



**The Islamia University of Bahawalpur**  
Faculty of Veterinary & Animal Sciences  
Department of Livestock Management



Ph: 062-9255567, E-mail: [livestockmanagement@iub.edu.pk](mailto:livestockmanagement@iub.edu.pk)

No. LM-3/2024-17105-

Dated 22/04/2024

The Treasurer,

The Islamia University of Bahawalpur

**Subject: Financial Evaluation of Tender for the purchase of Consumable Supplies and Equipment in a HEC-NRPU Research Project No: 20-17105/NRPU/R&D/HEC/2021 at Department of Livestock Management FV&AS, IUB (Opened on March 21, 2024)**

Respected Sir,

Procurement of consumable supplies and equipment for Research Project No:17105 was opened during the SMPC meeting on March 21, 2024, held at the office of the chairman purchase committee, IUB.

The comparative statement of bidder quotes based on financials is given below and submitted for the purchase process earliest, please.

Sr No	Category	Items name	Specifications	No	Supplier Name	Quotes rate	Total Price	Remarks
1	Consumable supplies	Makkhi Cheeni Beetal kids	At Weaning age, active, alert, breed characteristics, free from disease and any physical faults	12	Green Enterprises services and general order supplier	30000	360000	Single complying bid and accepted
2		Concentrate	Type Fattening ration, Capacity BAG/30KG, Palatable, no adulteration, TDN 70% CP 18-20	23		3500	80500	Single complying bid and accepted
3		Maize Silage	80 Kg per bale with six layers of good quality bale-wrap Packing, pH 3.7, highly palatable with good grain mixture, optimum chop size.	28		1750	49000	Single complying bid and accepted
4		Total mixed ration (TMR)	Capacity BAG/30KG, TMR Type: fattening, Palatability and digestibility High, No Adulteration, CP 18-20	20		3600	72000	Single complying bid and accepted

5	Equipment	Slatted Floor with frame	Pellets as per frame length are made of rugged virgin, high impact polypropylene (EPS30R) plastic material, anti-oxidant, anti-corrosion, anti-UV, one-time molding technology, provide heavy-duty, stronger, durable slat floor for goats up to 440lbs, for 10-15 years along with iron frame, 8*8 foot	1	57000	57000	Single complying bid and accepted
<b>Total Amount</b>						<b>618,500</b>	

A sufficient budget is available under the heads of consumable supplies and equipment. It is, therefore, requested that the supply order to the accepted bidder may kindly be issued for said purpose please.



Dr. Faisal Shahzad  
Associate Professor/Principal Investigator  
Department of Livestock Management  
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Cell # +92-333-4892523

**Signature of Project Purchase Committee at Department of LM**



Member 1/Convener



Member 2



Member 3



Dean FV&AS

Treasurer, IUB



**The Islamia University of Bahawalpur**  
Faculty of Veterinary & Animal Sciences  
Department of Livestock Management



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

No. LM-3/2024-17105-

Dated 22/03/2024

**Subject: Technical Quotation/Comparative statement of Tender for the Purchase of Consumable Supplies and Equipment for Research Project No: 20-17105/NRPU/R&D/HEC/2021 at the Department of Livestock Management (Opened on March 21, 2024)**

Respected Sir,

Procurement of consumable supplies and equipment in an HEC-NRPU Research Project No:17105 of the Department of Livestock Management was opened during the SMPC meeting on March 21, 2024, held at the office of the chairman purchase committee, IUB. The comparative statement of bidder quotes based on technical specification is given below and submitted for the purchase process earliest, please.

Sr No	Category	Items name	Specifications	Supplier Name	Status	Remarks
1	Consumable supplies	Makkhi Cheeni Beetal kids	At Weaning age, active, alert, breed characteristics, free from disease and any physical faults	Green Enterprises services and general order supplier	Accepted	As per specifications
2		Concentrate	Type Fattening ration, Capacity BAG/30KG, Palatable, no adulteration, TDN 70% CP 18-20		Accepted	As per specifications
3		Maize Silage	80 Kg per bale with six layers of good quality bale-wrap Packing, pH 3.7, highly palatable with good grain mixture, optimum chop size.		Accepted	As per specifications
4		Total mixed ration (TMR)	Capacity BAG/30KG, TMR Type: fattening, Palatability and digestibility High, No Adulteration, CP 18-20		Accepted	As per Specification
5	Equipment	Slatted Floor with frame	Pellets as per frame length are made of rugged virgin, high impact polypropylene (EPS30R) plastic material, anti-oxidant, anti-corrosion, anti-UV, one-time molding technology, provide heavy-duty, stronger, durable slat floor for goats up to 440lbs, for 10-15 years along with iron frame, 8*8 foot		Accepted	As per Specification

A sufficient budget is available under the heads of consumable supplies and equipment. It is, therefore, requested that the supply order to the accepted bidder may kindly be issued for said purpose please.



