

**Khwaja Fareed University of Engineering &  
Information Technology, Rahim Yar Khan**



# **Tender Document**

**Tender No. Lab-091**

**Supply & Installation of Network Research & Advanced  
Lab. Equipment for CS&IT Department**

**at**

**Khwaja Fareed University of Engineering  
& Information Technology  
Rahim Yar Khan**

**TENDER DOCUMENT**

**TENDER No. Lab-091**

Supply & Installation of Network Research & Advanced Lab. Equipment for CS&IT  
Department

at

Khwaja Fareed University of Engineering and Information Technology

TENDER PRICE Rs. 1000/-

Last date of submission: \_\_\_\_\_

FOR OFFICE USE ONLY

Serial No \_\_\_\_\_

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

Date of Sale \_\_\_\_\_

Bank Challan No. \_\_\_\_\_

Date \_\_\_\_\_

## **1. Overview**

Khwaja Fareed University of Engineering & Information Technology, Rahim Yar Khan intends to purchase “**Supply & Installation of Network Research & Advanced Lab. Equipment for CS&IT Department**” as provided at **Annex ‘A’**. The supplier will be responsible for Supply, delivery, installation and commissioning of all specified items, wherever required, at the Khwaja Fareed University of Engineering & Information Technology, Rahim Yar Khan. This document provides complete instructions for bidders intending to participate in this Tender.

## **2. Instructions for Bidders**

**2.1.** Response to the Tender (Bid) should be submitted in one part which shall include two separately sealed envelopes of Technical **Proposal and Financial Proposal** before **12:30 PM** on **27-12-2017**. Technical Proposals will be opened on same day at **01:00 PM** in the presence of representatives of responding bidders, if any, and Financial Proposals will be opened after completion of technical evaluation. The exact time and place for opening of financial proposals will be informed to technically qualified bidders.

**2.2.** Responding bidder shall deliver two sealed copies of the bid. Each copy being physically separate, bound, sealed and labeled. Proposals shall be delivered at the address given below.

**Director Procurement**

**Khwaja Fareed University of Engineering & Information Technology  
Abu Dhabi Road, Rahim Yar Khan.**

**Tel. # 068-5882420**

**2.3.** Any queries regarding this proposal should be directed to the designated Technical Contact Person listed below.

**Dr. Saleem Ullah, HOD CS & IT,**

**Tel. # 068-5882415**

**2.4.** All bids must be submitted by filling the **Annex ‘B’**. Same should be enclosed in the financial proposal. Bidder must use the same numbers and labels used in this

Request for Proposal.

**2.5.** The original Tender Document 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 tender shall not be entertained.

### **3. Technical Proposal Format**

Bidders are required to include the following documents/information in their technical proposals in the order given below:

- i. The Name and Address
- ii. Profile of company (Including Financial Profile)
- iii. List of Previous/Current customers of related supplies, with contact person and telephone/fax numbers.
- iv. Detailed product design information
- v. Copy of National Tax Registration Certificate
- vi. Copy of Sales Tax Registration Certificate
- vii. Bank letter of financial standing
- viii. 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.
- ix. Any additional information the bidder may like to furnish e.g. repair/maintenance other concerned facility
- x. Detailed item specifications matched corresponding to the BOQ as given at **Annex 'A'**
- xi. Detailed project implementation schedule/Completion Schedule which includes the delivery of items mentioned in the BOQ
- xii. Signed and stamped Tender document
- xiii. Bank Draft of the Earnest Money

### **4. Financial Proposal Format**

Financial Proposal must include the following in the order given below:

- i. Equipment prices duly entered on the form in the attached BOQ
- ii. Validity period of the quoted price
- iii. Any other Terms and Conditions

