



**Al-Khawarizmi Institute of Computer Science  
University of Engineering and Technology, Lahore**

**REQUEST FOR PROPOSALS**

**PROCUREMENT OF EQUIPMENT**

**(FOR Basis)**

**Estimated Price Rs. 2.235 Million**

**TENDER PRICE - Rs. 500/-**

**Last date of submission: November 1<sup>st</sup>, 2021 till 10:00 AM**

**FOR OFFICE USE ONLY**

**Serial No.** \_\_\_\_\_

**Sold to:- M/S** \_\_\_\_\_

**Date of Sale** \_\_\_\_\_ **Bank Challan No.** \_\_\_\_\_ **Date** \_\_\_\_\_



# Al-Khawarizmi Institute of Computer Science University of Engineering and Technology, Lahore

## TERMS AND CONDITIONS

### OVERVIEW

KICS, UET, Lahore intends to purchase equipment. The supplier will be responsible for delivery, installation (if required), wherever required in KICS, UET, LAHORE.

#### 1. Proposal instructions (for BOQs in FOR)

- 1.1 Single stage two envelope bidding procedure shall be applied in response to the RFP (Request for proposal). Each bid envelop shall comprise one envelope containing, separately, financial proposal and technical proposal (if any) plus “legible documents”. The financials of bids found technically non responsive shall be returned unopened to the respective bidders.
- 1.2 Responding organizations shall deliver two sealed copies “one original and one photo copy” of the “FINANCIAL & TECHNICAL PROPOSAL” till November 1<sup>st</sup>, 2021 up till 10:00 am, each copy being physically separate, bound, sealed and labeled. Proposals will not be accepted after the due time & date. Proposal shall be delivered at the address given below before time.

DIRECTOR KICS,  
UNIVERSITY OF ENGINEERING AND TECHNOLOGY (UET),  
LAHORE. PHONE: (042)-99250247

- 1.3 Proposals received after the submission deadline will not be entertained under any circumstances and will be returned unopened to the submitting vendor. It is the sole responsibility of the participating vendor to ensure that the proposals are delivered before the deadline.

Any queries regarding this proposal should be directed to the designated contact person listed below:

<b>For General Details:</b> <b>Aqeel Muhammad Babar</b> Manager Procurement & Admin <b>Contact Number # 042 99250247</b> <b>Email: aqeel.babar@kics.edu.pk</b>	<b>For Technical Details:</b> Dr Ali Raza (PI) <b>Email: <a href="mailto:aliraza@uet.edu.pk">aliraza@uet.edu.pk</a></b> <b>Contact # 03314030312</b>
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- 1.4 Price should be mentioned on FOR basis.



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- 1.5 The bidders are not allowed to bid in partial. The equipment must be brand new and complete in all respects with original packing of manufacturer and strictly conforming to the given specifications.
- 1.6 The original Request for Proposal documents duly signed and officially sealed by the bidder must be submitted in whole with the proposals. Any conditional, ambiguous, incomplete, supplementary or revised offer after the opening of Bidding shall not be entertained.
- 1.7 Any overwriting/crossing, etc. appearing in the offer may be properly signed by the person signing the Bidding. All pages of the Bidding must be properly signed. Offer with any overwriting and discrepancy shall not be accepted in any circumstances.
- 1.8 Warranty for all equipment's, as approved by the manufacturers/suppliers, should not be less than one year.
- 1.9 A call deposit equal to 2% of the estimated bid price (**mentioned in the tender**) should be accompanying the bidding document as **Earnest Money** drawn in favor of **Treasurer UET, Lahore**. The bidding document shall not be considered without Earnest Money. Bank guarantee will not be accepted. The earnest money will be released after signing the Agreement.
- 1.10 The Successful Bidder's bill will deposit a total of 10% of the contract amount as **Performance Guarantee / Security Deposit**. The **Performance Guarantee / Security Deposit** will be returned after successful completion of Defect Liability/ Warranty Period, after repairing the defects in the equipment/ replacement found during the warranty period for FOC.
- 1.11 The Successful Bidder will deposit a blank stamp paper of value of 0.25% of the total offer/contract amount, purchased in the name of Director KICS (UET), Lahore.
- 1.12 Central Procurement Cell reserves the right to accept or reject all proposals by assigning any reason thereof.
- 1.13 The quantity of an order may vary depending on the quoted prices and the allocated funds.