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**Signature of Project Purchase Committee at Department of LM**



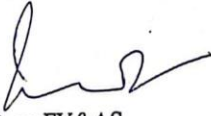
Member 1/Convener



Member 2



Member 3



Dean FV&AS  
DEAN FV&AS  
The Islamic University of Bahawalpur

Treasurer, IUB



The Islamia University of Bahawalpur  
Faculty of Veterinary & Animal Sciences  
Department of Parasitology

Ph No: +92 3334875876, E-mail: rashid.laehari@iub.edu.ok



No. PARA-6/2024-9/

Dated: 31.07.2024

**SUBJECT: Financial evaluation of Tender-B for the purchase of research Equipment under PARB-22-265 project in Department of Parasitology, Faculty of Veterinary & Animals Sciences (Opened on 30-07-2024)**

It is stated that a tender was floated by The Islamia University of Bahawalpur for the procurement of Lab Equipment for the above cited PARB funded research project (22-265) in Department of Parasitology FV&AS (Tender-B). The scientific material purchase committee (SMPC), IUB in its meeting held on 30-07-2024 opened the financial proposals after technical evaluation of BIDs. The departmental purchase committee of Department of Parasitology, FV&AS in its meeting held on 31-07-2024 evaluated the financial proposals. The recommendations of the committee are as under:

Sr. No.	Item Names and Specifications	Supplier	Model / Make	Amount with GST (Rs.)	Remarks
1	<p><b>ELISA reader</b> <b>Specification</b> Detection mode: Absorption, Read-out range: 0-3.500Abs, Resolution: 0.001Abs (displayed), 0.0001 (calculated), Light source: halogen/LED of long life &gt;100,000hours Measurement range: 0-4.0 OD, Wavelength range: 405-750 nm, Wavelength selection: filters (8 filters), Supplied: 8 channel measuring filter wheel provided with 405, 450, 492 and 630 nm with 4 more filters, Bandwidth: &lt;10 nm. Display: 10.4 inch color touch LCD screen with built-in portable computer, Input: touchscreen, Interface/connectivity: RS-232, USB/SD card for computer and printer, Reading speed: 5 sec for 96 well plate (Single wavelength) and 10 sec for double wavelength, Calculation mode: ABS, cut-off, curve, linear regression, index regression, logarithm regression, exponent regression, Memory: 100 programs with 10000 sample records. Reading range: 0.000-4.000Abs, Well coincidence: <math>\leq 0.015A</math>, Linearity: <math>R &gt; 0.999</math>, Repeatability: <math>&lt; 0.3\%</math>, Stability: <math>\leq 0.0001\text{Abs}/10\text{min}</math>, Accuracy: 0.000-2.000 OD/Abs: Better than <math>\pm (1.0-2.0\% + 0.010-0.020\text{ OD})</math>, Precision: 0.000 - 2.000 OD: <math>\pm 1.0\%</math>, 2.000 - 3.000 OD: <math>\pm 1.5\%</math>, Linearity: 0.000 - 2.000 OD: Better than <math>\pm 1.0</math> to 3.0% to 0.010 OD), 2.000 - 3.000 OD: <math>\pm 3.0\%</math> to 0.010 OD), Shaking: Yes with adjustable for time and speed, Software: Suitable and compatible according to the model supplied to support calculation mode for qualitative and quantitative analysis with English language.</p> <p><b>Physical Data</b> Size in Inches (L x W x H in mm): 460x330x190 or according to supplied model original specification, Weight: 5-10 kg according to model original specification.</p> <p><b>Electrical</b> Main power input-Basic instrument with AC adapter, External power supply-110V-220V AC: 50/60 Hz (Auto sensing), max 1.2 A, Power consumption: Standby mode-Approx 12 VA Optional (Wide range of filters and Calibration test plate with software)</p>	Leo Science, Islamabad	Absorbance 96 (Make=Byonoy GmbH, Germany) of Germany)	1,334,900	

Member 1  
Muhammad Rashid  
Chairman  
Department of Parasitology  
Faculty of Veterinary & Animal Sciences  
The Islamia University of Bahawalpur