## 5. Terms & Conditions

- 5.1. This invitation for bids is open to all national original Manufacturers/ Distributors/Agents in Pakistan for Supply.
- 5.2. All prices should be quoted in Pak Rupees and inclusive of all Government Taxes & Levies.
- 5.3. A bank draft equal to 2% of the estimated cost should accompany the Tender as **Earnest Money** drawn in favor of **KFUEIT Rahim Yar Khan**. The Tender shall not be considered without Earnest Money. Bank guarantee will not be accepted. Bank draft for Earnest Money should be placed with the Technical proposal.
- 5.4. Earnest Money for bidders not selected will be returned a minimum of two weeks after announcement of award and returned to successful bidder after signing the contract. If the selected bidder fails to sign the contract within stipulated time, Earnest Money will be forfeited.
- 5.5. A Bank draft of 5% of the total amount as **Performance Guarantee** will be provided by the supplier in favor of KFUEIT, Rahim Yar Khan within 10 days after signing of the contract on judicial stamp paper of the value PKR. 1200/-which shall remain valid for 12 months beyond delivery period. This performance guarantee will be released after the completion of warranty/guarantee period, along with the satisfactory completion report which will be intimated to the Seller and the Director Procurement KFUEIT, Rahim Yar Khan for their onward issuance of No Objection Certificate (NOC) for the release of performance guarantee.
- 5.6. KFUEIT Rahim Yar Khan reserves the right to accept / reject any or all proposals without assigning any reason thereof.
- 5.7. The quantity of an order may vary depending on the quoted prices and the allocated funds.
- 5.8. The decision of the KFUEIT procurement committee will be binding on all concerned and will in no case be challenged in any forum.
- 5.9. KFUEIT Rahim Yar Khan reserves the right to modify the conditions / specifications of the Tender Document with written intimation to all the participants who have purchased the Tender Document.
- 5.10. Delivery period will be 45 days from the date of issuance of purchase order/supply order.

- 5.11.** Delivery shall be completed according to the agreed upon schedule.
- 5.12.** In case the selected bidder fails to execute the contract strictly in accordance with the terms and conditions laid down in the contract, the Performance Guarantee shall be forfeited.
- 5.13.** The University will get the item inspected at KFUEIT Rahim Yar Khan and reject the item, if not found according to the stated specifications.
- 5.14.** The University reserves the right to claim compensation for the losses caused by delay in the delivery of equipment.
- 5.15.** It is the sole responsibility of the bidder to comply with local, national and international laws.
- 5.16.** In case any supplies/material are found not in conformity with the specifications provided in the tender, 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.
- 5.17.** All the proposals submitted will become the property of the University.
- 5.18.** All prices should be valid for at least 60 days. Withdrawal or any modification of the original offer within the validity period shall entitle the KFUEIT Rahim Yar Khan to forfeit the Earnest Money in favor of the KFUEIT Rahim Yar Khan and/or putting a ban on the future inquires or taking any other suitable action against the bidder.
- 5.19.** Delivery of the items will be free of charge at Khawaja Fareed University of Engineering & Information Technology, Rahim Yar Khan during the office hours with a copy of Delivery Challan.
- 5.20.** 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 quote. Brochures mentioned and product details must be attached.

## **6. Tender Evaluation Criteria**

All bids shall be evaluated on technical and financial merit. The Company Evaluation Criteria is attached at **Annex 'C'** for reference. Technical evaluation process may include, but not limited to the consideration of the following with respect to the functional requirements given ahead:

- a. Technical specifications of proposed item

b. Company Profile

- I. Age of the company
- II. Financial strength of the bidder

Financial Evaluation process will be based on the consideration of the quoted price.

**7. Undertaking**

On behalf of the company it is certified that we agree to the all the Instructions and Terms & Conditions given in this Tender Document

Name of bidder.....

Authorized person.....

Authorized signature.....

Stamp.....

Office Address.....

Tel No .....

Fax No .....

