

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



Tender Document

Tender No. IT-021

Procurement of IT Equipment for ICT Department

at

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

TENDER DOCUMENT

TENDER No. IT-021

Procurement of IT Equipment for ICT Department

at

Khwaja Fareed University of Engineering and Information Technology

TENDER PRICE Rs. 2,000/-

Last date of submission: 04-07-2019

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 “**Procurement of IT Equipment for ICT Department**” 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 **12:30 PM** on **04-07-2019**. 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.

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. Zaid Naeem, Network Administrator, zaid.naeem@kfueit.edu.pk

Tel. # 068-5882499

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
- iii. List of Previous/Current customers of related supply.
- iv. Detailed product 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/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 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 decision of award of contract along with judicial stamp paper of the value 0.25 % of total cost 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 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 get the item inspected 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 equipment.
- 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.
- 5.19. Delivery of the items will be free of charge at Khwaja 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 'D'** 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

Procurement of IT Equipment for ICT Department

Sr. No.	Specifications/Minimum Requirements	Unit of Measure	Total Quantity
01	<p><u>Network Video Recorder, 64 Channel</u></p> <p>"IP Video Input 64 Channel Two-way Audio Input 1-Ch, RCA Incoming Bandwidth 320Mbps Incoming Bandwidth 320Mbps Remote Users 128 HDMI/ VGA Output HDMI1/ VGA: 1920x1080p /60Hz, 1920x1080p /50Hz, 1600x1200 /60Hz, 1280x1024 /60Hz, 1280x720 /60Hz, 1024x768 /60Hz HDMI2: 4K (3840x2160) /60Hz, 4K (3840x2160)/30Hz, 1920x1080p /Hz, 1920x1080p /50Hz, 1600x1200 /60Hz, 1280x1024 /60Hz, 1280x720 /Hz, 1024x768 /60Hz CVBS Output 1-ch, BNC Recording Resolution 12MP/8MP/6MP/5MP/4MP/3MP/1080p/960p/720p/D1/2CIF/CIF Audio Output 1Ch, RCA Synchronous Playback 16-Ch Corridor Mode Screen 3/4/5/7/9/10/12/16/32 Decoding format Ultra 265, H.265, H.264 Sata 8 Sata Interfaces Capacity Up to 10TB for each HDD eSata 1 eSata interface N+1 Hot spare Support VCA Detection Face Detection, Intrusion detection, Cross line detection, Audio detection, Defocus detection, Scene change detection, Auto tracking VCA Search Face Search, Behavior search Statistical Analysis People Counting Array Type RAID 0, 1, 5, 6, 10 Network Interface 2 RJ45 10M/ 100M 1000M self-adaptive Ethernet Interfaces Serial Interface 1 x RS232, 1 x RS485 USB Interface Front panel: 2 x USB 2.0, Rear panel: 1 x USB3.0 Alarm In 16-Ch</p>	Each	01

	Alarm Out 4-Ch 1 Year Hardware Warranty"		
02	<p><u>Network Video Recorder, 32 Channel</u> " IP Video Input 32 Channel Two-way Audio Input 1-Ch, RCA Incoming Bandwidth 320Mbps Incoming Bandwidth 320Mbps Remote Users 128 HDMI/ VGA Output HDMI1/ VGA: 1920x1080p /60Hz, 1920x1080p /50Hz, 1600x1200 /60Hz,</p> <p>1280x1024 /60Hz, 1280x720 /60Hz, 1024x768 /60Hz HDMI2: 4K (3840x2160) /60Hz, 4K (3840x2160)/30Hz, 1920x1080p /Hz, 1920x1080p /50Hz, 1600x1200 /60Hz, 1280x1024 /60Hz, 1280x720 /Hz, 1024x768 /60Hz CVBS Output 1-ch, BNC Recording Resolution 12MP/8MP/6MP/5MP/4MP/3MP/1080p/960p/720p/D1/2CIF/CIF Audio Output 1Ch, RCA Synchronous Playback 16-Ch Corridor Mode Screen 3/4/5/7/9/10/12/16/32 Decoding format Ultra 265, H.265, H.264 Sata 8 Sata Interfaces Capacity Up to 10TB for each HDD eSata 1 eSata interface N+1 Hot spare Support VCA Detection</p> <p>Face Detection, Intrusion detection, Cross line detection, Audio detection, Defocus detection, Scene change detection, Auto tracking</p> <p>VCA Search Face Search, Behavior search Statistical Analysis People Counting Array Type RAID 0, 1, 5, 6, 10 Network Interface 2 RJ45 10M/ 100M 1000M self-adaptive Ethernet Interfaces Serial Interface 1 x RS232, 1 x RS485 USB Interface Front panel: 2 x USB 2.0, Rear panel: 1 x USB3.0 Alarm In 16-Ch Alarm Out 4-Ch 1 Year Hardware Warranty"</p>	Each	01

