimeter; Precision:  $\pm 2\%$ ; Resolution: 0.01 cm<sup>2</sup>

**Specifications:**

Measuring length:  $\leq 1000$  mm; Measuring width:  $\leq 160$  mm; Thickness:  $\leq 8$  mm; Data capacity:  $\geq 1000$

Groups

**Model & Make:** YJM-B, Zhe Jiang Top Cloud-Agri Technology Co., Ltd., China.

**5. Portable digital refractometer**

Small and portable, user friendly; 2AAA batteries; can accurately test anytime and anywhere; Touch key, comfortable and beautiful; Special designed sample place, avoid sample spiling, easy to clean; Wide measuring range, suitable for almost any liquid measurement such as fruit juice, food and drink; Display mode: large LCD display.

**Special Features:**

**Distinct Control Panel**

Measuring range 0-45%; Resolution: Sugar (Brix) 0.1% temperature 0.1°C; Accuracy: Sugar (Brix)  $\pm 0.2\%$  temperature 0.5°C; Sample volume 0.3 mL; Respond time: 3 seconds

**Specifications:**

4





# The Islamia University of Bahawalpur

Faculty of Agriculture &amp; Environment

Department of Horticultural Sciences

E-mail: [horticulture@iub.edu.pk](mailto:horticulture@iub.edu.pk)

Ph: 062-9255874

		Power supply: AAA×2; Battery life: About 8000 times <b>Model &amp; Make:</b> PAL 1, ATAGO Co. Ltd., Japan.	
3.	M. Zahid Enterprises	<p><b>1. Fluorescent system</b> Available LEDs and detectors for spectroscopy; LEDs: 448 nm, 530 nm, 590 nm, 655 nm (2x), 730 nm, 810 nm, 880 nm, 950 nm (2x); Detectors: 400-700 nm, 700-1150 nm; Ambient temperature <math>\pm 0.5^{\circ}\text{C}</math>; Contactless leaf temperature <math>\pm 0.1^{\circ}\text{C}</math> in the 30-40°C range; Relative humidity <math>\pm 3\%</math>; Barometric pressure <math>\pm 0.25\%</math>; Measure leaf angle (wilt) and cardinal direction; External sensor connector for ultimate modability. <b>Special Features:</b> <b>Distinct Control Panel</b> Automatically adds location and time stamp to all measurements; Automatic firmware updates through Mobile or Desktop App; Optimized power management to reduce overall power consumption; Collected measurements will be cached, allowing you to take measurements in remote locations. <b>Specifications:</b> 5500 mAh internal battery, will last all day for typical use; Ergonomic design, right or left-handed; Measure cuvette (algae) or leaf seamlessly <b>Model &amp; Make:</b> Photosynq V<sub>2</sub>, PhotosynQ LLC, USA.</p> <p><b>2. Chlorophyll system</b> Available LEDs and detectors for spectroscopy; LEDs: 448 nm, 530 nm, 590 nm, 655 nm (2x), 730 nm, 810 nm, 880 nm, 950 nm (2x); Detectors: 400-700 nm, 700-1150 nm; Ambient temperature <math>\pm 0.5^{\circ}\text{C}</math>; Contactless leaf temperature <math>\pm 0.1^{\circ}\text{C}</math> in the 30-40°C range; Relative humidity <math>\pm 3\%</math>; Barometric pressure <math>\pm 0.25\%</math>; Measure leaf angle (wilt) and cardinal direction; External sensor connector for ultimate modability. <b>Special Features:</b> <b>Distinct Control Panel</b> Automatically adds location and time stamp to all measurements; Automatic firmware updates through Mobile or Desktop App; Optimized power management to reduce overall power consumption; Collected measurements will be cached, allowing you to take measurements in remote locations. <b>Specifications:</b> 5500 mAh internal battery, will last all day for typical use; Ergonomic design, right or left-handed; Measure cuvette (algae) or leaf seamlessly <b>Model &amp; Make:</b> Photosynq V<sub>2</sub>, PhotosynQ LLC, USA.</p>	Selected





## The Islamia University of Bahawalpur

Faculty of Agriculture & Environment

Department of Horticultural Sciences

E-mail: [horticulture@iub.edu.pk](mailto:horticulture@iub.edu.pk)

Ph: 062-9255874

### 3. Fruit Pressure Tester

This tool is perfectly fit to detect picking maturity and control fruit softening during cold storage. It measures the pressure necessary to force a plunger of specified size into the pulp of fruit. Although this meter is a complex and delicate instrument, its durable structure will allow many years of use if proper operating techniques are developed.