Member 2  
CHAIRMAN  
Department of Parasitology  
Faculty of Veterinary & Animal Sciences  
The Islamia University of Bahawalpur

Member 3  
Dr. Muhammad Ehsan  
Assistant Professor  
Department of Parasitology  
Faculty of Veterinary and Animal Sciences  
The Islamia University of Bahawalpur

	Includes: All original cables and filters, external jet printer.				
2	<p>4°C and -20 °C cooling chamber</p> <p>Capacity: 13 cu-ft, Gross capacity, 223litres, Cooling technology: 4 way cooling system, Air flow type: multi air flow booster, Product color: grey, External handle: 2 in number, Temperature: 4°C and -20°C, Door lock: Yes, Types of shelf: tempered glass, Total shelves and boxes: 9, Number of cabinet shelves: 3, No of freezer door shelves: 1, No of freezer shelves: 1, No of refrigerator door shelves: 2 (Gallon door shelves), 4°C door pockets: 6, Voltage: 16-260, Dimensions (D×H×W in mm): 620×1563×600, Weight: 58kg</p> <p>Includes: wooden stand</p>	Sahaab International (PVT.) Ltd	MDF-A368 medallion equipment UK	789,000	
3	<p>Orbital shaker</p> <p>Shaking motion: Orbital/convulsion 2D, Control: Microcomouter PID control, Speed range: 15-240, Maximum load capacity: 3-5kg, Amplitude of rotation (mm): 10-30, Orbital diameter: 10-20mm, Motor type: Brushless DC motor, Permissible ambient temperature and humidity: 5-65°C and 80-85%, Sensitivity: ±2, Timer and alarm: 0-99hr 59minute and error status &amp; timer-end, Display: Digital LED, Base platform size (mm): 320×265, Dimension (W×D×H): 3300×480×160mm, Safety circuit: Overload protector for motor, Weight: 7-10kg, Program function: 10 steps and 6 program, Input power: 30W, Output power: 15W, Power supply and cord plug: free voltage (1 phase, AC 90V ~260V, 50/60Hz) with cord/plug, Flask holders: 9ea-20ea.</p> <p>Others: smooth start and change of stirring speed for stable running, storage function (program, RPM and timer) and locking model, Overcurrent protection function, smooth running to prevent liquid splashing.</p> <p>Includes: all original cables</p>	Sahaab International (PVT.) Ltd, Islamabad	MSK-P330 orbital and linear shaker of medallion equipment UK	234,000	

  
**Chairman**  
 Department of Parasitology  
 Faculty of Veterinary & Animal Sciences  
 The Islamic University of Bahawalpur

  
**Dr. Muhammad Rashid**  
 Project Manager/Assistant Professor  
 Department of Parasitology  
 Ph: 03334875876  
 Dr. Muhammad Rashid  
 Assistant Professor  
 Department of Parasitology  
 Faculty of Veterinary and Animal Sciences  
 The Islamic University of Bahawalpur

Signature of Departmental purchase committee

  
**Dr. Muhammad Rashid**  
 Member/Convener  
 Department of Parasitology  
 Faculty of Veterinary and Animal Sciences  
 The Islamic University of Bahawalpur

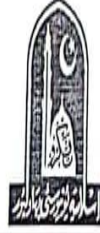
  
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Faculty of Veterinary & Animal Sciences  
Department of Parasitology

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No. PARA-6/2024-35

Dated: 27.03.2024

Technical Quotation of Tender-B for the purchase of research Equipment under PARB project No. 22-265 in Department of Parasitology, Faculty of Veterinary & Animals Sciences (Opened on 21-03-2024)

It is stated that a tender was floated by The Islamia University of Bahawalpur for the procurement of Lab Equipment for the above cited research project (No. 22-265) in laboratory of Department of Parasitology FV&AS (Tender-B). The scientific material purchase committee (SMPC), IUB in its meeting held on 21-03-2024 opened the technical proposals. The departmental purchase committee of Department of Parasitology, FV&AS in its meeting held on 27-03-2024 evaluated the technical proposals. The recommendations of the committee are as under:

Sr. No.	Item Names and Specifications	Supplier	Model/Make	Status	Remarks
1	ELISA reader Specification Detection mode: Absorption, Read-out range: 0-3.500Abs, Resolution: 0.001Abs (displayed), 0.0001 (calculated), Light source: halogen/LED of long life >100,000hours Measurement range: 0-4.0 OD, Wavelength range: 405-750 nm, Wavelength selection: filters (8 filters), Supplied: 8 channel measuring filter wheel provided with 405, 450, 492 and 630 nm with 4 more filters, Bandwidth: <10 nm. Display: 10.4 inch color touch LCD screen with built-in portable computer, Input: touchscreen, Interface/connectivity: RS-232, USB/SD card for computer and printer, Reading speed: 5 sec for 96 well plate (Single wavelength) and 10 sec for double wavelength, Calculation mode: ABS, cut-off, curve, linear regression, index regression, logarithm regression, exponent regression, Memory: 100 programs with 10000 sample records. Reading range: 0.000-4.000Abs, Well coincidence: $\leq 0.015A$ , Linearity: $R > 0.999$ , Repeatability: $< 0.3\%$ , Stability: $\leq \pm 0.0001 \text{ Abs}/10 \text{ min}$ . Accuracy: $0.000 - 2.000 \text{ OD/Abs}$ : Better than $\pm (1.0-2.0\% + 0.010-0.020 \text{ OD})$ , Precision: $0.000 - 2.000 \text{ OD}$ : $\pm 1.0\%$ , $2.000 - 3.000 \text{ OD}$ : $\pm 1.5\%$ .	Leo Science, Islamabad	Absorbance 96 (Make=Byonoy GmbH, Germany) of Germany)	Accepted	
		Sahaab International (PVT.) Ltd, Islamabad	MER-C14 Medallion Equipment UK	Rejected	Not according to tender specification
		Radius Technologies, Multan-60000	Microplate Reader FM-MPR-A103 of UK	Rejected	Not according to tender specification

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Department of Parasitology  
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<p>Linearity: 0.000 – 2.000 OD: Better than <math>\pm 1.0</math> to 3.0% to 0.010 OD), 2.000 – 3.000 OD: <math>\pm 3.0\%</math> to 0.010 OD), Shaking: Yes with adjustable for time and speed, Software: Suitable and compatible according to the model supplied to support calculation mode for qualitative and quantitative analysis with English language.</p> <p><b>Physical Data</b> Size in Inches (L x W x H in mm): 460×330×190 or according to supplied model original specification, Weight: 5-10 kg according to model original specification.</p> <p><b>Electrical</b> Main power input-Basic instrument with AC adapter, External power supply-110V-220V AC: 50/60 Hz (Auto sensing), max 1.2 A, Power consumption: Standby mode-Approx 12 VA Optional (Wide range of filters and Calibration test plate with software) Includes: All original cables and filters, external jet printer,</p>	(South Punjab)			
<p>2</p> <p>4°C and -20 °C cooling chamber Capacity: 13 cu-ft, Gross capacity, 223litres, Cooling technology: 4 way cooling system, Air flow type: multi air flow booster, Product color: grey, External handle: 2 in number, Temperature: 4°C and -20°C, Door lock: Yes, Types of shelf: tempered glass, Total shelves and boxes: 9, Number of cabinet shelves: 3, No of freezer door shelves: 1, No of freezer shelves: 1, No of refrigerator door shelves: 2 (Gallon door shelves), 4°C door pockets: 6, Voltage: 16-260, Dimensions (D×H×W in mm): 620×1563×600, Weight: 58kg Includes: wooden stand</p>	Sahaab International (PVT.) Ltd	MDF-A368 medallion equipment UK	Accepted	
<p>3</p> <p>Orbital shaker Shaking motion: Orbital/convulsion 2D, Control: Microcomputer PID control, Speed range: 15-240, Maximum load capacity: 3-5kg, Amplitude of rotation (mm): 10-30, Orbital diameter: 10-20mm, Motor type: Brushless DC motor, Permissible ambient temperature and humidity: 5-65°C and 80-85%, Sensitivity: <math>\pm 2</math>, Timer and alarm: 0-99hr 59minute and error status &amp; timer-end, Display: Digital LED, Base platform size (mm): 320×265, Dimension (W×D×H): 3300×480×160mm. Safety circuit: Overload protector for motor.</p>	Sahaab International (PVT.) Ltd, Islamabad	MSK-P330 orbital and linear shaker of medallion equipment UK	Accepted	
	Radius Technologies, Multan-60000 (South Punjab)	SHK-O0310111 orbital shaker of US	Rejected	Not according to tender specification