03	<p>Network Video Recorder, 8 Channel</p> <p>Support Ultra 265/H.265/H.264 video formats</p> <ul style="list-style-type: none"> • 8/16-channel input • Third-party IP cameras supported with ONVIF conformance: Profile S, Profile G, Profile T • Support 1-ch HDMI, 1-ch VGA, HDMI at up to 4K(3840x2160) resolution • Up to 12 Megapixels resolution recording • Up to 10TB for each disk • Various fisheye dewarping modes for live view and playback for both web interface and GUI • Plug & Play with up to 8/16 independent PoE network interfaces • ANR technology to enhance the storage reliability when the network is disconnected • Support cloud upgrade <p>Network</p> <p>Incoming Bandwidth 80Mbps 160Mbps</p> <p>Outgoing Bandwidth 160Mbps 320Mbps</p> <p>Remote Users 128</p> <p>Protocols P2P, UPnP, NTP, DHCP, PPPoE</p> <p>Video/Audio Output</p> <p>HDMI/VGA Output VGA:</p> <p>1920x1080p /60Hz, 1920x1080p /50Hz, 1600x1200 /60Hz, 1280x1024 /60Hz, 1280x720 /60Hz, 1024x768 /60Hz</p> <p>HDMI:</p> <p>4K (3840x2160) /60Hz, 4K (3840x2160) /30Hz, 1920x1080p /60Hz, 1920x1080p /50Hz, 1600x1200 /60Hz, 1280x1024 /60Hz, 1280x720 /60Hz, 1024x768 /60Hz</p> <p>Recording Resolution</p> <p>12MP/8MP/6MP/5MP/4MP/3MP/1080p/960p/720p/D1/2CIF/CIF</p> <p>Audio Output 1-ch, RCA</p> <p>Synchronous Playback 8-ch 16-ch</p> <p>Corridor Mode Screen 3/4/5/7/9 3/4/5/7/9/10/12/16</p> <p>Decoding</p> <p>Decoding format Ultra 265, H.265, H.264</p> <p>Live view/</p> <p>Playback</p> <p>12MP/8MP/6MP/5MP/4MP/3MP/1080p/960p/720p/D1/2CIF/CIF</p> <p>Capability 3 x 12MP@25, 4 x 4K@30, 8 x 4MP@30, 16 x 1080P@30</p> <p>Hard Disk</p> <p>SATA 2 SATA interfaces</p> <p>Capacity up to 10TB for each disk</p> <p>Smart</p> <p>VCA Detection Face detection, Intrusion detection, Cross line detection, Audio detection, Defocus detection, Scene change detection, Auto tracking</p> <p>VCA Search Face search, Behavior search</p> <p>Statistical Analysis People counting</p> <p>External Interface</p> <p>Network Interface 1 RJ-45 10M/100M/1000M self-adaptive Ethernet Interface</p> <p>USB Interface Front panel: 1 x USB2.0, Rear panel: 1 x USB3.0</p> <p>Alarm In 4-ch</p>	Each	01
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	<p>Alarm Out 1-ch PoE Interface 8 independent 100 Mbps PoE network interfaces 16 independent 100 Mbps PoE network interfaces Max Power Max 30W for single port Max 130W in total (16.25W for each) Max 30W for single port Max 240W in total (15W for each) Supported Standard IEEE 802.3af/at</p>		
04	<p><u>2TB SATA hard disk</u> Capacity: 2 TB 1-year hardware warranty</p>	Each	01
05	<p><u>UPS, Capacity 1 KVA</u> "Key Features: Built-in intelligent 3-stage charger control for efficient charging and to prevent overcharging Light weighted wall mounted rack design User friendly LCD & LED Multiple protections: low battery alarm, low battery shutdown, overload protection, over heating protection, short circuit protection Highly efficient DC-to-AC conversion minimizing energy loss Free AC & DC cables Innovative charging system with Auto Cutoff when battery is fully charged & especially designed to suit local type batteries and local weather conditions"</p>	Each	04
06	<p><u>External Battery</u> "Battery Specs: Minimum Backup 2 Hours Liquid Acid 180 Amp 21 Plates Better than or Equivalent to Homage Hexa HEX-1004 700W Home Inverter 1 Year Hardware Warranty"</p>	Each	04
07	<p><u>CCTV 4MP Fish Eye Camera</u> Image sensor 1/3", 4.0 megapixel, progressive scan, CMOS Lens 1.6mm@F1.6 DORI Distance Lens (mm) Detect (m) Observe (m) Recognize (m) Identify (m) 1.6 36 14.4 7.2 3.6 Angle of View 180° Shutter Auto/Manual, shutter time: 1 ~ 1/100000s Minimum Illumination Colour: 0.01Lux (F1.6, AGC ON) 0Lux with IR Day/Night IR-cut filter for day & night function Digital noise reduction 2D/3D DNR S/N Ratio >55dB IR Range UP to 10m(33ft) Defog Digital Defog</p>	Each	02

