

TENDER NOTICE

INTERNATIONAL ISLAMIC UNIVERSITY ISLAMABAD (IIUI) invites sealed bids from the Original Manufacturer / Authorized Distributors (With Valid Authorization/Distribution Certificate)/ Suppliers registered with Income Tax and Sales Tax Departments and who are on **Active Taxpayers List (ATL)** of the Federal Board of Revenue for the Purchase of Lab Equipment/Items under its approved Mega PC-I titled: *"Expansion and Upgradation of International Islamic University Islamabad"* for the following Departments/Centers:

Sr. No.	Name of Department/Centre	Items' Description	Tender Submission Date & Time (On OR Before)	Tender Opening Date & Time	Tender Fee (Rs.)
1.	Procurement of Workstations/Systems for "Department of Mechanical Engineering (DME), FET (Male)"	Workstation/Computer's Specifications: Processor: minimum 1x10C physical and minimum 3.20Hz, Ram: minimum 32GB DDR4, OS: Window latest version, Video Card: minimum 8GB NVIDIA, Internal HDD Configuration: 1 st SSD: minimum 256GB+2TB Sata, 24" wide screen monitor	01-12-2022 10:30 A.M	01-12-2022 11:00 A.M	3,000/-
2.	Procurement of Lab Equipment for "Department of Mechanical Engineering (DME), FET (Male)"	Accelerometer, Force Transducer, Impedance Head, Impact Hammer, Modal Shaker, Modal Stinger, Data Acquisition System, Modal Analysis Software,			3,000/-
3.	Procurement of Lab Equipment for "Department of Electrical Engineering (DEE), FET (Female)"	Communication Trainers, Motorized Antenna Trainers (with all modules), ULT Trainers and Functional Generators			3,000/-
4.	Procurement of Lab Equipment for "Department of Electrical Engineering (DEE), FET (Male)"	Wireless Communication Trainers: Wireless/Mobile Phone Trainer & IoT Wireless Communication Kit			2,000/-
5.	Procurement of Lab Equipment for "Department of Civil Engineering (DCE), FET (Male)"	Shear Strength Machine & Reaction Frame (Shear Reaction Frame)			2,000/-

02. Bidding Documents, containing detailed Terms & Conditions etc. can be downloaded from PPRA & IIUI websites.

03. Sealed bids, prepared in accordance with the instructions in the bidding documents, must reach **on OR before** the above date & time at the following address:

Asstt. Director-II (P&S)
Room No. 213, 2nd Floor, Admin Block, New Campus, Sector H-10
International Islamic University Islamabad.
Tel: 051-9019255

04. Bids will be opened by the ***Bid Opening Committee*** as per above schedule/date & time in the **COUNCIL HALL**, Admin Block, Sector H-10, New Campus, International Islamic University Islamabad in the presence of bidders/their representative(s) who may like to attend the bid opening.

05. International Islamic University Islamabad reserves the right to accept or reject any or all bid(s) in terms of Rule-33 of Public Procurement Rules 2004.

Project Coordinator

Project Titled: *Expansion and Upgradation of IIUI*
International Islamic University Islamabad. Tel: 051-9019255

1. BoQs for the Supply of Lab Equipment for Department of Mechanical Engineering (DME), FET

S. No	Equipment Name	BoQs/Specifications	Make/ Model & Country of Origin	FOR Price (with taxes)	
				Unit Price	Total Price
1	Workstation/ Computer Systems (Qty=20)	Processor: minimum 1x 10C physical and minimum 3.20Hz			
		Memory: RAM minimum 32GB DDR4			
		Operating System: Windows latest version			
		Video Card: minimum 8GB NVIDIA OR Equivalent			
		Internal HDD Configuration: 1 st SSDD: Minimum 256GB + 2TB SATA			
		24" widescreen monitor			

Note: Required items must be of the same specs/brand/model or equivalent.