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<p>Weight: 7-10kg, Program function: 10 steps and 6 program, Input power: 30W, Output power: 15W, Power supply and cord plug: free voltage (1 phase, AC 90V ~260V, 50/60Hz) with cord/plug, Flask holders: 9ea-20ea.</p> <p>Others: smooth start and change of stirring speed for stable running, storage function (program, RPM and timer) and locking model, Overcurrent protection function, smooth running to prevent liquid splashing.</p> <p>Includes: all original cables</p>	<p>Leo Science, Islamabad</p>	<p>OS20-Pro Leosci/Joalan orbital shaker of China</p>	<p>Rejected</p>	<p>Not according to tender specification</p>
<p>4</p> <p>Laptop</p> <p>Operating system: Windows 11 Home, Processor: Intel® Core™ i7-1355U (up to 5.0 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 10 cores, 12 threads), Performance Technology: Intel® Evo™ laptop, Graphics: Integrated: Intel® Iris® Xe Graphics, Display: 15.6" diagonal, FHD (1920 x 1080), multitouch-enabled, IPS, edge-to-edge glass, micro-edge, 400 nits, low power, 100% sRGB, Display brightness: 400 nits, Display color gamut: 100% sRGB, Memory: 16 GB LPDDR5-5200 MHz RAM (onboard), Storage: 1 TB PCIe® NVMe™ M.2 SSD, Wireless technology: Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card (supporting gigabit data rate), Power supply: 65 W USB Type-C® power adapter, Battery: 4-cell, 55 Wh Li-ion polymer, Battery life: Up to 15 hours, Video Playback Battery Life: Up to 17 hours, Battery Recharge Time: Supports battery fast charge: approximately 50% in 30 minutes, External I/O Ports: 2 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4, HP Sleep and Charge); 1 USB Type-A 10Gbps signaling rate (HP Sleep and Charge); 1 USB Type-A 10Gbps signaling rate; 1 HDMI 2.1; 1 headphone/microphone combo, Expansion slots: 1 multi-format SD media card reader, Energy efficiency: EPEAT® Gold registered, Webcam: HP Wide Vision 5MP IR camera with temporal noise reduction and integrated dual array digital microphones, Audio Features: Audio by Bang &amp; Olufsen; Dual speakers; HP Audio Boost, Sensors: Accelerometer; eCompass; Gyroscope; IR thermal sensor, Color: Natural silver aluminum, Pointing device: HP Imagepad, Keyboard: Full-size, backlit, soft grey keyboard, Dimensions (W X D X H): 14.07 x 8.99 x 0.72 in, Weight: 3.9 lb, Warranty: 1-year limited</p>	<p>Not quoted by any company/vendor</p>			<p>Not quoted by any company/vendor</p>


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	hardware warranty, Software included: McAfee LiveSafe™ 30-day trial offer (Internet access required. First 30 days included. Subscription required for live updates afterwards.); 1-month Adobe free trial offer (Duet® for HP (30 day free trial)) 1 month trial for new Microsoft 365 customers, Security management: Mic mute key; Camera privacy shutter; Trusted Platform Module (Firmware TPM) support Includes: Leather waterproof fully cushioned bag, Bluetooth mouse, Bluetooth headphone, Original charger.				
5	Printer Color print: No, maximum print speed(b/w): Up to 20ppm mono, Memory capacity (included): 64MB, Including toner (B & W): Yes, Maximum document size: A4; A5; A5(LEF); B5 (JIS); Oficio; Envelope (DL, C5); 76 x 127 to 216 x 356mm Letter; Legal; Executive; Oficio 216x340mm, Oficio 8.5x13 in, Envelope (No.10, Monarch); 4x6 in, Paper storage (capacity): Up to 100 sheets, paper storage (max capacity): Up to 150 sheets, Automatic duplex: Yes, mobile and Wi-Fi support: Yes Warranty: 1 year Includes: All original cables	Not quoted by any company/vendor			Not quoted by any company/vendor

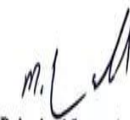
  
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Signature of Departmental purchase committee

  
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Faculty of Veterinary and Animal Sciences  
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DR. TAUSEEF UR REHMAN  
CHAIRMAN  
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Principal Investigator  
Dr. Muhammad Rashid  
Assistant Professor,  
Department of Parasitology  
Faculty of Veterinary and Animal Sciences  
The Islamia University of Bahawalpur



**The Islamia University of Bahawalpur**  
Faculty of Veterinary & Animal Sciences  
Department of Livestock Management



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

No. LM-3/2024-17105-

Dated 22/03/2024


**Subject: Technical Quotation/Comparative statement of Tender for the Purchase of Consumable Supplies and Equipment for Research Project No: 20-17105/NRPU/R&D/HEC/2021 at the Department of Livestock Management (Opened on March 21, 2024)**