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- 1.14 The decision of the committee will be a binding on all concerned and can be appealed in the grievance committee.
- 1.15 KICS, UET, Lahore reserves the right to modify the conditions / specifications of the Bidding Document with written intimation to all the participants those who have purchased the Bidding Documents.
- 1.16 Delivery period will be (30) days from the date of issuance of purchase order/supply order.
- 1.17 Delivery, Installation and Training (where mentioned) be completed according to the agreed upon schedule of works.
- 1.18 In case the Bidders fails to execute the contract strictly in accordance with the terms and conditions laid down in the contract, the Security Deposit shall be forfeited and the equipment will be purchased at his own risk and expenses.
- 1.19 The equipment will be inspected at KICS, UET, LAHORE, and may get rejected if not found in accordance to the stated specifications.
- 1.20 KICS, UET, Lahore reserves the right to claim compensation for the losses caused by delay in the delivery of equipment i.e., 1% of contract amount on weekly basis maximum up to 10% of the contact amount.
- 1.21 It is the sole responsibility of the vendor to comply with local, national and international laws.
- 1.22 Successful bidders may be asked to bring their supplies for demonstration and specification test in the KICS, UET, LAHORE, at their own expenses and risk.
- 1.23 Where reference is made to any specific national or international standards, equal or higher quality will also be acceptable. In case, your offer conforms to standards other than quoted in the Bidding inquiry you are required to submit the followings along with your bid.
  - One copy of those standards in English



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- Evidence that the standards used is recognized and authoritative to ensure equal or higher quality.

In case the bidder does not submit the required evidence and a copy of each of the standards, its Bid may not be considered.

- 1.24 In case any supplies/material is found not in conformity with the specifications provided in the Bidding, either on account of inferior quality, defective workmanship, faulty design, faulty packing or is short supplied, or wrongly supplied, the supplier will replace the same free of charges or pay the full cost of replacement.
- 1.25 The all proposals submitted will become the property of the University.
- 1.26 Possessing/Providing Dealership Certificate.

## **2. Evaluation Criteria**

All bids shall be evaluated on technical and financial responsiveness.

Technical evaluation process may include, but not limited to the consideration of the following with respect to the functional requirements given ahead:

- 2.1. Technical specifications of proposed equipment's
- 2.2. Best warranty of the equipment

Financial Evaluation process may include, but not limited to the consideration of the following:

- 2.3 Quoted price
- 2.4 CDR (2% of estimated price mentioned in the tender)

## **3 Required Information**

Bidders are required to include the following documents/information in their technical proposals (all documents should be duly signed and stamped)

- i. The Name and Address
- ii. Profile of company (Including Financial Profile)



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- iii. List of Pervious/Current customer of related equipment's, with contact person and telephone/fax#
- iv. Detailed product information/brochures
- v. Detailed product warranty/guarantee information
- vi. Attested copy of National Tax Registration Certificate
- vii. Attested copy of Sales Tax Registration Certificate
- viii. Detailed backup support plan
- ix. Bank letter of financial standing
- x. An Affidavit on Rs.100/- Stamp paper that currently they are not black listed or debarred by any Government/Semi Government department to participate in bidding and to supply equipment. Failure to submit such affidavit may lead to disqualification.
- xi. Any additional information the bidder may like to furnish e.g. repair/maintenance workshop owned by supplier and other concerned facility
- xii. Dealership Certificate.

In addition to the above, the proposal must include the following in the order given below:

- i. Detailed equipment specifications, proposed quantities duly filled on the Performa attached with this document
- ii. Detailed project implementation schedule which includes the delivery of equipment
- iii. Terms and Conditions
- iv. Equipment prices (FOR) duly entered.
- v. Validity period of the quoted price, i.e. 60 days
- vi. Educational discounts if available/applied to the quoted price

#### **4 Terms and Conditions (FOR Basis)**

- 4.1 All prices should be in PAK rupees exclusive of Taxes. GST and /or other Tax amount where applicable should be mentioned in separate column(s) and the total given in a separate column.
- 4.2 All prices should be valid for at least 60 days. Withdrawal or any modification of the original offer within the validity period shall entitle KICS, UET. LAHORE to



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forfeit the earnest money in favor of the KICS, UET, LAHORE and/or putting a ban on the future inquires or taking any other suitable action against the bidder.

- 4.3 Delivery of the items will be free of charge at the KICS, UET, LAHORE during the office hours with a copy of delivery challan.
- 4.4 Items being ordered should be brand new and according to order specification from the current production and covered under normal warranty/guarantee etc. as mentioned in the proposal. Brochures of the product details must be attached.

Name of Vendor.....

Authorized person.....

Authorized Signature.....

Stamp.....

Office address.....

Tel No.....

Fax No.....

(The filled in Bidding Document should be forwarded to KICS, UET, Lahore with covering letter).



