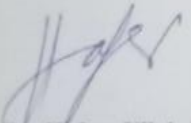
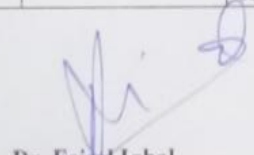
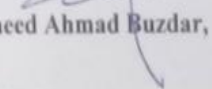


Technical assessment report for the lab equipments at the institute of Physics
Dated: 22-12-2020

Sr. No	Item No.	Items	Quantity	Supplier	Specifications	Remarks
1	1	Survey Meter	1	m/s Muhammad Zahid Enterpriser	Measurement and display in $\mu\text{Sv/h}$ or mrem/h , dose measurement indication and detect radioactive radiation (alpha, beta, gamma), Measurement range: $1 \mu\text{Sv/h}$ to 10 Sv and X-rays $\text{CuK}\alpha$ radiation.	i. The item at serial no 1-3 offered by m/s Muhammad Zahid Enterpriser is according to the requirements. ii. The specifications are acceptable and can be procured for Modern Physics Laboratory as soon as possible for fulfillment of student's experimentations.
	2	Radiation Protection Apron	2		Radiation-shielding apron, consists of fluid-resistant outer covering encasing thin sheet of lead (Pb) or lead-equivalent material.	
	3	Radiation Monitoring Badges	2		Large display makes, allow quick analysis of measurement, no special setting, reusable	


Dr. Hafeez Ullah Janjua,
 Associate Professor,
 Institute of Physics,,
 (Member)


Dr. Faizal Iqbal,
 Associate Professor,
 Institute of Physics,
 (Member)


Prof. Dr. Saeed Ahmad Buzdar,
 Director,
 Institute of Physics,
 (Chairman).



Subject: Evaluation of Quotations for Tender-B/2020 Lab equipment's for the Department of Plant Pathology (Opened 11-12-2020).

It is stated that a tender was floated by The Islamia University of Bahawalpur for the Procurement of laboratory equipment's for the Department of Plant Pathology UCA & ES (Tender B/2020). The SMPC of the University in its meeting held on 11/12/2020 opened the technical proposals. The technical committee of the Department in its meeting held 24-10/ 2020 evaluated the technical proposals. The recommendations of the committee are as under

Item Description	Supplier	Status	Remarks
Technical Specifications: Base unit, Internet based logger, battery 4.5AH, 1.4 Watt solar panel, GS, GPRS, UMTS based, logger, mounting brackets Sensors Layout <ul style="list-style-type: none"> 3 fixed analogue inputs: wind speed, leaf wetness and rain gauge 5 digital inputs: automatic sensor recognition, supporting sensor chains Built-in Memory : 8MB flash memory Internet Connectivity : GSM - GPRS, EDGE, UMTS Alert/Early warnings : SMS on user configurable/selectable threshold Dimensions without sensors : 41 cm L x 13 cm W x 7 cm H Weight without sensors : 2.2 kg Measuring interval : 5 minutes Logging interval : 15 - 120 min (user selectable) Internet contact (selectable) : Every hour to once in 24 hours (user selectable)	1. Farm Dynamics Pakistan (Pvt) Ltd.	Accepted	As per given requirements
	2. Premier Scientific Technologies	Rejected	<ul style="list-style-type: none"> No virtual Sensors No Disease models for different crops No frost monitoring Flash memory only 128Kb No EDGE, UMTS connectivity

Battery : 6V, 4.5AH, Operating range : -35°C to 80°C Solar panel Dimensions : 13.5 x 13.5 cm, 1.4 Watt solar panel Origin of the equipment : European			• Measuring interval is greater than 5 minutes
Complete with 1) Physical Sensors for: ○ Wind speed ○ Air Temperature ○ Relative humidity ○ Global Solar Irradiation ○ Rain fall ○ GPS 2) Virtual sensors: ○ Daily ETo ○ Vapor Pressure Deficit ○ Delta T			
Prices should be inclusive of the above mentioned based station, sensors and ○ Cloud Data Storage ○ Mobile App ○ Web App ○ Weather Forecast Service (for 1 st year) ○ Annual Work Planning Service • Optional Provision: ○ Disease model for over 80 diseases of over 30 different crops	Sensor	Technical Details	