Respected Sir,

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2		Concentrate	Type Fattening ration, Capacity BAG/30KG, Palatable, no adulteration, TDN 70% CP 18-20		Accepted	As per specifications
3		Maize Silage	80 Kg per bale with six layers of good quality bale-wrap Packing, pH 3.7, highly palatable with good grain mixture, optimum chop size.		Accepted	As per specifications
4		Total mixed ration (TMR)	Capacity BAG/30KG, TMR Type: fattening, Palatability and digestibility High, No Adulteration, CP 18-20		Accepted	As per Specification
5	Equipment	Slatted Floor with frame	Pellets as per frame length are made of rugged virgin, high impact polypropylene (EPS30R) plastic material, anti-oxidant, anti-corrosion, anti-UV, one-time molding technology, provide heavy-duty, stronger, durable slat floor for goats up to 440lbs, for 10-15 years along with iron frame, 8*8 foot		Accepted	As per Specification

A sufficient budget is available under the heads of consumable supplies and equipment. It is, therefore, requested that the supply order to the accepted bidder may kindly be issued for said purpose please.

  
Dr. Faisal Shahzad  
Associate Professor/Principal Investigator  
Department of Livestock Management  
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Cell # +92-333-4892523

**Signature of Project Purchase Committee at Department of LM**

  
Member 1/Convener

  
Member 2

  
Member 3

  
Dean FV&AS  
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The Islamic University of Bahawalpur

Treasurer, IUB



The Islamia University of Bahawalpur  
Faculty of Veterinary & Animal Sciences  
Department of Parasitology

Ph No: +92 3334875876, E-mail: rashid.laghari@iub.edu.pk



No. PARA-6/2024-35

Dated: 27.03.2024

**Technical Quotation of Tender-B for the purchase of research Equipment under PARB project No. 22-265 in Department of Parasitology, Faculty of Veterinary & Animals Sciences (Opened on 21-03-2024)**

It is stated that a tender was floated by The Islamia University of Bahawalpur for the procurement of Lab Equipment for the above cited research project (No. 22-265) in laboratory of Department of Parasitology FV&AS (Tender-B). The scientific material purchase committee (SMPC), IUB in its meeting held on 21-03-2024 opened the technical proposals. The departmental purchase committee of Department of Parasitology, FV&AS in its meeting held on 27-03-2024 evaluated the technical proposals. The recommendations of the committee are as under:

Sr. No.	Item Names and Specifications	Supplier	Model/Make	Status	Remarks
1	<b>ELISA reader</b> <b>Specification</b> <b>Detection mode:</b> Absorption, <b>Read-out range:</b> 0-3.500Abs, <b>Resolution:</b> 0.001Abs (displayed), 0.0001 (calculated), <b>Light source:</b> halogen/LED of long life >100,000hours <b>Measurement range:</b> 0-4.0 OD, <b>Wavelength range:</b> 405-750 nm, <b>Wavelength selection:</b> filters (8 filters), <b>Supplied:</b> 8 channel measuring filter wheel provided with 405, 450, 492 and 630 nm with 4 more filters, <b>Bandwidth:</b> <10 nm. <b>Display:</b> 10.4 inch color touch LCD screen with built-in portable computer, <b>Input:</b> touchscreen, <b>Interface/connectivity:</b> RS-232, USB/SD card for computer and printer, <b>Reading speed:</b> 5 sec for 96 well plate (Single wavelength) and 10 sec for double wavelength, <b>Calculation mode:</b> ABS, cut-off, curve, linear regression, index regression, logarithm regression, exponent regression, <b>Memory:</b> 100 programs with 10000 sample records. <b>Reading range:</b> 0.000-4.000Abs, <b>Well coincidence:</b> $\leq 0.015\lambda$ , <b>Linearity:</b> $R > 0.999$ , <b>Repeatability:</b> <0.3%, <b>Stability:</b> $\leq \pm 0.0001\text{Abs}/10\text{min}$ . <b>Accuracy:</b> 0.000- 2.000 OD/Abs: Better than $\pm (1.0-2.0\% + 0.010-0.020 \text{ OD})$ , <b>Precision:</b> 0.000 - 2.000 OD: $\pm 1.0\%$ . 2.000 - 3.000 OD: $\pm 1.5\%$ .	Leo Science, Islamabad	Absorbance 96 (Make=Byonoy GmbH, Germany) of Germany)	Accepted	
		Sahaab International (PVT.) Ltd, Islamabad	MER-C14 Medallion Equipment UK	Rejected	Not according to tender specification
		Radius Technologies. Multan-60000	Microplate Reader FM- MPR-A103 of UK	Rejected	Not according to tender specification