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**DETAILED TECHNICAL SPECIFICATIONS on FOR Basis  
Equivalent OR Higher**

<b>Sr. #</b>	<b>Equipment</b>	<b>Estimated Amount PKR Million</b>
<b>1</b>	<b>Power Supplies, Variable 0-48 Vdc, 20A</b>	<b>0.5 M</b>
<b>2</b>	<b>Material supplies</b>	<b>0.735 M</b>
<b>3</b>	<b>Miscellaneous supplies</b>	<b>1 M</b>
<b>Total Estimated Amount PKR</b>		<b>2.235 M</b>





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<b>Sr. No. 1 - Power Supplies, Variable 0-48 Vdc, 20A</b>			
Equipment with detailed general specifications	Detailed Specification with examples	Qty.	Est. Cost (Mn PKR)
<b>Power Supplies</b> Variable 0-48Vdc, 20A	Efficiency: >89%, Adjustable Range: 0-100% continuous adjustable, USB interface with PC software for remote control and external timed programming, Analog remote control function, Overvoltage, overtemperature, and overload protection For example: Switching DC Power Supplies Model 1902B	2	<b>0.5</b>
	High efficiency, more than 89%. Low Ripple & Noise: =< 30 mVp-p Protection system, cooling fan For example: CPS-6011 High Efficiency Adjustable DC Power Supply	3	



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<b>Sr. No. 2 - Material Supplies</b>				
<b>Equipment with detailed general specifications</b>		<b>Detailed Specification with examples</b>	<b>Weight (Kg)</b>	<b>Est. Cost (Mn PKR)</b>
1	Aluminum sheets, rods, and blocks	7075-T6 and 6061-T6	110	<b>0.735</b>
2	Steel sheets, rods, and blocks	ASTM A36 Steel	50	
3	Composite material sheets	carbon fiber (Sheet 900x500x3mm)	As detailed in Specs`	
4	Plastics, resins, and silicon	G-P resins (0.5L), Silicon gel (liner), pigment paste (tube-set), TP foam sheets, PoP powder (4kg), PoP bandages (1 dozen) (above-knee amputee socket manufacturing kit)	As detailed in Specs`	
5	Material supplies for Rapid Prototyping Machine	PLA Pro/PLA/TPU/Ninja-flex	10	
6	Nut, bolts, screws, fasteners	1) Allen-key Hex Socket Head Screws/bolts (strength grade 8.9-12.9) - M1.6 (6mm thread length)(Qty. 12) - M2 (6, 8, 10 mm thread length)(Qty. 24 each) - M2.5 (6,8,10 mm thread length) (Qty. 12 each) - M3 (6,8,10,12,16,20,25,30 mm thread length)(Qty. 200 each) - M3 (40,45,50,55,60,65 mm thread length)(Qty. 12 each) - <b>Same sets of M4, M5, M6, M8, M10, M12 as thread lengths and quantity defined for M3 (mentioned above)</b> - M3 (6,8,10,12,16,20,25) CSK-allen key type (Qty. 50 each) - M3, M4, M5, M6, M8, M10, M12	As detailed in Specs`	



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	<p>Nut with washers (Qty. 200 each) - M8, M10, M12 check-nuts/thin-nuts (Qty. 24 each)</p>	
	<p>2) Allen key socket <b>button head cap screws</b> (strength grade 8.9-12.9) - M3 (6,8,10,12 mm thread length) (Qty. 50 each) - M4 (6,8,10,12,16,20,25,30 mm thread length) (Qty. 50 each) - M5 (6,8,10,12,16,20,25,30 mm thread length) (Qty. 50 each) - M6 (6,8,10,12,16,20,25,30 mm thread length) (Qty. 50 each)</p>	
	<p>3) External axially inserted snap rings - shaft diameter 5,6,7,8,9,10,...,38,39,40 (Qty. 24 each)</p>	
	<p>4) External radially inserted snap rings - shaft diameter 5,6,7,8,9,10,...,38,39,40 (Qty. 24 each)</p>	
	<p>5) Threaded Inserts - M3,M4,M5,M6 (Qty. 50 each)</p>	
	<p>6) Set screws (underhead screws) - M3 (8,10,12,16,20,25 mm thread length) (Qty. 50 each) - <b>Same sets of M4, M5, M6, M8, M10 as thread lengths and quantity defined for M3 (mentioned above)</b></p>	
	<p>7) Self tapping screws - ST2.9 (10, 13, 16, 20, 25 mm thread length) (Qty. 50 each)- <b>Same sets of ST3.5, 3.9, 4.2, 4.8 as thread lengths and quantity defined for ST2.9 (mentioned above)</b></p>	
	<p>Storage box for all the screws, nuts, and bolts with partition for each type and length</p>	
7	Mechanic stethoscope	Qty. 1



