TENDER NOTICE

International Islamic University, Islamabad (IIUI) invites sealed bids from the Original Manufacturers or their Authorized Dealers / Distributors duly registered with Income Tax and Sales Tax Departments for the Purchase of Lab Equipment briefly elaborated below:

Sr. No.	Name of Department	Brief Description	Tender Submission Date & Time *(On OR Before)*	Tender Opening Date & Time	Tender Fee
1.	Procurement of Lab Equipment / IT equipment for Department of Mechanical Engineering.	i. Dell Precision Tower or Equivalent Systems ii. Network Router/Switch iii. Engine Test Bed (Complete) iv. Two Stroke & Four Stroke Diesel Engine v. Two Stroke & Four Stroke Petrol Engine vi. Bomb Calorimeter Computerized vii. Single / Multistage Compressor	21-09-2020 10:30 A. M	21-09-2020 11:00 A. M	Rs. 5000/- (Non Refundable)

02. Biding Documents, containing detailed specifications, item descriptions, terms & conditions etc. can be obtained from the Web Site of PPRA as well as IIUI.

03. Sealed bids, prepared in accordance with the instructions in the bidding documents, must reach **on** OR **before** the date & time mentioned above at the office of Assistant Director-II (Purchase & Store), Room No. 213, 2nd Floor, Admin Block, IIUI, Sector H-10, Islamabad. (Contact: 051-9019255) BY COURIER / BY REGISTERED MAIL. SoP's related to prevention of Covid-19 spread may be followed by those who intend to submit the bids in person.

04. The bids will be opened by the ***Bid Opening Committee*** in the **COUNCIL HALL**, Admin Block, Sector H-10, International Islamic University Islamabad. The bidders/their representative(s) who may like to witness the bid opening proceedings may do so either in person OR through video link (zoom web based video conferencing tool). Physical presence may be avoided as far as possible due to Covid-19 Pandemic.

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.

Assistant Director-II (P&S), International Islamic University, Islamabad.
Tel: 051-9019255

INTERNATIONAL ISLAMIC UNIVERSITY, ISLAMAAD

No.17/11/2020/P&S- Dated:_____.

M/S_____

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Subject: **Procurement of IT/Lab Equipment for Advance Computational and IC Engine Labs of Department of Mechanical Engineering (DME), FET**

Dear Sir,

We are pleased to invite your sealed tender(s) for the items mentioned at Annex I & II. The terms & conditions of the tender/supplies are given below:

A) **SUBMISSION OF TENDER**

1. You are required to send your tenders addressed to **Assistant Director, (P&S), International Islamic University Islamabad** latest by **21-09-2020 till 10:30A.M.** You may send your tenders through Courier or registered A/D mail addressed to **Assistant Director-II, (P&S), Room No. 213, 2nd Floor, Admin Block, New Campus, Sector H-10, International Islamic University Islamabad**, which must reach before the closing date and time mentioned above. Tenders **will be opened at 11:00 A. M.** on the same day in the presence of tenderers.
2. Tenders received after stipulated date & time shall not be considered. International Islamic University Islamabad will not be responsible for postal delays. The decision of Addl. Director (P&S) International Islamic University Islamabad in this respect shall be final and binding.
3. **Bidders are required to submit a Pay Order of Rs.5000/- (Rupees Five thousand only) as tender fees (non-refundable) along with Technical Proposal.**

B) **EARNEST MONEY**

The Tender should be accompanied by a Bank Draft / CDR (*valid for 04 months from the date of tender opening*) equivalent to 2% of total value in the name of **INTERNATIONAL ISLAMIC UNIVERSITY, ISLAMABAD** as Earnest Money with Financial Proposal. Earnest Money in any other shape shall not be accepted. Earnest Money against a running contract (s) purchase orders(s) shall not be transferable as earnest money for any other tender. **Tenders without Earnest Money shall not be considered.**

C) **RETENTION MONEY**

For successful bidder(s) 05% of total value of every Purchase/Supply Order will be Retained/Held till the completion of Warranty Period of the items and Earnest Money will also be retained by the IIU up-till the completion of the Supplies.

PREPARATION OF TENDERS "Single Stage Two Envelope Basis"

- The BID (Tender) submitted shall comprise of a single package containing two envelopes, each envelope shall be marked and will contain "**FINANCIAL**" and "**TECHNICAL**" proposal.
- On the given tender opening date only **"Technical Proposal"** will be opened in the presence of tenderers available. The Bank / Branch Name, CDR Number and Date (Except Amount) must be written on Technical Proposal envelope by the prospective bidder.
- The **"Financial Proposal"** shall be shown to the parties but will be retained with IIU without being opened. Financial Proposals of Technically Qualified bidders will be opened on October 09, 2020 at 1100 AM publicly.
- IIU will open the "Financial Proposals" publicly of the parties whose Technical Proposals have been found acceptable.
- Financial Proposals of the technically non-responsive bids shall be returned **un-opened** to the respective bidders.