  
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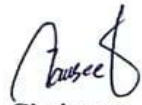
	<p><b>Linearity:</b> 0.000 – 2.000 OD: Better than <math>\pm 1.0</math> to 3.0% to 0.010 OD), 2.000 – 3.000 OD: <math>\pm 3.0\%</math> to 0.010 OD), <b>Shaking:</b> Yes with adjustable for time and speed, <b>Software:</b> Suitable and compatible according to the model supplied to support calculation mode for qualitative and quantitative analysis with English language.</p> <p><b>Physical Data</b>  <b>Size in Inches (L x W x H in mm):</b> 460×330×190 or according to supplied model original specification, <b>Weight:</b> 5-10 kg according to model original specification.</p> <p><b>Electrical</b>  Main power input-Basic instrument with AC adapter, External power supply-110V-220V AC: 50/60 Hz (Auto sensing), max 1.2 A, Power consumption: Standby mode-Approx 12 VA Optional (Wide range of filters and Calibration test plate with software)</p> <p><b>Includes:</b> All original cables and filters, external jet printer,</p>	(South Punjab)			
2	<p><b>4°C and -20 °C cooling chamber</b>  <b>Capacity:</b> 13 cu-ft, <b>Gross capacity,</b> 223litres, <b>Cooling technology:</b> 4 way cooling system, <b>Air flow type:</b> multi air flow booster, <b>Product color:</b> grey, <b>External handle:</b> 2 in number, <b>Temperature:</b> 4°C and -20°C, <b>Door lock:</b> Yes, <b>Types of shelf:</b> tempered glass, <b>Total shelves and boxes:</b> 9, <b>Number of cabinet shelves:</b> 3, <b>No of freezer door shelves:</b> 1, <b>No of freezer shelves:</b> 1, <b>No of refrigerator door shelves:</b> 2 (Gallon door shelves), <b>4°C door pockets:</b> 6, <b>Voltage:</b> 16-260, <b>Dimensions (D×H×W in mm):</b> 620×1563×600, <b>Weight:</b> 58kg</p> <p><b>Includes:</b> wooden stand</p>	Sahaab International (PVT.) Ltd	MDF-A368 medallion equipment UK	Accepted	
3	<p><b>Orbital shaker</b>  <b>Shaking motion:</b> Orbital/convulsion 2D, <b>Control:</b> Microcomouter PID control, <b>Speed range:</b> 15-240, <b>Maximum load capacity:</b> 3-5kg, <b>Amplitude of rotation (mm):</b> 10-30, <b>Orbital diameter:</b> 10-20mm, <b>Motor type:</b> Brushless DC motor, <b>Permissible ambient temperature and humidity:</b> 5-65°C and 80-85%, <b>Sensitivity:</b> <math>\pm 2</math>, <b>Timer and alarm:</b> 0-99hr 59minute and error status &amp; timer-end, <b>Display:</b> Digital LED, <b>Base platform size (mm):</b> 320×265, <b>Dimension (W×D×H):</b> 3300×480×160mm. <b>Safety circuit:</b> Overload protector for motor.</p>	Sahaab International (PVT.) Ltd, Islamabad	MSK-P330 orbital and linear shaker of medallion equipment UK	Accepted	
		Radius Technologies, Multan-60000 (South Punjab)	SHK-O0310III orbital shaker of US	Rejected	Not according to tender specification