Air Temperature Sensor	Temperature sensor: SMT 160-30 Temperature sensor resolution: 0.1°C Temperature sensor accuracy: $\pm 0.5^{\circ}\text{C}$			
Relative Humidity sensor	Relative humidity sensor: HC 103 Relative humidity sensor resolution: 1% Relative humidity accuracy 25% - 90%: 3%			
Rain Gauge	Rain gauge resolution: 0.2mm Rain gauge max rain reporting 12 mm/min Rain gage accuracy: $\pm 5\%$			
Global Radiation (Solar irradiation)	Global radiation sensor range: 0 ñ 2000 W/m ² Global radiation sensor resolution: 1 W/m ² Global radiation sensor response area: 320 nm 1,100 nm Global radiation sensor accuracy: $\pm 5\%$			
Wind Speed	Wind speed Range: 0 - 40 m/s Wind speed Gust Survival: 60 m/s Wind speed Anemometer Threshold: 1.4 m/s			
<ul style="list-style-type: none"> ○ Weather Forecast: Site specific Weather forecast for 7 days (measured on hourly basis) ○ Early-warnings/alerts: Automatic alerts, whenever the user set thresholds are over or under-passed (e.g. for Temperatures, Wind speed etc.), ○ Frost Monitoring: Frost alerts can be sent to different mobile phone numbers ○ Disease model(optional): Diseases can reduce plant quality and yield, and pesticides add significant input costs. Decision-making aids/tools may be provided by proven plant disease models for over 80 diseased of over 30 different crops ○ The station can handle up to 400 sensors through the intelligent sensor bus system. The system is extremely reliable due to a non-volatile 				

The Islamia University of Bahawalpur
University College of Agriculture & Environmental Sciences
Department of Plant Pathology

E-mail: plantpathology@iub.edu.pk, Ph: 062-9255531, Fax: 062-9250232

internal memory and can store more than 1 year of logged data (even without uploading the data on server)

Note:

- Rates quoted should be inclusive of all installation charges and applicable taxes.
- Active SIM card of any telecom service (with 100MB/month data) will be provided by the client.

Additional qualification for Supplier

Supply and service company should provide

- Letter of authorization from Principal
- Should have supplied similar equipment and services in Pakistan for at least 03 years.
- Should have in-house technical team for training and after sale services.
- Should provide quality certification along with the supplies

The selected firms are requested to attend the meeting of SMPC to held in future for opening of Financial Proposals.

Note: Quoted Item not according to the required specification

Departmental Technical Committee

1. Dr. Muhammad Naveed Aslam
2. Ms. Ambreen Maqsood
3. Dr. Waqas Ashraf

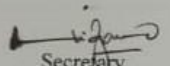
Convener

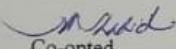
Member


Member

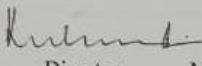
THE ISLAMIA UNIVERSITY OF BAHAWALPUR
FACULTY OF ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING
TECHNICAL EVALUATION OF THE FIRMS FOR TENDER-C (ENVIRONMENTAL ENGINEERING LABORATORY) IPB-996

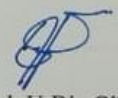
Tender (IPB-779)	Lab. Name (Items)	Muhammad Zahid Enterprises
Tender C	Environmental Engineering Laboratory. (Equipment: 1-7)	Qualified

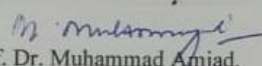

Secretary
Technical Committee


Co-opted
Member


Co-opted
Member



Director
P&D

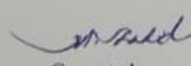

Mr. Faseeh-U-Din Gillani
XEN, IUB


Prof. Dr. Muhammad Amjad,
Chairman, Technical Committee

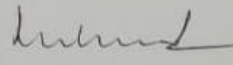
THE ISLAMIA UNIVERSITY OF BAHAWALPUR
FACULTY OF ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING
TECHNICAL EVALUATION OF THE FIRMS FOR TENDER-D (WORKSHOP PRACTICE LABORATORY) IPB-996


Tender (IPB-779)	Lab. Name (Items)	Muhammad Zahid Enterprises	Al-Janat Enterprises
Tender D	Workshop Practice Laboratory. (Equipment: 1-6)	Qualified	Qualified
	Workshop Practice Laboratory. (Workshop Tools: 1-33)	Qualified	Qualified