E) PREPARATION OF TENDER – TECHNICAL PROPOSAL:

IIUI's requirements with Technical Specifications are given.

Bidders **MUST:**

- Be OEM or Authorized Partner/ Distributor/Dealer.
- Be registered with Sales Tax Authorities. (Please attach copy of Registration Certificate).
- Quote Rates, GST, and other taxes separately.
- Bid on Prescribed Performa issued by IIUI **will be accepted.**
- Affix the company seal on all tender documents.
- Mention clearly Tender Reference on **TOP RIGHT CORNER OF PROPERLY SEALED ENVELOPE, BEARING COMPANY'S STAMP.**

Please give all the available technical details of the items offered by you, supported with the technical literature, brochure, drawings and pictures, client list details, **warranty**, authorization certificates, etc.

Bids / Tenders / Technical Proposal received shall be evaluated in accordance with the given technical specifications.

F) PREPARATION OF TENDER – FINANCIAL PROPOSAL

The tenders should be enclosed in double cover. The inner cover should be sealed having enclosed the following documents:

- Annex-I & II duly filled in, signed and sealed.
- Original Pay Order for Earnest Money.
- The outer cover should bear address of the **Assistant Director-II, (P&S), Room No. 213, 2nd Floor, Admin Block, New Campus, Sector H-10, International Islamic University Islamabad** and reference number of the tender with opening date of tender.
- All information about the material proposed to be supplied must be given as required in the Annex-I &II to tender.

G) PRICES

a) The prices mentioned in the tender will be treated as firm till the completion of Purchase Order / Contract.

b) The Prices must be stated both in words and figures. Additional information, if any must be linked with entries on the Annex-I & II to Tender.

c) Offers must be valid for 04 months, further extendable with mutual consent.

d) Payment will be made on submission of bill, with delivery challan, GST Invoice and Warranty Card after satisfactory completion of the supply order, installation testing and commissioning.

(Jamshaid Khan)
Assistant Director-II (P&S)
051-9019255

Annex-I

BoQ for Purchase of IT/Lab Equipment for Advance Computational, DME Lab

Sr. #	Items Description	Qty.	Unit Price Incl. GST (Rs.)	Remarks
01.	**Dell Precision Tower or Equivalent Systems**	10		All the specifications are based on minimum requirements
	Specifications:			
	Processor: Intel® Xeon® Processor (1 x 28C physical , minimum 3.90GHz, Turbo, HT, 105W)			
	RAM: Minimum 128GB DDR4			
	Operating system: Window latest version			
	Video card: AMD FirePro™ 16GB			
	Internal HDD configuration: 1st HDD: 512 GB 2.5" Serial-ATA Solid State Drive 2nd HDD: 6TB 3.5" Serial-ATA (7,200 RPM) Hard Drive			
	Dell Ultra sharp 24 inch widescreen monitor			
	OpticalMouse			
	1 x additional Graphic Processing Unit (GPU) for processing (NVIDIA quadro K series not less then 12 GB or equivalent, should be compatible with ANSYS latest version).			
02.	**Router/Network Switch**:	1		
	10 G Uplink			

Anexx – II

S. No.	S. No.	Name of Item	IC Engine LAB Description	Qty	Remarks
1	Engine Test Bed	Test Bed	Engine Test Bed with simple Coupling and Interchangeability for Multi-Cylinder and Single Cylinder Engines for use in laboratory environment. Complete with Remote Control, Data Acquisition Facility and Eddy Current Dynamometer Including: 1. Basic Installation Material Kit 2. Oil and Coolant Flow Meters 3. Dynamometer Calibration Weights 4. Laminar Air Flow Meter Detailed Specification Engine Test Bed should provide practical demonstration of internal combustion engine technology for Multi and single cylinder engines. Self-contained manually operated engine test bed having an instrumentation and control system purposely designed to study engine performance, and energy balance measurements. Emergency stop switches, over heat & over speed trips are required for safety. It should be equipped with hours run indicator, Speed sensor, load sensor, key switch for engine ignition & starting. There should be protective guards around all moving parts and around key hot surfaces. In addition following requirement should be included: • Eddy Current Dynamometer, universal driveshaft with length compensation and safety guard. • Equipped with data acquisition and computer control of facilities allowing experimental analysis of engine performance parameters. • Dedicated petrol and diesel fuel system with unique quick release coupling to ensure correct fuel type is utilized and with fuel flow and fuel pressure measurement. • Engine test bed should be capable to run experiments / tests for 24h with no interruption. • Air flow measurement for the pulsating air flow inherent with internal combustion engine inlet tracts.	1	Items at serial No 1, 2 and 3 should be quoted as complete Lot/ package
		Transducer Kit for Engine	Compatible with Engine Test Bed and Engines at s.no 2 (Hardware & Software Compatible)	1	
		PV basic system- signal conditioning rack	• User friendly, easy to configure and use. • Pressure channel allowing data acquisition of in-cylinder combustion pressure, engine speed/crankshaft index position. • communication: Ethernet/USB • Compatible with Test Bed and engine at S. No 2	1	
		Exhaust gas calorimeter with engine poweroutput	• Can be utilized with wide range of engines, fully instrumented, capable of determination of heat content of exhaust, heat and energy balance studies. • Exhaust gas sampling point with shut off valve, Flow Control Valve, Temperature measuring points at inlet and outlet of exhaust gas and cooling water, Heat exchanger with pressure release valve. • Compatible with Test Bed and Engines at S. No 2	1	
		Enhaced gas analyzer for CO, CO2, HC, O2, Lambda and Nox	• Should be capable of measuring CO, CO2, HC, O2, Lambda and Nox. • Compatible with Test bed and engine at S.no 2.	1	

