

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



Tender Document

Tender No. IT-26
Framework Contract for Networking Items of New Academic buildings
at
**Khwaja Fareed University of Engineering
& Information Technology**
Rahim Yar Khan

TENDER DOCUMENT

TENDER No. IT-26

Framework Contract for Networking Items of New Academic buildings

at

Khwaja Fareed University of Engineering and Information Technology

TENDER PRICE Rs. 1000/-

Last date of submission: 04/09/2019

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 “**Framework Contract for Networking Items of New Academic buildings at KFUEIT, RYK**” as provided at **Annex ‘A’**. The supplier will be responsible for Supply, delivery 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 **2:30 PM** on **04-09-2019**. Technical Proposals will be opened on same day at **3:00 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.

Dr. Aamir Alaudin, Director Procurement

Procurement Department

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

Tel. # 068-5882460

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

Mr. Bilal Ahmed Tel. 068582499, Email: bilal@kfueit.edu.pk

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. Profile of company complete in all respect
- ii. List of Previous/Current customers, Purchase Orders of related Services with contact person and telephone/fax numbers.
- iii. Copy of National Tax Registration Certificate or Copy of Online Taxpayer Verification
- iv. Copy of Sales Tax Registration Certificate or Copy of Online Active Taxpayer
- v. Bank letter of financial standing /Bank Statement
- vi. An affidavit on Rs 100/- Stamp Paper issued after date of publishing of tender which illustrate that currently they are not black listed or de-barred by any Government/Semi-Government Department to participate in bidding. Failure to submit such affidavit may lead to disqualification.
- vii. Detailed item specifications or Services matched corresponding to the BOQ as given at **Annex 'A'**
- viii. Proposed delivery, response time, plan for rendering service
- ix. Signed and Stamped Complete Tender document
- x. 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

5. Terms & Conditions

5.1. This invitation for bids is open to all national original Manufacturers/ Distributors/Suppliers 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 05% of the total amount as **Performance Guarantee** will be provided by the supplier in favor of KFUEIT, Rahim Yar Khan within 12 days after decision of award of contract along with judicial stamp paper of the value @0.25 % of total cost for signing of contract agreement. Performance Guarantee shall remain valid for 12 months beyond delivery period and will be released after the completion of warranty/guarantee period, along with the satisfactory completion report by the inspection committee 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. The quantity of an order may vary depending on the quoted prices and the allocated funds.
- 5.7. The decision of the KFUEIT procurement committee will be binding on all concerned and will in no case be challenged in any forum.
- 5.8. 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.
- 5.9. Delivery period will be as per terms and conditions of purchase order/supply order.
- 5.10. Delivery shall be completed according to the agreed upon schedule.
- 5.11. 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.
- 5.12. The University will inspect the items at KFUEIT Rahim Yar Khan and reject the item, if not found according to the stated specifications.

- 5.13.** The University reserves the right to claim compensation for the losses caused by delay in the delivery of services.
- 5.14.** It is the sole responsibility of the bidder to comply with local, national and international laws.
- 5.15.** In case any supplies/material is 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.
- 5.16.** All the proposals submitted will become the property of the University.
- 5.17.** 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.
- 5.18.** Delivery of the items will be free of charge at Site/Activity place/Khwaja Fareed University of Engineering & Information Technology, Rahim Yar Khan during the office hours or according to the schedule of end user with a copy of Delivery Challan.
- 5.19.** 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

Framework Contract for Networking Items of New Academic Buildings at KFUEIT, RYK

Sr. No.	Specifications/Minimum Requirements	Unit of Measure	Qty.
01	<p>Network Rack 42U "Networking Rack 42U Networking Rack 42U having following equivalent or better specification is required Network Rack cabinet 42U Dual vented rear doors 800mm(W) X 1000mm(D) Minimum 2xPower Distribution Panels Mesh front doors Moveable & Lockable Wheels Foundation Minimum Rack Unit Weight 250lbs Color Black Accessories: Sidewalls Split rear doors Bolt Down Kits Cable Management Power Strips – vertical or Rackmount Enclosure Monitoring System Toolless Blanking Panels, Fans</p>	No	4
02	<p>Network Switch 48 Port, 10/100/1000Base-T, 4 x 1 1/10GbE, SFP/SFP+ Network Switch 48 Port, 10/100/1000Base-T, 4 x 1 1/10GbE, SFP/SFP+ Better than or Equivalent to Juniper EX 2300 48 Port Rack mountable: 1 Rack Unit Backplane: 80 Gbps Virtual Chassis interconnect to link up to four switches as a single logical device DRAM 2 GB Flash 2 GB CPU 1.25GHz ARM CPU GbE port density per system 52 (48 host ports + four-port SFP/SFP+ uplinks) Supported Optics: 10/100/1000BASE-T connector type RJ-45 GbE SFP optic/connector type: RJ-45, or LC SFP fiber supporting 1000BASE-T SFP, SX (multimode), LX (single mode), or LH (single mode) Packet-Switching Capacities (Maximum with 64-Byte Packets): 176 Gbps Access Security:</p>	No	08