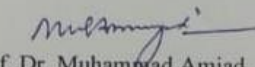

 Secretary
 Technical Committee


 Co-opted
 Member


 Co-opted
 Member


 Director
 P&D


 Mr. Faseeh-U-Din Gillani
 XEN, IUB


 Prof. Dr. Muhammad Amjad,
 Chairman, Technical Committee

No Firm Partispace in Tender-E

**Technical Comparative Statement for the purchase of Lab Equipment's for Entomology,
Meeting Held on 11.12.2020**

	Primer Scientific Technologies	Advance System	Pakistan Analytic Supply
1	Binocular Compound Microscope		
	<ul style="list-style-type: none"> • 3 watt LED with light intensity control • 360 degree rotation • 30 degree inclination • Interpupillary distance 48 to 75 m • Dioptic adjustment of left eye piece • Eye piece WF 10x/18 mm • Objective: 4x/0.10, 10x/0.25, 40x/0.65, 100x/1.25 • Double layer mechanical sliding stage. 125x115 mm, 70x30 mm X-Y movement range. Vernier scale on two axes, accuracy 0.1 mm. • Adjustable tension of coarse focusing knob • Abbe N.A. 1.25 condenser, adjustable • Made: Italy 	<ul style="list-style-type: none"> • 3 Watt LED light with intensity control • 360 degree rotation • 30 degree inclination • Interpupillary distance 48 to 75 m • Dioptic adjustment of left eye piece • Eye piece WF 10x/20 mm • Objective: 4x, 10x, 40x, 100x • Scratch resistant 152/197x 131 mm stage, integrated 75x36 mm X-Y rackless mechanical stage. Vernier scale included. • Adjustable tension of coarse focusing knob • Abbe N.A. 1.25 condenser, adjustable • Made: Netherland 	<ul style="list-style-type: none"> • LED light with intensity control • 360 degree rotation • 30 degree inclination • Interpupillary distance 50 to 75 m • Dioptic adjustment of left eye piece • Eye piece WF 10x/18 mm • Objective: 4x, 10x, 40x, 100x • Double plate mechanical stage 145x140 mm with Vernier scales. Travel area 76x50 mm • Adjustable tension of coarse focusing knob • Abbe N.A. 1.25 condenser, adjustable • Made: Country of origin China
Status	Technically accepted	Technically accepted	Technically accepted
2	Grain Moisture Meter		
	<ul style="list-style-type: none"> • High resolution load cell weighing system (136 L and 62 L) • Halogen infrared lamp • LCD with backlight with adjustable contrast • Time (1-99 min) and auto stop operating modes 	Nil	Nil

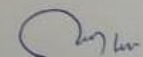
	<ul style="list-style-type: none"> • Temperature range: 35-160 C/1C • Drying resolution 0.001% - 0.01% - 0.1% • Capacity 160 g • Response time \leq 4 sec • Pan diameter 100 mm • Made: Italy 		
Status	Technically accepted		
3	Horizontal Drying Oven		
	<ul style="list-style-type: none"> • Capacity: 49 L • Shelves: 2 EA • Type: Natural Convection type • Range: Amb\pm 10°C to 250° C • Working Temp: 200 °C • Controller: Digital PID controller • Material: Stainless steel plater • Insulation: Glass wool • Power: AC 220 50/60 HZ • Heating capacity: 800 W • Made: Korea 	Nil	Nil
Status	Technically accepted		



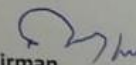
Dr. Muhammad Waqar Hassan
Assistant Professor,
Member/Convener



Dr. Muhammad Aslam Farooqi
Assistant Professor
Member



Dr. Bushra Saddiq
Lecturer
Member



Chairman
Department of Entomology

Technical assessment report for the Equipments at the Institute of Physics (IPB-996/G)