	<p>WDR 120dB Video Compression Ultra265, H.264, MJPEG H.264 code profile Baseline profile, Main Profile, High Profile Frame Rate Main Stream : 4MP (2560*1440), Max 25fps; Sub Stream: 1080P (1920*1080), Max 25fps; Third Stream: D1(720*576), Max 25fps BLC Supported OSD Up to 8 OSDs Privacy Mask Up to 8 areas ROI Up to 8 areas Motion Detection Up to 4 areas General Function Watermark, IP Address Filtering, Tampering Alarm, Access Policy, ARP Protection, RTSP Authentication, User Authentication Storage Edge Storage Micro SD, up to 256GB Network Storage ANR Network Protocols IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, QoS Compatible Integration ONVIF (Profile S, Profile G, Profile T), API Live View Display Mount Type Support table, wall, and ceiling Interface Network 1 RJ45 10M/100M Base-TX Auto-adaptive Ethernet Video Output 1 BNC</p>		
08	<p><u>CCTV Bullet Network Camera 4MP</u> Sensor 1/3" , 4.0 megapixel, progressive scan, CMOS Lens 4.0mm@F2.0 Angle of View (H) 78.9° Angle of View (V) 39.6° Angle of View (O) 97.0° Adjustment angle Pan: 0°~360° Tilt: 0°~90° Rotate: 0°~360° Shutter Auto/Manual, 1~1/100000 s Minimum Illumination Colour: 0.03 Lux (F2.0, AGC ON) 0 Lux with IR on Digital noise reduction 2D/3D DNR Day/Night IR-cut filter with auto switch (ICR) S/N >52dB IR Range Up to 30m (98 ft) IR range WDR DWDR Video Compression Ultra 265,H.265, H.264, MJPEG H.264 code profile Baseline profile, Main Profile Frame Rate Main Stream:4MP (2592*1520): Max. 20 fps; Sub Stream:720P (1280*720): Max. 20 fps; Third Stream:D1 (720×576): Max. 20 fps HLC Supported</p>	Each	16

	<p>BLC Supported OSD Up to 4 OSDs Privacy Mask Up to 8 areas ROI Up to 2 areas Motion Detection Up to 4 areas Protocols IPv4,IGMP,ICMP,ARP,TCP,UDP,DHCP, RTP,RTSP,RTCP,DNS,DDNS,NTP,FTP,UPnP,HTTP,HTTPS,SMTP, SSL Compatible Integration ONVIF(Profile S, Profile T), API Network 10/100M Base-TX Ethernet</p>		
09	<p><u>Android LED TV 50"</u> "Features Connectivity 2 USB Ports, 2 HDMI Ports Display 50 Inch, LED, Full HD, 1920x1080 Design 1117.8 x 705.6 x 310.5 mm, Weight: 12.3 kg, Colour: Black Hdmi Ports 2 Usb Supports Audio, Video, Image Rf Inputanalog Coaxial Ports 1 Component Outputrgb Input Ports 1 Composite Inputaudio Video Cable Ports 1 Usb Ports 2 Headphonespeaker Output Ports 1 Android TV: Yes 1 Year Hardware Warranty"</p>	Each	04
10	<p><u>8TB SATA Hard Drive</u> "Capacity: 8TB Speed: 7,200RPM Interface Types: SATA Form Factor: 3.5inx1.0in LFF Hard Drive Sector Size: 512 / 512e Sustained Throughput: 190 Electrical Interface: SATA 600 - 6.0Gbps On-Board Cache: 256MB 1 Year Hardware Warranty"</p>	Each	06
11	<p><u>Network Rack 42U</u> "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>	Each	05