	<p>MAC limiting Allowed MAC addresses—configurable per port Sticky MAC (persistent MAC address learning) Dynamic ARP inspection (DAI) Proxy ARP Static ARP support DHCP snooping 802.1X port-based 802.1X multiple supplicants 802.1X with VLAN assignment 802.1X with authentication bypass access (based on host MAC address) Each 04 16 802.1X with VoIP VLAN support 802.1X dynamic ACL based on RADIUS attributes 802.1X Supported EAP types: Message Digest 5 (MD5), Transport Layer Security (TLS), Tunneled Transport Layer Security (TTLS), Protected Extensible Authentication Protocol (PEAP) IPv6 RA Guard IPv6 Neighbor Discovery Inspection Captive Portal Static MAC authentication MAC-RADIUS Control plane DoS protection Fallback authentication Trusted Network Connect (TNC) certified High Availability Link Aggregation 802.3ad (LACP) support: Number of LAGs supported: 128 Maximum number of ports per LAG: 8 Tagged ports support in LAG Uplink Failure Detection (UFD) Quality of Service (QoS) Layer 2 QoS Layer 3 QoS Ingress policing: one-rate two-color; two-rate three-color markers Hardware queues per port: 8 Scheduling methods (egress): Strict Priority (SP), shaped deficit weighted round-robin (SDWRR) 802.1p, DSCP /IP precedence trust and marking L2-L4 classification criteria: Interface, MAC address, Ether type, 802.1p, VLAN, IP address, DSCP/IP precedence, TCP/UDP port numbers Congestion avoidance capabilities: Tail drop and WRED</p>		
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	<p>Services and Manageability</p> <p>CLI</p> <p>Web interface</p> <p>Out-of-band management: Serial, 10/100BASE-T Ethernet</p> <p>ASCII configuration</p> <p>Rescue configuration</p> <p>Configuration rollback</p> <p>Image rollback</p> <p>Element management tools: Junos Space Network Management Platform</p> <p>Simple Network Management Protocol (SNMP): v1, v2c, v3</p> <p>Remote monitoring (RMON) (RFC 2819) Groups 1, 2, 3, 9</p> <p>Network Time Protocol (NTP)</p> <p>DHCP server</p> <p>DHCP client and DHCP proxy</p> <p>DHCP relay and helper</p> <p>RADIUS authentication</p> <p>TACACS+ authentication</p> <p>SSHv2</p> <p>Secure copy</p> <p>HTTP/HTTPS</p> <p>17</p> <p>DNS resolver</p> <p>System log logging</p> <p>Temperature sensor</p> <p>Configuration backup via FTP/secure copy</p> <p>Interface range</p> <p>1 Year Hardware Warranty</p>		
03	<p>Network Switch 24Port PoE+, 10/100/1000Base-T, 4 x 1 1/10GbE, SFP/SFP+ Better than or Equivalent to Juniper Networks</p> <p>EX2300-24P PoE+</p> <p>Subtype Gigabit Ethernet</p> <p>Ports 24 x 10/100/1000 (PoE+) + 4 x Gigabit SFP / 10 Gigabit SFP+</p> <p>Power Over Ethernet (PoE) PoE+</p> <p>PoE Budget 370 Watt</p> <p>Performance Switching capacity: 128 Gbps</p> <p>Throughput: 95 Mpps</p> <p>Jumbo Frame Support 9216 bytes</p> <p>Authentication Method Extensible Authentication Protocol (EAP), RADIUS, Secure Shell v.2 (SSH2), TACACS+</p> <p>Flash Memory 2 GB</p> <p>MAC Address Table Size 16000 entries</p> <p>Authentication Method RADIUS, TACACS+, Secure Shell v.2 (SSH2), Extensible Authentication Protocol (EAP)</p> <p>Power Over Ethernet (PoE) PoE+</p> <p>Encryption Algorithm MD5, TLS, PEAP, TTLS</p>	No	04