Sr. No.	Item No.	Items	Quantity	Supplier	Specifications	Remarks
1	1	Triple Grating Spectrometer/ Monochromator IHR320 core3 with 510-04-120,510-05-120, 510-21-120, MSL-13FN7,MSL-13FX7	1	m/s Divine Business Allied Corporation	Monochromator/Spectrometer with triple grating turret, wavelength range covered by gratings is from UV to 4500 nm, with one entrance and two exit slits	i. The whole unit; main item 1 along with its all accessories (i-viii) offered by 'Divine Business corporation' are according to requirements. ii. The specifications are acceptable and the committee recommends the procurement as soon as possible for fulfillment of experimentation.
	Accessories					
	(i)	808nm fiber coupled Laser with FIB-100NIR-SMA-2	1		Wavelength 808nm, Power 450 mW, including fiber cable	
	(ii)	White light Source with LPS-QTH	1		Halogen light source in LSH series housing with regulated power supply	
	(iii)	InSb Detector, DSS-ISO20L with 1427C, J30646, BNC-T adapter	1		InSb Detector having round window 3-4mm, Liquid Nitrogen cooled, including housing for the detector, including required power supply	
	(iv)	Lock in Amplifier CLI-SR810 with SpectraACQ3	1		DSP-Lock in Amplifier with Spectra ACQ3 for data acquisition, including all cables	
	(v)	Optical Frequency Chopper System	1		Free optical chopper system including its base to be mounted on optical table.	
	(vi)	Optical Table	1		Optical Table, 1 m x 2 m x 210 mm, with 700 mm Tall Active Isolator Legs.	
	(vii)	Software	1		Synergy JY software to control the whole unit.	
	(viii)	Miscellaneous			4 main leads and 2 USB cables	
2	1	Triple Grating Spectrometer/ Monochromator	1	m/s Proficient Engineers	Monochromator/Spectrometer with triple grating turret, wavelength range covered by gratings is from UV to 4500 nm, with one entrance and two exit slits	i. The whole unit; main item 1 along with its all accessories (i-viii) offered by 'Proficient Engineers' are according to requirements. ii. The specifications are acceptable and can be procured as soon as possible for fulfillment of experimentation.
	Accessories					
	(i)	808 nm fiber coupled Laser	1		Wavelength 808 nm, Power 450 mW, including fiber cable	
	(ii)	White light Source	1		Halogen light source with housing including regulated power supply	
	(iii)	InSb Detector,	1		InSb Detector having round window 3-4mm, Liquid	

Zahida

[Signature]

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					Nitrogen cooled, including housing for the detector, including required power supply DSP-Lock in Amplifier, including all cables Free optical chopper system including its base to be mounted on optical table. Optical Table, 1 m x 2 m x 210 mm, with 700 mm Tall Active Isolator Legs. BENWIN Plus software to control the whole unit. 4 main leads and 2 USB cables,	
	(iv)	Lock in Amplifier	1			
	(v)	Optical Frequency Chopper System	1			
	(vi)	Optical Table	1			
	(vii)	Software	1			
	(viii)	Miscellaneous				
3	1	Triple Grating Spectrometer/ Monochromator with all accessories	1	m/s Multy solution Traders	Monochromator/Spectrometer with triple grating turret, wavelength range covered by gratings is from UV to 4500 nm, with one entrance and one exit slits	i. The whole unit; offered by 'multy solution' is not according to the requirements, ii. Main item has not two exit slits, Optical chopper is not free to be mounted, iii. The specifications are not acceptable for the fulfillment of experimentation. Therefore, the committee does not recommend the purchase from this company.
4		Triple Grating Spectrometer/ Monochromator	1	m/s Rays Technologies	Not quoted	i. Rays technologies did not quoted the whole unit particularly the main item. ii. Rays technologies only quoted few items from accessories. iii. This is not acceptable for the fulfillment of the experimentation. Therefore, the committee does not recommend the purchase from this company.
	Accessories					
	(iv)	Lock in Amplifier	1		DSP-Lock in Amplifier, including all cables	

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5	1	Triple Grating Spectrometer/ Monochromator MonoRA323i	1	m/s Shah Scientific Solutions	Triple grating monochromator with one entrance and two exit slits	i. Shah Scientific solution offered the main item with all accessories However there are no proper specifications for 'white light source', ii. This is very vital part of whole unit and system can't properly work without it. This whole unit offered by Shah scientific is not acceptable for the fulfillment of the experimentation. Therefore, the committee does not recommend the purchase from this company.
		Accessories				
		(iii) White light Source	1		No specifications given	

Zahida
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 (Principal Investigator)
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Saeed
Prof. Dr. Saeed Ahmad Buzdar,
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 Institute of Physics,
 (Chairman).
DIRECTOR
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 The Islamia University of Bahawalpur