2	Two Stroke & Four Stroke Diesel Engine	Engine	Single Cylinder, Four Stroke Diesel Engine. The Engine should be compatible with Test Bed at S.No 1 (Hardware Software, accessories and instruments).	1
		Engine	Multi Cylinder Diesel Engine. The engine should be compatible with Test Bed at serial 1 (Hardware Software, accessories and instruments).	1
3	Two Stroke & Four Stroke PetrolEngine	Engine	Single Cylinder Four Stroke Petrol Engine with Direct Fuel Injection. The engine should be compatible with Engine Test Bed at S.No 1 (Hardware Software, accessories and instruments).	1
		Engine	Multi Cylinder Petrol Engine with Direct Fuel Injection. The Engine should be compatible with Test Bed at serial 1 (Hardware Software, accessories and instruments).	1
4	Bomb Calorimeter Computerised	Calorimeter set for calorific values of fuels	Calorimeter should include calorimeter vessel	1
			Double walled outer vessel,	
			Electric Stirrer gear	
			Ignition Control Unit	
			Two Vitreosil unit furnished with pressure gauges.	
			Replacement Calorimeter.	
			Digital Precision Thermometer.	
5	Single/ Multistage Compressor	Multi Stage Compressor	Lubricated Multistage Reciprocating Compressor	1
			Minimum discharge pressure 10 bar	
			Minimum tank capacity 150 liters.	
			Campatible air dryer and filters	
			Should meet international safety standards.	
			It works as a single, two-stage or two-stage compressor with intercooler.	
			Electronic drive units independently control motors	
			For safety, all pressurized lines should have relief valves.	
			Following parameters required to be measured by test set are volumetric, mechanical and isothermal efficiencies, pressure ratio, temperature ratio, inlet dryness calculations.	

Terms & Conditons

1. All the accessories/ engine/ equipments should be compatible with the Test Bed and Engines & Item at S.No 1 (a to e) and 2 (a to d) should be quoted as complete Lot/Package.

2. The manfactrurer/supplier must be well reputed with proven record.

3. Equipment from reputed OEM having track record of manufacturing and supplying of such equipment to HEI's with after sales service assurance"

4. The company must provide proper handling/lifting of equipment especially for heavy components.

5. The supplier should provide User Manual, Instructor Manual, Maintenance & Troubleshooting Manual, Spare parts Manual, P-I Diagram where required , Circuit Diagrams and Accessories/Tools required for routine

6. All appratus should have at least 2 years service warranty.

7. All the attachement/coupling for instrument and accessories should be provided.

8. Bill of lading should be from the country of manufacturer.

9. Supplier will deliver,install, test, commission the equiments and will train/certify the operators for atleast one week.

For any further query, please contact with Engr. Dr. Syed Athar Masood, Chairman, DME (FET) at his email: athar.masood@iiu.edu.pk

Attention:-

Non compliance to the conditions mentioned below at Serial No. 1 to 5 will render the quotation for rejection at the time of opening of tenders.

Board Terms and Conditions of Tenders:-

1. Rates must be quoted in words and figures both as per accounting unit inclusive of all taxes, (FOR Basis) and free delivery at Central Store of IIUI, at New Campus, Sector H-10, Islamabad.
2. Offer must be firm and final and valid for **04 months**.
3. Incomplete, mutilated offer or offers without/ deficient earnest money are liable for rejection.
4. Copy of certificate of registration with Sales Tax collectorate must accompany the quotation.
5. IIUI will be the sole judge to determine the quality and the workmanship of the above item and also have the right to visit the facility / premises of the tenderer or call for any further documents to establish the capability of firms to undertake this order / contract. IIUI's decision in this regards shall be final will not be questioned in any court.

We / I hereby confirmed having read and understood the terms and conditions of the tender and we / I expressly confirm and agree that our tender for the supply of above mentioned items are in accordance with the terms & conditions of Tender Documents.

TENDERER'S SIGNATURE_____ DESIGNATION_____

ADDRESS_____

Tel No._____ Fax No._____ Email_____

GST No._____ NTN No._____

SEAL:_____

Note: Required Equipment/item must be of the same specs as mentioned above or Equivalent.

For any further query, please contact with Engr. Dr. Syed Athar Masood, Chairman, DME (FET) at his email: athar.masood@iiu.edu.pk