#### Special features:

Max. capacity: 20Kgf  $\times$  0.01 Kgf (10 gf); 3 kind display unit: Kg, Lb, Newton; use load cell sensor, high precision; digital display with peak hold function, easy measurement; Large LCD display with back light; plunger size: 8 mm, 11 mm, USB cable and data acquisition; professional test stand (compulsory)

#### Accessories:

Operating manual; 11 mm penetrometer tip; 8 mm penetrometer tip; Fruit peeler; Carrying case

**Model & Make:** 53205, T.R. Turoni, Italy.

### 4. Portable leaf area meter

Leaf area; average area; length; width; perimeter and ratio of length and width; PC connected.

#### Special Features:

##### Distinct Control Panel

Test unit: square millimeter, square centimeter; Precision:  $\pm 2\%$ ; Resolution: 0.01 cm<sup>2</sup>

#### Specifications:

Measuring length:  $\leq 1000$  mm; Measuring width:  $\leq 160$  mm; Thickness:  $\leq 8$  mm; Data capacity:  $\geq 1000$  Groups

**Model & Make:** YJM-B, Zhe Jiang Top Cloud-Agri Technology Co., Ltd., China.

### 5. Portable digital refractometer

Small and portable, user friendly; 2AAA batteries; can accurately test anytime and anywhere; Touch key, comfortable and beautiful; Special designed sample place, avoid sample spiling, easy to clean; Wide measuring range, suitable for almost any liquid measurement such as fruit juice, food and drink; Display mode: large LCD display.

#### Special Features:

##### Distinct Control Panel

Measuring range 0-45%; Resolution: Sugar (Brix) 0.1% temperature 0.1°C; Accuracy: Sugar (Brix)  $\pm 0.2\%$  temperature 0.5°C; Sample volume 0.3 mL; Respond time: 3 seconds

6





786

**The Islamia University of Bahawalpur**  
Faculty of Agriculture & Environment  
Department of Horticultural Sciences  
E-mail: [horticulture@iub.edu.pk](mailto:horticulture@iub.edu.pk) Ph: 062-9255874

		<b>Specifications:</b> Power supply: AAA×2; Battery life: About 8000 times <b>Model &amp; Make:</b> PAL 3, ATAGO Co. Ltd., Japan.	
4.	<b>FAB Engineering solution</b>	<b>1. Fluorescent system</b> Not given <b>2. Chlorophyll system</b> Not given <b>3. Fruit Pressure Tester</b> This tool is perfectly fit to detect picking maturity and control fruit softening during cold storage. It measures the pressure necessary to force a plunger of specified size into the pulp of fruit. Although this meter is a complex and delicate instrument, its durable structure will allow many years of use if proper operating techniques are developed. <b>Special features:</b> Max. capacity: 20Kgf × 0.01 Kgf (10 gf); 3 kind display unit: Kg, Lb, Newton; use load cell sensor, high precision; digital display with peak hold function, easy measurement; Large LCD display with back light; plunger size: 8 mm, 11 mm, USB cable and data acquisition; professional test stand (optional) <b>Accessories:</b> Operating manual; 11 mm penetrometer tip; 8 mm penetrometer tip; Fruit peeler; Carrying case <b>Model &amp; Make:</b> 53205, T.R. Turoni, Italy <b>4. Portable leaf area meter</b> Leaf area; average area; length; width; perimeter and ratio of length and width; PC connected. <b>Special Features:</b> <b>Distinct Control Panel</b> Test unit: square millimeter, square centimeter; Precision: ±2%; Resolution: 0.01 cm <sup>2</sup> <b>Specifications:</b> Measuring length: ≤ 1000 mm; Measuring width: ≤ 160 mm; Thickness: ≤ 8 mm; Data capacity: ≥ 1000 Groups <b>Model &amp; Make:</b> YJM-B, Zhe Jiang Top Cloud-Agri Technology Co., Ltd., China. <b>5. Portable digital refractometer</b>	Rejected as specification not better than coted in tender

7





786

## The Islamia University of Bahawalpur

Faculty of Agriculture &amp; Environment

Department of Horticultural Sciences

E-mail: [horticulture@iub.edu.pk](mailto:horticulture@iub.edu.pk)

Ph: 062-9255874

	<p>Small and portable, user friendly; 2AAA batteries; can accurately test anytime and anywhere; Touch key, comfortable and beautiful; Special designed sample place, avoid sample spiling, easy to clean; Wide measuring range, suitable for almost any liquid measurement such as fruit juice, food and drink; Display mode: large LCD display.</p> <p><b>Special Features:</b> <b>Distinct Control Panel</b> Measuring range 0-45%; Resolution: Sugar (Brix) 0.1% temperature 0.1°C; Accuracy: Sugar (Brix) <math>\pm 0.2\%</math> temperature 0.5°C; Sample volume 0.3 mL; Respond time: 3 seconds</p> <p><b>Specifications:</b> Power supply: AAA<math>\times 2</math>; Battery life: About 8000 times</p> <p><b>Model &amp; Make:</b> PAL 3, ATAGO Co. Ltd., Japan.</p>	
--	--	--