	Batter than or Equivalent to TrippLite/Toten 42U rack"		
12	<p><u>RFID CARD Printer</u> "Side Printing: Single or Dual Print Method: HDP® Dye-Sublimation / Resin Thermal Transfer Print Speed: Up to 124 cards per hour (YMCK with transfer) Accepted Card Sizes: CR-80 Warranty: 3 years (printer); Lifetime (printhead) Dual-sided printing Card flattener 200-card input hopper" "Resolution: 300 dpi (11.8 dots/mm) Colors: Up to 16.7 million / 256 shades per pixel 1 Year Hardware Warranty</p>	Each	02
13	<p><u>32GB DDR4-2666 ECC RDIMM RAM for Dell Server</u> "Capacity: 32GB DDR4-2666 ECC DIMM Type: RDIMM Data rate: Minimum 2400 MT/s Dual Rank x8 Data Width Must be compatible with Dell Server (Power Edge R730) 1 Year Hardware Warranty"</p>	Each	06
14	<p><u>VOIP / SIP Phone</u> Better than or equivalent to Grandstream GXP 1625 Protocols/Standards SIP RFC3261, TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, ARP/RARP, ICMP, DNS (A record, SRV, NAPTR), DHCP, PPPoE, SSH, TFTP, NTP, STUN, SIMPLE, LLDP- MED, LDAP, TR-069, 802.1x, TLS, SRTP Network Interfaces Dual, auto-sensing 10/100 Mbps Ethernet ports, integrated PoE Graphic Display 132 x 48 backlit graphical LCD display Feature Keys 2 line keys with dual-color LED and 2 SIP accounts, 3 XML programmable context tion keys sensitive for MUTE, soft HEADSET, keys, 5 (navigation, TRANSFER, menu) CONFERENCE, keys. 13 SEND dedicated and REDIAL, func- SPEAKERPHONE, VOLUME, PHONEBOOK, MESSAGE, HOLD, PAGE/INTER- COM, RECORD, HOME Support for G.711µ/a, G.722 (wide-band), G.723, G.726-32, G.729 A/B, iLBC, Voice Codecs in-band and out-of-band DTMF (In audio, RFC2833, SIP INFO), VAD, CNG, AEC, PLC, AJB, AGC Telephony Features Hold, transfer, forward (unconditional/no-answer/busy), 3-way conferen- cing, rance call (BLA), park/pickup, Downloadable shared- call phone appearance book (XML, (SCA) LDAP, / up bridged-line- appea- to 500 items), call waiting, call history (up to 200 records), off- hook auto dial, auto answer, click-to-dial, server redundancy flexible & dial fail-over plan, hot desking, personalized music ringtones, Headset Jack RJ9 headset jack (allowing EHS with Plantronics headsets) HD Audio Yes, HD handset and speakerphone with support for wideband audio</p>	Each	50

	<p>Base Stand</p> <p>QoS Layer 2 QoS (802.1Q, 802.1P) and Layer 3 (ToS, DiffServ, MPLS) QoS</p> <p>User and administrator level access control, MD5 and MD5-sess based Security authentication, 256-bit AES encrypted configuration file, TLS, SRTP, HTTPS, 802.1x media access control</p> <p>Multi-language English, simplified German, and traditional Italian, French, Chinese, Spanish, Korean, Portuguese, Japanese and Russian, more Croatian, Upgrade/Provisioning Firmware upgrade via TFTP / HTTP / HTTPS, mass provisioning using TR-069 or AES encrypted XML configuration file</p> <p>Power & Green Energy Efficiency Universal Power Supply Input 100-240VAC 50-60Hz; Output +5VDC, 600mA PoE: ieee802.3af Class 2, 3.84W-6.49W</p> <p>Temperature and Humidity Operation: 0°C to 40°C, Storage: -10°C to 60°C , Humidity: 10% to 90% Non-condensing</p> <p>Package Must Contain: network cable, phone, Quick handset</p> <p>Installation with cord, Guide, base brochure, stand, universal GPL License power supply</p> <p>Compliance:</p> <p>FCC: Part 15 (CFR 47) Class B CE : EN55022 Class B, EN55024, EN61000-3-2, EN61000-3-3, EN60950-1 RCM: AS/ACIF S004; AS/NZS CISPR22/24; AS/NZS 60950; AS/NZS 60950.1</p> <p>1 Year Hardware Warranty</p>		
15	<p><u>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</u></p> <p>Rack mountable: 1 Rack Unit</p> <p>Backplane: 80 Gbps Virtual Chassis interconnect to link up to four switches as a single logical device</p> <p>DRAM 2 GB</p> <p>Flash 2 GB</p> <p>CPU 1.25GHz ARM CPU</p> <p>GbE port density per system 52 (48 host ports + four-port SFP/SFP+ uplinks)</p> <p>Supported Optics: 10/100/1000BASE-T connector type RJ-45</p> <p>GbE SFP optic/connector type: RJ-45, or LC SFP fiber supporting 1000BASE-T SFP, SX (multimode), LX (singlemode), or LH (single-mode)</p> <p>Packet-Switching Capacities (Maximum with 64-Byte Packets): 176 Gbps</p> <p>Access Security:</p> <p>MAC limiting</p> <p>Allowed MAC addresses—configurable per port</p> <p>Sticky MAC (persistent MAC address learning)</p> <p>Dynamic ARP inspection (DAI)</p> <p>Proxy ARP</p> <p>Static ARP support</p> <p>DHCP snooping</p> <p>802.1X port-based</p> <p>802.1X multiple supplicants</p> <p>802.1X with VLAN assignment</p> <p>802.1X with authentication bypass access (based on host MAC address)</p>	Each	04