  
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	<p><b>Weight:</b> 7-10kg, <b>Program function:</b> 10 steps and 6 program, <b>Input power:</b> 30W, <b>Output power:</b> 15W, <b>Power supply and cord plug:</b> free voltage (1 phase, AC 90V ~260V, 50/60Hz) with cord/plug, <b>Flask holders:</b> 9ea-20ea.</p> <p><b>Others:</b> smooth start and change of stirring speed for stable running, storage function (program, RPM and timer) and locking model, Overcurrent protection function, smooth running to prevent liquid splashing.</p> <p><b>Includes:</b> all original cables</p>	<p>Leo Science, Islamabad</p>	<p>OS20-Pro Leosci/Joalan orbital shaker of China</p>	<p>Rejected</p>	<p>Not according to tender specification</p>
<p>4</p>	<p><b>Laptop</b> <b>Operating system:</b> Windows 11 Home, <b>Processor:</b> Intel® Core™ i7-1355U (up to 5.0 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 10 cores, 12 threads), <b>Performance Technology:</b> Intel® Evo™ laptop, <b>Graphics:</b> Integrated: Intel® Iris® Xe Graphics, <b>Display:</b> 15.6" diagonal, FHD (1920 x 1080), multitouch-enabled, IPS, edge-to-edge glass, micro-edge, 400 nits, low power, 100% sRGB, <b>Display brightness:</b> 400 nits, <b>Display color gamut:</b> 100% sRGB, <b>Memory:</b> 16 GB LPDDR5-5200 MHz RAM (onboard), <b>Storage:</b> 1 TB PCIe® NVMe™ M.2 SSD, <b>Wireless technology:</b> Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card (supporting gigabit data rate), <b>Power supply:</b> 65 W USB Type-C® power adapter, <b>Battery:</b> 4-cell, 55 Wh Li-ion polymer, <b>Battery life:</b> Up to 15 hours, <b>Video Playback Battery Life:</b> Up to 17 hours, <b>Battery Recharge Time:</b> Supports battery fast charge: approximately 50% in 30 minutes, <b>External I/O Ports:</b> 2 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4, HP Sleep and Charge); 1 USB Type-A 10Gbps signaling rate (HP Sleep and Charge); 1 USB Type-A 10Gbps signaling rate; 1 HDMI 2.1; 1 headphone/microphone combo, <b>Expansion slots:</b> 1 multi-format SD media card reader, <b>Energy efficiency:</b> EPEAT® Gold registered, <b>Webcam:</b> HP Wide Vision 5MP IR camera with temporal noise reduction and integrated dual array digital microphones, <b>Audio Features:</b> Audio by Bang &amp; Olufsen; Dual speakers; HP Audio Boost, <b>Sensors:</b> Accelerometer; eCompass; Gyroscope; IR thermal sensor, <b>Color:</b> Natural silver aluminum, <b>Pointing device:</b> HP Imagepad, <b>Keyboard:</b> Full-size, backlit, soft grey keyboard, <b>Dimensions (W X D X H):</b> 14.07 x 8.99 x 0.72 in, <b>Weight:</b> 3.9 lb, <b>Warranty:</b> 1-year limited</p>	<p>Not quoted by any company/vendor</p>			<p>Not quoted by any company/vendor</p>

  
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	hardware warranty. <b>Software included:</b> McAfee LiveSafe™ 30-day trial offer (Internet access required. First 30 days included. Subscription required for live updates afterwards.); 1-month Adobe free trial offer Duet® for HP (30 day free trial) 1 month trial for new Microsoft 365 customers, <b>Security management:</b> Mic mute key; Camera privacy shutter; Trusted Platform Module (Firmware TPM) support <b>Includes:</b> Leather waterproof fully cushioned bag, Bluetooth mouse, Bluetooth headphone, Original charger.				
5	<b>Printer</b> <b>Color print:</b> No, <b>maximum print speed(b/w):</b> Up to 20ppm mono, <b>Memory capacity (included):</b> 64MB, <b>Including toner (B &amp; W):</b> Yes, <b>Maximum document size:</b> A4; A5; A5(LEF); B5 (JIS); Oficio; Envelope (DL, C5); 76 x 127 to 216 x 356mm Letter; Legal; Executive; Oficio 216x340mm, Oficio 8.5x13 in, Envelope (No.10, Monarch); 4x6 in, <b>Paper storage (capacity):</b> Up to 100 sheets, <b>paper storage (max capacity):</b> Up to 150 sheets, <b>Automatic duplex:</b> Yes, <b>mobile and Wi-Fi support:</b> Yes <b>Warranty:</b> 1 year <b>Includes:</b> All original cables	Not quoted by any company/vendor			Not quoted by any company/vendor

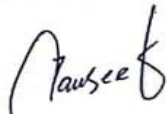


**Chairman,**  
Department of Parasitology  
Faculty of Veterinary and Animal Sciences  
The Islamia University of Bahawalpur

Signature of Departmental purchase committee



Member 1/Convener  
**Dr. Muhammad Rashid**  
Assistant Professor  
Department of Parasitology  
Faculty of Veterinary and Animal Sciences  
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Member 2  
**DR. TAUSEEF UR REHMAN**  
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