### Departmental Research Committee

Dr Muhammad Nafees (Associate Professor)	Dr. Muhammad Rashid Shaheen (Assistant Professor)	Dr. Waseem Haider (Assistant Professor)

  
Chairman Horticulture



# The Islamia University of Bahawalpur

FACULTY OF VETERINARY & ANIMAL SCIENCES

DEPARTMENT OF MICROBIOLOGY

Ph: 062-9255567, E-mail: microbiology@iub.edu.pk



No. 201  
Date 30-12-2021  
Department of Microbiology  
The Islamia University of Bahawalpur

## Opening of Technical Quotation for Tender G for Purchase of Permanent Items for the Department of Veterinary Opened on 27-12-2021

It is stated that a tender was floated by the Islamia University of Bahawalpur for the procurement of Purchase of permanent Items for Department of Veterinary Tender G. The scientific material purchase committee (SMPC), IUB in its meeting held on 27-12-2021 opened the technical proposals. The technical /evaluation committee of department of microbiology evaluated the technical proposals. The recommendations of the committee are as under:

Sr. No.	Item Name and Specifications	Supplier	Model / Maker	Status	Remarks
1.	<b>Pipetting controller with stand for cell culture:</b> Rechargeable battery (2), Minimum battery capacity of 1000 mAh, Three membrane filters (two having 0.2 µm size), Voltage 110-220 V, Battery discharge working time 5-10 hours when fully charge, Manual control, Accessories (nose pieces)	Rays Technologies	Not Quoted		
		The World Wide Scientific	Levo Plus DLAB SCIENTIFIC	Accepted	
		F.A Traders	Scilogex SCI-FILL	Accepted	
		Royal Systems	Not Quoted		
		Chemical House	Not Quoted		
2.	<b>Biosafety Cabinet Class-II Type A2:</b> Stainless steel, External size (W X D X H) 1500mm x 750mm x 2250mm, Internal size (W X D X H) 1350mm x 600 mm x 660 mm, Two HEPA/ULPA filters with 99.99% efficiency, Noise 55 – 65 dB, UV lamp 30 – 40 W (1), LED lamp / florescent light 10 – 16 W (2), Standard air flow system (30% air exhaust, 70% recirculation), Lightening intensity 900-1,000 W, One power socket, LCD Display with alarms, UV lamp working time, humidity and air flow velocity and warning alarms, Accessories: Extra UV lamp (2), LED lamp / florescent light (2), Base stand (1), Remote control and foot switch	Rays Technologies	BSC-1304IIA2 Suzhou Antai Airtach	Rejected	Not according to specifications
		The World Wide Scientific	BSC-1500IIA2-X BIOBASE	Accepted	
		F.A Traders	BSC-1500IIA2-X BIOBASE	Accepted	
		Royal Systems	BSC-1500IIA2-X BIOBASE	Accepted	
		Chemical House	Not Quoted		

Dr. Mudassar Mohiuddin

Assistant Professor

Department of Microbiology, FV&AS  
The Islamia University of Bahawalpur

Dr. Ali Zohaib

Assistant Professor

Department of Microbiology, FV&AS  
The Islamia University of Bahawalpur

Dr. Azhar Aslam

Assistant Professor


Department of Microbiology, FV&AS  
The Islamia University of Bahawalpur

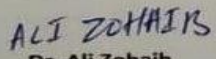
CHAIRMAN

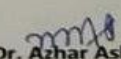
Department of Microbiology, FV&AS  
The Islamia University of Bahawalpur