<p>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, Ethertype, 802.1p, VLAN, IP address, DSCP/IP precedence, TCP/UDP port numbers Congestion avoidance capabilities: Tail drop and WRED Services and Manageability CLI Web interface Out-of-band management: Serial, 10/100BASE-T Ethernet ASCII configuration Rescue configuration Configuration rollback Image rollback Element management tools: Junos Space Network Management Platform Simple Network Management Protocol (SNMP): v1, v2c, v3 Remote monitoring (RMON) (RFC 2819) Groups 1, 2, 3, 9 Network Time Protocol (NTP) DHCP server DHCP client and DHCP proxy DHCP relay and helper RADIUS authentication TACACS+ authentication SSHv2 Secure copy HTTP/HTTPS</p>		
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	<p>DNS resolver System log logging Temperature sensor Configuration backup via FTP/secure copy Interface range 1 Year Hardware Warranty</p>		
16	<p><u>Network Switch 24Port PoE+, 10/100/1000Base-T, 4 x 1 1/10GbE, SFP/SFP+ Better than or Equivalent to Juniper Networks EX2300-24P PoE+</u> Subtype Gigabit Ethernet Ports 24 x 10/100/1000 (PoE+) + 4 x Gigabit SFP / 10 Gigabit SFP+ Power Over Ethernet (PoE) PoE+ PoE Budget 370 Watt Performance Switching capacity: 128 Gbps Throughput: 95 Mpps Jumbo Frame Support 9216 bytes Authentication Method Extensible Authentication Protocol (EAP), RADIUS, Secure Shell v.2 (SSH2), TACACS+ Flash Memory 2 GB MAC Address Table Size 16000 entries Authentication Method RADIUS, TACACS+, Secure Shell v.2 (SSH2), Extensible Authentication Protocol (EAP) Power Over Ethernet (PoE) PoE+ Encryption Algorithm MD5, TLS, PEAP, TTLS 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</p>	Each	02

	<p>and forward, system log, tagged VLAN, temperature sensor Compliant Standards IEEE 802.1BR, IEEE 802.1D, IEEE 802.1Q, 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. <u>1 Year Hardware Warranty</u></p>		
17	<p><u>Network Switch 24Port, 10/100/1000Base-T, 4 x 1 1/10GbE, SFP/SFP+ Better than or Equivalent to Juniper Networks EX2300-24T</u> Hardware Specifications :Switching Engine Model Store and forward DRAM 2 GB Flash 2 GB CPU 1.25GHz ARM CPU GbE port density per system 28 (24 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 (singlemode), or LH (single-mode) Physical Layer Physical port redundancy: Redundant trunk group (RTG) Cable diagnostics for detecting cable breaks and shorts Auto MDI/MDIX (medium-dependent interface/mediumdependent interface crossover) support Port speed downshift/setting maximum advertised speed on 10/100/1000BASE-T ports Digital optical monitoring for optical ports</p>	Each	02