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Tools for machining and fabrication	Power tool for fastening - min Torque ~50Nm or better	Qty. 1
	Analog Boring Gauge (50-160mm) Insize (2322-160A)	Qty. 1
	Analog Dial Indicator (2308-10A)0.01Gr	Qty. 1
	Magnetic stand (6202-80 or 6210-80) (6208-80 universal)	Qty. 1
	Analog Torque Wrench with out sockets (20- 100Nm) Insize (IST-9WM100)	Qty. 1



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Sr. No. 3 - Miscellaneous Supplies				
	Equipment with detailed general specifications	Detailed Specification with examples	Qty.	Est. Cost (Mn PKR)
1	Linear strain gages with aluminum compensation, 2mm, pack of 10 (2)	Strain Gauge Application Kit e.g. omega's SG1-kit, <b>KIT CONTENTS:</b> STRAIN GAGES (10x2 = 20 in total), with Ribbon Leads, Solder Pads, Lead Wire, and Terminal Pads; COATINGS: Aluminum Foil with Putty; ADHESIVES: e.g. SG401, SG496; With application notes; <b>TOOLS:</b> Flat Brush, Fold-Out Magnifier, 6x Magn., 12 in Ruler, 10 ft Flexible Ruler, Glass Fiber Eraser, Scissors, Dented, Scissors, Pointed Dental Probe with Bent Point, Dental Spatula for Cement Stripper for Removing Insulation, Knife with Six Blades, 10 ft Roll Multicolored Ribbon Cable, Roll Mylar Tape, Sheet of 180, 240, 400 Grade of Emery Cloth, Straight Tweezers, Curved Tweezers, with Rugged Carrying Case	1	1
2	Analog strain gage load cell amplifier, dc powered (4)	FSR based load cell including sensing matrix, amplification and interface circuitry e.g. MP2508 Plus which is 10x16 FSR Matrix Sensor Evaluation Kit with MS9723 and MS9724, with Controller (Tinn) and 2m USB Cable or similar	1	



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		Resistance Sensor, Output: Analog SENSOR, Material: plastic or aluminum alloy amplifier, Name: 4-20mA load cell amplifier, Voltage: 10VDC, Output signal: 0-5V, 0-10V, 4-20mA (Optional), Precision: more than 0.1%F.S, load cell connection: 1-4 sensors	3	
3	Stainless steel stud types miniature tension and compression load cell (1)	Sensitivity: $2.0 \pm 0.05$ , Operating temperature: $-20^{\circ}\text{C} \sim +80^{\circ}\text{C}$ , Input resistance: $350 \pm 20\Omega$ , Output Resistance: $350 \pm 5\Omega$ , Insulation resistance: $\geq 5000\text{M}\Omega(50\text{VDC})$ , Excitation voltage: 10V-12V, Safe Overload: $\leq 150\%$ FS, with amplifier DYBSQ-002 0-5V 0-20mA	1	
4	24V lithium iron rechargeable battery (high amp hr.)	36000 mA, output: 48V, minimum 4 hours battery time, C-rating: 1C, charger AC 220V, overcharge protection in battery, 1.8 KWH or higher	4	
5	Precision potentiometer with a 3.17 mm Dia. Shaft, 10 k-ohm, $\pm 20\%$ , 1W, $\pm 600\text{ppm}/^{\circ}\text{C}$ , servo mount (1)	Goniometer, Joint: Elbow or ankle, Output: Flexion/extension or dorsiflexion/plantarflexion and inversion/eversion, No. of Channel: 2, Transducer Type: strain gauge, Life: 600,000 cycles, Accuracy: $\pm 2^{\circ}$ measured over a range of $\pm 90^{\circ}$ , Repeatability: $1^{\circ}$ measured over a range of $90^{\circ}$ , Operating Temperature Range: $+10^{\circ}\text{C}$ to $+40^{\circ}\text{C}$ , Temperature Zero Drift: 0.15 degrees angle / $^{\circ}\text{C}$ For example: Goniometer SG110	1	
6	Portable DAQ card with accelerometer (1)	Portable DAQ Card with accelerometer: 10 analog inputs, 6 analog outputs, 40 digital I/O lines, Wireless, LEDs, push button, accelerometer onboard, Xilinx FPGA and dual-core ARM Cortex-A9 Zynq processor or equivalent, Programmable with LabVIEW / C; adaptable for different programming	1	



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		levels, with adapter and programming cable in standard package; e.g. NI MyRIO or similar	
7	Toolkit (for machinists and fitters)	1600X Portable 8 LED Light Adjustable Dimmer Practical Hand Held Microscope Computers Real-Time Video Inspection Digital Microscope	1
		Industrial grade 4in 2 jaw Bearing puller	1
		Gauge Block Set for calibration HKFLY (5 pieces set)	1