	<p>Routing Protocol RIP-1, RIP-2, OSPFv3, static IPv4 routing, static IPv6 routing, RIPng, CIDR Jumbo Frame Support 9216 bytes PoE Budget 370 W Manufacturer Juniper Networks, Inc. NETWORKING MAC Address Table Size 16000 entries Subcategory network hubs and switches Subtype Gigabit Ethernet Form Factor desktop, rack-mountable Type Switch Advanced Switching Layer 3 Features ARP support, Access Control List (ACL) support, BOOTP support, Cable Diagnostics Function, Captive Portal, Class of Service (CoS), DHCP client, DHCP proxy, DHCP relay, DHCP server, DHCP snooping, DiffServ Code Point (DSCP) support, DiffServ support, DoS attack prevention, Dynamic ARP Inspection (DAI), Energy Efficient Ethernet, High Availability, ICMP Router Discovery Protocol (IRDP), IP Precedence, Internet Control Message Protocol (ICMP), Management Information Base (MIB), Multiple Spanning Tree Protocol (MSTP) support, Multiple VLAN Registration Protocol (MVRP), NTP time synchronization, Neighbor Discovery Protocol (NDP), Per-VLAN Spanning Tree Plus (PVST+), Quality of Service (QoS), RARP support, Rapid Spanning Tree Protocol (RSTP) support, Redundant trunk group (RTG), SNTP support, Secure Copy (SCP), Smoothed Deficit Weighted Round Robin (SDWRR), Spanning Tree Protocol (STP) support, Strict Priority (SP), VLAN Spanning Tree Protocol (VSTP), VLAN Stacking, VLAN support, auto-uplink (auto MDI/MDI-X), port-based access control, port mirroring, sFlow, store Each 02 18 and forward, system log, tagged VLAN, temperature sensor Compliant Standards IEEE 802.1BR, IEEE 802.1D, IEEE 802.1Q,</p>		
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	<p>IEEE 802.1ab (LLDP), IEEE 802.1ak, IEEE 802.1p, IEEE 802.1s, IEEE 802.1w, IEEE 802.1x, IEEE 802.3, IEEE 802.3ab, IEEE 802.3ad (LACP), IEEE 802.3af, IEEE 802.3ah, IEEE 802.3at, IEEE 802.3u, IEEE 802.3z Jumbo Frame Support 9216 bytes Manageable Yes Routing Protocol CIDR, OSPFv3, RIP-1, RIP-2, RIPng, static IPv4 routing, static IPv6 routing Remote Management Protocol CLI, HTTP, HTTPS, RMON 1, RMON 2, RMON 3, RMON 9, SNMP, SNMP 1, SNMP 2c, SNMP 3, SSH, TFTP, Telnet Power Over Ethernet (PoE) PoE+ PORTS Type 10/100/1000 (PoE+) Qty 24 PERFORMANCE Type switching capacity, throughput Value 128 Gbps, 95 Mpps PORTS (2ND) Type Gigabit SFP / 10 Gigabit SFP+ Qty 4 CAPACITY Type ACL entries, ARP entries, IPv4 hosts, IPv4 routes (Multicast), IPv4 routes (Unicast), IPv6 hosts, IPv6 routes (Multicast), IPv6 routes (Unicast), LAG groups, Multiple Spanning Tree Protocol instances, QoS hardware queues per port, VLAN Spanning Tree Protocol instances, active VLANs, maximum member ports per LAG. 1 Year Hardware Warranty</p>		
04	<p>Patch Panel 24 Port Loaded with CAT6 I/O and Cable Management Tray Patch Panel 24 Port Loaded with CAT6 I/O and Cable Management Tray having following equivalent or better specification is required Modular Patch Panel, Unshielded, Shuttered 24 Port, IU, Rack Mount, Color Black, With Loaded Cat 6 I/O and Rear Cable Management Tray</p>	No	20
05	<p>Networking Face Plate with Dual Network I/O and back Box Networking Face Plate with Dual Network I/O and back Box having following equivalent or better specification is required 2x Rj45 CAT6 I/O that must support tool free connection Face plate for keystone jacks. Cable tie Dust cover Minimum 85*85mm Color pure white</p>	No	300