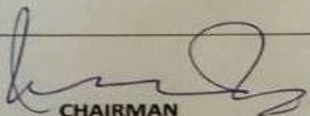


Sr. No.	Item Name and Specifications	Supplier	Model / Maker	Status	Remarks
3.	<b>Micropipette set:</b> 1 µl (range 0.5 µl to 1 µl), 10 µl (range 1 µl to 10 µl), 100 µl (range 10 µl to 100 µl), 200 µl (range 20 µl to 200 µl), 1000 µl (range 1 µl to 1000 µl), Single channel, Manual	Rays Technologies	SCIOGEX	Rejected	Not according to specifications
		The World Wide Scientific	Micropipette Plus DLAB SCIENTIFIC	Accepted	
		F.A Traders	SCIOGEX	Accepted	
		Royal Systems	BIOBASE	Accepted	
		Chemical House	Not Quoted		
4.	<b>Table top refrigerated centrifuge:</b> Maximum Speed 15,000 rpm, RCF 21,000 g, Capacity 24 x 1.5 / 2 ml, Changeable rotor for 5 ml capacity, Temperature range (-8 oC to +40 oC), Time range (1 min to 99 min), Digital display, Voltage (110 – 220), Bio containment lid.	Rays Technologies	Z216MK HERMLE	Rejected	Not according to specifications
		The World Wide Scientific	D1524R DLAB SCIENTIFIC	Rejected	Not according to specifications
		F.A Traders	SCIOGEX SCI24R	Accepted	
		Royal Systems	BKC-TH12R BIOBASE	Rejected	Not according to specifications
		Chemical House	Not Quoted		
5.	<b>Thermal Cycler:</b> Conventional, Sample capacity (96 samples), PCR volume range (0.1 µl to 100 µl), Gradient technology, Well to well accuracy (maximum 0.25 oC to 0.5 oC), Temperature range (4 oC – 99 oC), LCD display, USB support.	Rays Technologies	THERM-1000 MaxyGene II, Corning	Accepted	
		The World Wide Scientific	Minicamp Plus (A37835) THERMO SCIENTIFIC	Accepted	
		F.A Traders	SIMPLI AMP (A24811) THERMO SCIENTIFIC	Accepted	
		Royal Systems	A200 BIOBASE	Accepted	
		Chemical House	T100, Bio-Rad	Accepted	
6.	<b>Autoclave:</b> Instrument should meet typical autoclave requirement for safety, Type (vertical), Capacity 50 L, Material (stainless steel), Temperature range 105 oC to 135 oC, Temperature stability ±1, Thermostat sensor with alarm, Operation fully automatic, Pressure gauge, Pressure safety valve, Digital timer / digital temperature controller, Operation completion alarm, Working pressure 15 psi.	Rays Technologies	FD-50A ZEALWAY	Accepted	
		The World Wide Scientific	LS-50HD JIANGBIN	Accepted	
		F.A Traders	PAMICO	Accepted	
		Royal Systems	BKQ-B50II	Accepted	
		Chemical House	Not Quoted		

  
**Dr. Mudassar Mohiuddin**  
 Assistant Professor  
 Department of Microbiology, FV&AS  
 The Islamia University of Bahawalpur

  
**Dr. Ali Zohaib**  
 Assistant Professor  
 Department of Microbiology, FV&AS  
 The Islamia University of Bahawalpur

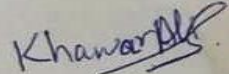
  
**Dr. Azhar Aslam**  
 Assistant Professor  
 Department of Microbiology, FV&AS  
 The Islamia University of Bahawalpur

  
**CHAIRMAN**  
 Department of Microbiology, FV&AS  
 The Islamia University of Bahawalpur

## TECHNICAL EVALUTION REPORT

### PROCUREMENT OF LABORATORY EQUIPMENT, DEPARTMENT OF ZOOLOGY, TENDER H, (Opened on 27-12-2021)

Sr.#	Name of Equipment	M/S Scien Tec	M/S FAB Eng. Sol.	M/S Dua Enterprises	M/S Advance Systems
1.	Compound Biological Trinocular Digital Microscope with Camera and Software (2.0MP), Touch Screen LCD and Infinite Optical System or Equivalent	Accepted	<b>Rejected</b> (LCD Display not provided)	Accepted	Accepted
2.	Stereo Microscope with Camera – OM124L 10x, 20x, 40x Rechargeable LED Stereo Microscope Camera Package or Equivalent	N/Q	Accepted	Accepted	Accepted
3.	Biological Trinocular Microscope with LED Light or Equivalent	N/Q	Accepted	Accepted	Accepted
4.	Professional Precision Balance (5100g, 0.01g, Internal CAL or Equivalent)	N/Q	N/Q	Accepted	<b>Rejected</b> (Capacity of quoted model is 3000g but tender demand is 5100g)
5.	SJCAM SJ5000 WIFI HD Action Camera (Black) Waterproof or Equivalent	N/Q	N/Q	N/Q	Accepted

  
**Member**  
 Assistant Professor  
 Department of Zoology  
 The Islamia University of Bahawalpur

  
**Member**  
 Associate Professor  
 Department of Zoology  
 The Islamia University of Bahawalpur

  
**Member**  
 Assistant Professor  
 Department of Zoology  
 The Islamia University of Bahawalpur

  
**Chairperson**  
 Dr. Nuzhat Sial  
 PROFESSOR & CHAIRPERSON  
 Department of Zoology  
 The Islamia University of Bahawalpur