For any technical queries; please contact:

Engr. Dr. Adnan Aslam Noon, Chairman, DME

adnan.aslam@iiu.edu.pk (051-9019497/9019775)

2. BoQs for the Supply of Lab Equipment for Department of Mechanical Engineering (DME), FET

S. No	Equipment Name	BoQs/Specifications	Qty.	Make/ Model & Country of Origin	FOR Price (with taxes)	
					Unit Price	Total Price
1.a	Accelerometer	Piezoelectric Accelerometers, 100mv/GN or approved equivalent	14			
		Accessories: Mounting wax				
		Accelerometer calibrator	01 piece			
1.b	Force Transducer	Force Sensors: not less than 10mV/Lb for approved equivalent	03			
		Force Sensors: not less than 500mV/Lb for approved equivalent	03			
		Force Sensors: not less than 100mV/Lb for approved equivalent	03			
		Force Sensors: not less than 1mV/Lb for approved equivalent	03			
1.c	Impedance Head	Piezoelectric Accelerometers Force, not less than 100mV/g, 100 mv/Lbf or for approved equivalent	03			
1.d	Impact Hammer	Force Sensors With head extender not less than 50 Lbf range, 100 mV/LbF, head weight 02 grams or approved equivalent	01			
		Force Sensors BNC Connector, not less than 1,000 LbF range, 5mV/Lbf Head weight 100 grams or approved equivalent	01			
		Force Sensors BNC Connector not less than 500 LbF range, 10mV/LbF Head weight 100 grams or approved equivalent	01			
		Force Sensors BNC Connector, 100 LbF range, 50mV/LbF Head weight 100 grams or approve equivalent	01			
		Force Sensors: BNC Connector, 50 LbF range, 100mV/LbF Head weight 100 grams or approved equivalent	01			
		Force Sensors: Sledge hammer, 3 pound head, includes 4 impact tips not less than 5,000Lbf range, 1mV/Lbf or approve equivalent	01			
		Force Sensors: Sledge hammer, 1 pound head, includes 4 impact tips not less than 5,000 LbF range, 1mV/LbF or approve equivalent	01			
		Force Sensors: Sledge hammer, 12 pound head, includes 4 impact tips not less than 5,000 LbF range, 1mV/Lbf or approve equivalent	01			
1.e	Modal Shaker	Modal Shakers – not less than 200N Force with Cooling fan (with cables and fuse) or approved equivalent.	01			
1.f	Modal Stinger	Modal Shakers Accessories with Elastic Rods Kit include: 3 Push/Pull steel stinger with dimension not less than L 500 D3.5 or approved equivalent	01			
		One collect chuck not less than 3.5mm or approved equivalent				
		5 Push/Pull steel stinger with dimension not less than L 200 D3,5 or approved equivalent				
		3 Push/Pull steel stinger with dimension not less than L 500 D2,5 mm				
		One collect chuck not less than 2.5mm or approved equivalent				
1.g	Data Acquisition System	SCADAS Recorder 1-slot front-end, dual source, dual Tacho (one of which can be switched to digital/analog SYNC/IRIG-B mode to support Sound Camera), WiFi, GPS, single CAN-bus, embedded compact flash card reader, AC-DC adapter and internal battery. The unit can operate in fully autonomous mode without connecting to PC or PC-based operation via standard Ethernet (UTP) interface. The unit has a standard Ethernet (UTP) interface, battery time of at least 1 hour OR Equivalent	01			
		SCADAS Not less than eight-cannel module (with connectors) supporting V/ICP inputs with TEDS support OR Equivalent	01			
		SCADAS: Solid state memory data storage using high performance compact flash card or Equivalent	01			
1.h	Modal Analysis Software	SCADAS Software (Compatible) High performance Desktop system (Compatible with the above equipment) License Software (up to 50seats)	01			

Note: Required items must be of the same, equivalent or higher spec. Items from serial no 1.a to 1.h should be quoted/supplied as complete package and should be compatible with each other. "

For any technical queries; please contact:

Engr. Dr. Adnan Aslam Noon, Chairman, DME (adnan.aslam@iiu.edu.pk) (051-9019497/9019775)