## Supply & Installation of Network Research & Advanced Lab. Equipment for CS&IT Department

Sr. No	Item Name	Specifications/Minimum Requirements	Qty.
1	Video Camera Drone	i. <b>Flight Time:</b> up to 60 minutes ii. <b>Camera:</b> FPV 4K (or 2.7K) 15MP Camera iii. <b>Battery Type:</b> 15.2V 4480mAh Lipo 4S iv. <b>Transmitter:</b> DEVO Transmitter or tablet device v. <b>Range:</b> 3 to 5 Km vi. <b>Features:</b> Track Modes, GPS-Assisted Hover, Vision Positioning System, Automatic Landing, Automatic Flight logs, Follow Me, Altitude Set Height, Return to Home, Auto-pilot and First-Person View, Out of Control return. <b>Accessories:</b> DJI-P3-Battery Intelligent Battery for Phantom 3 Drones (White), SanDisk Ultra 64GB Ultra Micro SDXC UHS-I/Class 10 Card with Adapter, Remote Controller with LCD Screen.4x Propeller Pair, Intelligent Flight Battery, Battery Charger, Power Cable, Safety Guidelines, Quick Start Guide, Gimbal Clamp, 4x Vibration Absorber, 16GB Micro-SD Card, Micro-USB Cable, 2x Anti-Drop Kit, 4x Landing Pad, DJI USA Warranty.	01
2	Wireless Sensor Node	IRIS/MICA modules to enable the low-power wireless sensor networks measurement system. Available in 868/916 MHz, 2.4 GHz.	12
3	Wireless Sensor Base Station	IRIS/MICA module functioning as a base station when connected to the USB PC interface.	03
4	Wireless Sensor Processor/Radio Board	Gateway provides a USB Interface for data communications.	03
5	Wireless Sensor Data Acquisition Board	high performance data acquisition board with up to 11 channels of 12-bit ADC analog input and onboard temperature and humidity sensors.	03
6	Wireless Sensor Programming Board	Include TinyOS SDK	03
7	Wireless Sensor Monitoring Software	Monitoring Software for historical and real-time charting. Provides topology map, data export capability, Mote programming and a command interface to sensor networks	01
8	3G/GPRS/GSM Shield for Arduino with GPS European version SIM5320E	- 16 acquisition channels - GPS L1 C/A code - Sensitivity Tracking: -157dBm / Cold starts: -144dBm -Time-To-First-Fix	03



		<p>Cold starts: 100s(typ) / Hot starts: 1s(typ)</p> <p>- Accuracy: approx 2.5 meters</p>	
9	<p>SIM808 Module or Equivalent GSM GPRS GPS Development Board IPX SMA with GPS Antenna for ARDUINO Raspberry Pi Support 2G 3G 4G SIM Card</p>	<p>Customizable</p> <p>Power supply: 5-26V</p> <p>When the power supply is less than 9V, needs 2A DC</p> <p>Another channel power supply port is 3.5-4.2V, suitable for lithium battery</p> <p>Computer debugging USB - TTL</p> <p>1 channel TTL serial port, can switch GPS and GSM function</p> <p>Can realize GPS positioning, messaging, data and other functions, the average standby at 80MA</p> <p>Power consumption is about 10MA</p> <p>With voice and microphone interface</p> <p>Quad Band, globally available</p> <p>1 channel GPS antenna interface, SMA interface for connecting an active antenna (default), you can also access the passive antenna</p> <p>1 channel GSM antenna interface, SMA interface</p> <p>1 channel Bluetooth antenna interface, SMA interface</p> <p>1 channel voice interface, 1 channel mic interface</p> <p>1 channel efficient LDO power supply, input voltage is 5-26V. Note that when the input voltage is less than 9V, please ensure that the power supply can provide current 2A. Another channel power supply input port 3.5-4.2V (suitable for lithium battery)</p> <p>1 channel TTL level interface, perfectly compatible with 5V, 3.3V, 2.85V level system</p> <p>1 channel USB interface, allows easy updates to SIM808</p> <p>Important chip pin all leads out</p>	03
10	<p>Arduino Starter Kit</p>	<p>1 Projects Book (170 pages), 1 Arduino / Genuino Uno, 1 USB cable, 1 Breadboard 400 points, 70 Solid core jumper wires, 1 Easy-to-assemble wooden base, 1 9v battery snap, 1 Stranded jumper wires (black), 1 Stranded jumper wires (red), 6 Phototransistor, 3 Potentiometer 10kOhms, 10 Pushbuttons, 1 Temperature sensor [TMP36], 1 Tilt sensor, 1 alphanumeric LCD (16x2 characters), 1 LED (bright white), 1 LED (RGB), 8 LEDs (red), 8 LEDs (green), 8 LEDs (yellow), 3 LEDs (blue), 1 Small DC motor 6/9V, 1</p>	01