06	<p>UTP CAT6 Networking Cable Roll Box. UTP CAT6 Networking Cable Roll having following equivalent or better specification is required Cable Length 300m Must be ISO Certified Brand Conductor: Stranded Bare Copper (24 AWG) Insulation: Nominal Wall Thickness: 0.178mm Min. Thickness: 0.153mm Color Code: Pair 1: Blue & White/Blue Pair 2: Orange & White/Orange Pair 3: Green & White/Green Pair 4: Brown & White/Brown Jacket: Min. Thickness: 0.458 mm Diameter: 5.8mm ± 0.3mm Impedance (Zo): 85~115Ω (1~250 MHz) Max. Conductor Resistance: 14.00Ω/100m 20o Max. Vendor must present Authorization letter from the manufacturer.</p>	No	35
07	<p>Wireless Indoor Access point with Controller Integration License (Capacity 100 Clients) "Equivalent or better than Ruckus R310" AP must be compatible with Ruckus Zone Director Wi-Fi Standards IEEE 802.11a/b/g/n/ac Peak PHY Rates 2.4GHz: 300Mbps 5 GHz: 867Mbps Client Capacity Up to 100 clients per AP Antenna Optimization BeamFlex POE Support Ethernet 1 x 1GbE port, RJ-45 Operating Temperature 0 °C (32 °F) to 40 °C (149 °F)</p>	No	15
08	<p>Wireless Indoor Access point with Controller Integration License (Capacity 512 Clients) "Equivalent or better than Ruckus R510" Must be compatible with Ruckus Zone director Dual-band 802.11abgn/ac (802.11ac Wave 2), Wireless Access Point, 2x2:2 streams, MU-MIMO, Beam Flex+, dual ports, 802.3af PoE support. 2.4GHz: 300 Mbps 5GHz: 867 Mbps Client Capacity: Up to 512 clients per AP Antenna Optimization: BeamFlex+ Polarization Diversity with Maximal Ratio Combining (PD-MRC) Mesh: Smart Mesh™ wireless meshing technology. Self-healing Mesh Ethernet: 2 x 1GbE ports, RJ-45, PoE in on one port Power over Ethernet with Category 5/5e/6 cable LLDP USB 1 USB 2.0 port, Type A Operating Temperature -10°C (14°F) - 50°C (122°F)</p>	No	15

**Framework Contract for Networking Items of New Academic
Buildings at KFUEIT, RYK
(Bid Form)**

Sr. No.	Item Name	Unit of Measure	Qty.	Rate Per unit (inclusive of all taxes and Shipment charges)	Total Price (inclusive of all taxes and Shipment charges)
01	Network Rack 42U	No	04		
02	Network Switch 48 Port, 10/100/1000Base-T, 4 x 1 1/10GbE, SFP/SFP+	No	08		
03	Network Switch 24Port PoE+, 10/100/1000Base-T, 4 x 1 1/10GbE, SFP/SFP+ Better than or Equivalent to Juniper Networks	No	04		
04	Patch Panel 24 Port Loaded with CAT6 I/O and Cable Management Tray	No	20		
05	Networking Face Plate with Dual Network I/O and back Box	No	300		
06	UTP CAT6 Networking Cable Roll Box.	No	35		
07	Wireless Indoor Access point with Controller Integration License (Capacity 100 Clients)	No	15		
08	Wireless Indoor Access point with Controller Integration License (Capacity 512 Clients)	No	15		

Sr. No.	Item Name	Unit of Measure	Qty.	Rate Per unit (inclusive of all taxes and Shipment charges)	Total Price (inclusive of all taxes and Shipment charges)
TOTAL: _____					
Total in Words:					_____

Company Evaluation Criteria

- i. Profile of company complete in all respect
- ii. List of Previous/Current customers, Purchase Orders of related Services with contact person and telephone/fax numbers.
- iii. Copy of National Tax Registration Certificate or Copy of Online Taxpayer Verification
- iv. Copy of Sales Tax Registration Certificate or Copy of Online Active Taxpayer
- v. Bank letter of financial standing /Bank Statement
- vi. An affidavit on Rs 100/- Stamp Paper issued after date of publishing of tender which illustrate that currently they are not black listed or de-barred by any Government/Semi-Government Department to participate in bidding. Failure to submit such affidavit may lead to disqualification.
- vii. Detailed item specifications or Services matched corresponding to the BOQ as given at **Annex 'A'**
- viii. Proposed delivery, response time, plan for rendering service
- ix. Authorization Letter from Manufacturers where Applicable
- x. Signed and Stamped Complete Tender document
- xi. Bank Draft of the Earnest Money

Note: Basic Evaluation Criteria is mandatory to fulfill to qualify for detailed evaluation. Failure to meet and submit all documents related to basic evaluation may lead to disqualification.

2. Detailed Evaluation

(Minimum Passing Score Required is 65 Points for qualifying to Financial Opening)

DETAILED EVALUATION CRITERIA FOR TENDER			
Specifications are available at Annex-A			
Sr. No	Item Name and Description	Marks	Max Marks
1	Past Performance/Experience of the Bidder (Reg. with GST/NTN) Attach copy of all supporting documents	--	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	--
2	Relevant Experience (Attach copy of all supporting documents)	--	10
2.1	1 – 5 years' experience	3	--
2.2	6 – 10 years' experience	6	--
2.3	11 and above year experience	10	--
3	Financial Position/ Status (Attach copy of all supporting documents)	--	10
3.1	Last sales tax paid Form	4	--
3.2	Bank Certificate (satisfactory) attach original bank certificate indicating financial status	2	--
3.3	Statement Worth (Min 2 m) attach all supporting documents	4	--
4	After Sale Services Available (Attach copy of all supporting documents)	--	10
5	Technical Evaluation of quoted items (Attach copy of all supporting documents)	--	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 favor 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	
Total		--	100