3. BoQs for the Supply of Lab Equipment for Department of Electrical Engineering (DEE-Female), FET

S. No	Equipment Name	BoQs/Specifications	Qty	Make/ Model & Country of Origin	FOR Price (with taxes)	
					Unit Price	Total Price
COMM LAB						
1.	Communications Trainer:	1. Frequency shift keying modulation/ demodulation 2. Amplitude shift keying modulation/ demodulation 3. Phase shift keying modulation/ demodulation 4. Pulse Coded modulation/ demodulation 5. Frequency modulation/ demodulation 6. Phase lock loop demodulation 7. Amplitude modulation/ demodulation 8. Peak Detector 9. Sampling Theorem 10. Time Division Multiplexing 11. Delta Modulation 12. Amplitude Modulation - SSB 13. Pulse width modulation/ demodulation 14. Line coding and decoding techniques	08			
2.	Motorized Antenna Trainers (with all modules)	C-Band Transmitter Center Frequency: 5150MHz Output Power: 10 dBm RF Source: Dielectric Resonator Oscillator C-Band Receiver Center Frequency: 5150MHz Band with: 50MHz Sensitivity: -30dBi Motor rotation: 0 ^o to 180 ^o with 5 ^o steps Pyramidal Horn Antenna Yagi-Uda Antenna Micro strip Patch Antenna Micro strip Array Antenna Parabolic Reflector Antenna Helical Antenna Di-pole Antenna Double Di-pole Array Antenna Double stub Tuner	04			
BEE LAB						
3.	ULT Trainer	Trainer contains DC Power Supply 1 to +- 25V (Variable and Fixed both) AC Power Supply (2 Channel function Generator, 12 Vp-p variable voltage, wave type: Sine, Square, Triangle, saw tooth) Clock Generator Solderless Breadboard Module 16 bit Led indicator Two Digit seven segment Led display module Two data Switch modules, pulse switches	30			
FYP, BEE AND COMMUNICAITON LABS						
4	Function Generators	Waveforms-Sine, Square, Triangle, Ramp, Pulse, TTL, Dual Channel Amplitude Range (no load)—from 1mVpp to 20Vpp, Accuracy +- 5% Frequency, Range-from 0.2Hz to 20MHz. Accuracy+- 1%, Resolution-1mHz	49			

Note: Required items must be of the same specs as mentioned above or Equivalent.

For any technical queries; please contact:

Dr. Irum Nausheen, Incharge, DEE-Female, FET

irum.nausheen@iiu.edu.pk (051-9019352/9019515)

4. **BoQs for the Supply of Lab Equipment for Department of Electrical Engineering (DEE-Male), FET**

S. No	Equipment Name	BoQs/Specifications	Qty.	Make/ Model & Country of Origin	FOR Price (with taxes)	
					Unit Price	Total Price
COMMUNICATION LAB						
1.	Wireless Communication Trainers	Wireless/Mobile Phone Trainer for learning of all the blocks of Wireless/Mobile Communication Systems including audio frequency, radio frequency, control, communication Integration and implementation of AT commands for 4G or 3G mobile communication.	05			
		IoT Wireless Communication Kit to implement different wireless technologies e.g., Bluetooth, infrared, Zigbee and LoRa etc.	05			

Note: Required items must be of the same specs as mentioned above or Equivalent.

For any technical queries; please contact:

Dr. Shahid Ikram, Chairman, DEE

shahid.ikram@iiu.edu.pk (051-9019491/9019581)

5. BoQs for the Supply of Lab Equipment for Department of Civil Engineering (DCE), FET

S. No	Equipment Name	BoQs/Specifications	Qty	Make/ Model & Country of Origin	FOR Price (with taxes)	
					Unit Price	Total Price
1.	Shear Strength Machine	<p>Triaxial test apparatus is used for the determination of shear strength of soil sample.</p> <p>Capacity:50 KN</p> <p>Speed: 0.00001 to 51 mm/min</p> <p>Vertical Clearance: 900mm to 1000mm</p> <p>Horizontal Clearance: 300 to 400mm</p> <p>Platen travel: 100 to 150 mm</p> <p>Platen Diameter: 150 to 200 mm</p> <p>Complete Cell for various ranges of samples</p> <p>All required accessories for drained, undrained, consolidated testing</p>	01			
2.	Reaction Frame (Shear Reaction Frame)	<ul style="list-style-type: none"> ➤ Length = 4 m, Width = 4 m, Height = 4 m ➤ Vertical load capacity = 150 Ton ➤ Lateral Load = 100 Ton ➤ Hydraulic Jack Capacity 100Ton, Travel 200mm c/w Hand operated Pump, Digital Display of Load and hose suitable for shear frames testing. ➤ Hydraulic Jack Capacity 50Ton, Travel 200mm c/w Hand operated Pump, Digital Display of Load and hose suitable for shear frames testing. 	01			

Note: Required items must be of the same specs as mentioned above or Equivalent.

For any technical queries; please contact:

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