		Small servo motor, 1 Piezo capsule [PKM17EPP-4001-B0], 1 H-bridge motor driver [L293D], 1 Opto couplers [4N35], 2 Mosfet transistors [IRF520], 5 Capacitors 100uF, 5 Diodes [1N4007], 3 Transparent gels (red, green, blue), 1 Male pins strip (40x1), 20 Resistors 220 Ohms, 5 Resistors 560 Ohms, 5 Resistors 1 k Ohms, 5 Resistors 4.7 k Ohms, 20 Resistors 10 k Ohms, 5 Resistors 1 M Ohms, 5 Resistors 10 M Ohms	
11	Outdoor Long Range Wireless Monitoring/Sensing System	<p>Eko pro series or equivalent</p> <p>2.405 to 2.480 GHz Channels</p> <p>16 channels available</p> <p>Type DSSS, IEEE 802.15.4</p> <ul style="list-style-type: none"> <li>• Solar Powered Node Promoting Green Technology</li> <li>• Web-based Data Viewing from Anywhere, Anytime</li> <li>• Customizable Alarm Settings and Alerts</li> <li>• Effortless Setup and Scalability; No Monthly Fees</li> <li>• Reliable Wireless Mesh Communication</li> </ul> <p>Environmental Sensor Bus (ESB) for plug-and-play sensor capability</p> <ul style="list-style-type: none"> <li>• Vast Portfolio of Integrated Sensor Devices</li> </ul>	01 Set

**Supply & Installation of Network Research & Advanced Lab.  
Equipment for CS&IT Department**

**(Bid Form)**

<b>Sr. No.</b>	<b>Item Name</b>	<b>Qty.</b>	<b>Unit Rate</b>	<b>Total Price</b> (inclusive of all taxes, and Shipment charges)
01	Video Camera Drone	01		
02	Wireless Sensor Node	12		
03	Wireless Sensor Base Station	03		
04	Wireless Sensor Processor/Radio Board	03		
05	Wireless Sensor Data Acquisition Board	03		
06	Wireless Sensor Programming Board	03		
07	Wireless Sensor Monitoring Software	01		
08	3G/GPRS/GSM Shield for Arduinio with GPS European version SIM5320E	03		
09	SIM808 Module or Equivalent GSM GPRS GPS Development Board IPX SMA with GPS Antenna for ARDUINO Raspberry Pi Support 2G 3G 4G SIM Card	03		
10	Arduino Starter Kit	01		
11	Outdoor Long Range Wireless Monitoring/Sensing System	01 Set		
				TOTAL: _____
Total in Words: _____				

## Company Evaluation Criteria

### 1. Basic Evaluation

- i. Profile of company
- ii. Detail of Previous/Current customers of related Supplies, Purchase Orders, with contact person and telephone/cell numbers.
- iii. Detailed product information
- iv. Copy of National Tax Registration Certificate
- v. Copy of Sales Tax Registration Certificate
- vi. Bank letter/Certificate of Account Information/financial standing
- vii. 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.
- viii. Detailed item specifications matched corresponding to the BOQ as given at **Annex 'A'**
- ix. Detailed project implementation schedule/Completion Schedule which includes the delivery of items mentioned in the BOQ
- x. Signed and stamped Tender document

## 2. Detailed Evaluation

(Minimum Passing Score Required is 65 Points)

<b>TECHNICAL EVALUATION CRITERIA FOR TENDER</b>			
<b>Specifications are available at Annex-A</b>			
<b>Sr. No</b>	<b>Item Name and Description</b>	<b>Marks</b>	<b>Max Marks</b>
<b>1</b>	<b>Past Performance/Experience of the Bidder (Reg. with GST/NTN)</b>	--	10
1.1	1 – 3 year experience	2	--
1.2	4 – 8 year experience	4	--
1.3	9 – 15 years' experience	6	--
1.4	Above 15	10	--
<b>2</b>	<b>Relevant Experience</b>	--	10
2.1	1 – 5 years' experience	3	--
2.2	6 – 10 years' experience	6	--
2.3	11 and above year experience	10	--
<b>3</b>	<b>Financial Position/ Status</b>	--	10
3.1	Last sales tax paid Form	4	--
3.2	Bank Certificate (satisfactory)	2	--
3.3	Statement Worth (Min 2 m)	4	--
<b>4</b>	<b>After Sale Services Available</b>	--	10
<b>5</b>	<b>Technical Evaluation of quoted items</b>	--	60
5.1	Specification matched as provided in Annex-A	30	
5.2	Literature in printed shape attached	2.5	
5.3	Reliability	2.5	
5.4	Delivery schedule as per need	5	
5.5	List of clients / where this equipment delivered	5	
5.6	Satisfactory letter from clients in favour of such equipment	5	
5.7	Guarantee / Warranty (as the case may be)	5	
5.8	Provision of Training to concerned user	2.5	
5.9	Free Installation (if required) as per requirement	2.5	
<b>Total</b>		--	100