<p>Packet-Switching Capacities (Maximum with 64-Byte Packets) 128 Gbps</p> <p>Additional Feature Specifications:</p> <p>Layer 2/Layer 3 Throughput (Mpps) (Maximum with 64 Byte Packets) 95 Mpps (wire speed)</p> <p>Layer 2 Features</p> <p>Maximum MAC addresses in hardware: 16,000 Jumbo frames: 9216 bytes Number of VLANs supported: 4093 Range of possible VLAN IDs: 1-4094 Port-based VLAN MAC-based VLAN Voice VLAN IEEE 802.1ak: Multiple VLAN Registration Protocol (MVRP) Compatible with Per-VLAN Spanning Tree Plus (PVST+) RVI (Routed VLAN Interface) IEEE 802.1AB: Link Layer Discovery Protocol (LLDP) LLDP-MED with VoIP integration IEEE 802.1ad Q-in-Q tunneling IEEE 802.1br: Bridge Port Extension IEEE 802.1D: Spanning Tree Protocol IEEE 802.1p: CoS prioritization IEEE 802.1Q: VLAN tagging IEEE 802.1Q-in-Q: VLAN Stacking IEEE 802.1s: Multiple Spanning Tree Protocol (MSTP) Number of MST instances supported: 64 Number of VSTP instances supported: 253 IEEE 802.1w: Rapid Spanning Tree Protocol (RSTP) IEEE 802.1X: Port Access Control IEEE 802.3: 10BASE-T IEEE 802.3u: 100BASE-T IEEE 802.3ab: 1000BASE-T IEEE 802.3z: 1000BASE-X IEEE 802.3af: PoE IEEE 802.3at: PoE+ IEEE 802.3ad: Link Aggregation Control Protocol (LACP) IEEE 802.3ah: Ethernet in the First Mile</p> <p>Layer 3 Features: IPv4</p> <p>Maximum number of ARP entries: 1,500 Maximum number of IPv4 unicast routes in hardware: 512 prefixes; 4,096 host routes Maximum number of IPv4 multicast routes in hardware: 2,048 groups; 2,048 multicast routes Routing Protocols: RIP v1/v2, OSPF v1/v2 Static routing Routing policy Bidirectional Forwarding Detection (BFD) with slow timers (> 3 sec) IP directed broadcast</p> <p>Layer 3 Features: IPv6</p> <p>Maximum number of Neighbor Discovery (ND) entries: 1,500 Maximum number of IPv6 unicast routes in hardware: 512 prefixes; 2,048 host routes</p>		
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<p> Maximum number of IPv6 multicast routes in hardware: 1,024 groups; 1,024 multicast routes Neighbor discovery, system logging, Telnet, SSH, SNMP, Network Time Protocol (NTP), Domain Name System (DNS) Static routing Routing protocols: RIPng, OSPF v3 Access control lists (ACLs) (Junos OS firewall filters) Port-based ACL (PACL)—256 ingress; 256 egress VLAN-based ACL (VACL)— 256 ingress; 256 egress Router-based ACL (RACL)—256 ingress; 512 egress ACL entries (ACE) in hardware per system: 2,000 ACL counter for denied packets ACL counter for permitted packets Ability to add/remove/change ACL entries in middle of list (ACL editing) L2-L4 ACL Access Security 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) 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 </p>		
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	<p>Layer 3 QoS</p> <p>Ingress policing: one-rate two-color; two-rate three-color markers</p> <p>Hardware queues per port: 8</p> <p>Scheduling methods (egress): Strict Priority (SP), shaped deficit weighted round-robin (SDWRR)</p> <p>802.1p, DSCP /IP precedence trust and marking</p> <p>L2-L4 classification criteria: Interface, MAC address, Ethertype, 802.1p, VLAN, IP address, DSCP/IP precedence, TCP/UDP port numbers</p> <p>Congestion avoidance capabilities: Tail drop and WRED</p> <p>Multicast</p> <p>IGMP snooping entries: 2,000</p> <p>IGMP: v1, v2, v3</p> <p>IGMP snooping</p> <p>PIM-SM, PIM-SSM, PIM-DM</p> <p>Services and Manageability</p> <p>Junos OS CLI</p> <p>Web interface (J-Web)</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>DNS resolver</p> <p>System log logging</p> <p>Temperature sensor</p> <p>Configuration backup via FTP/secure copy</p> <p>Troubleshooting</p> <p>Debugging: CLI via console, telnet, or SSH</p> <p>Diagnostics: Show and debug command statistics</p> <p>Traffic mirroring (port)</p> <p>Traffic mirroring (VLAN)</p> <p>ACL-based mirroring</p> <p>Mirroring destination ports per system: 4</p> <p>LAG port monitoring</p> <p>Multiple destination ports monitored to 1 mirror (N:1)</p> <p>Maximum number of mirroring sessions: 4</p> <p>Mirroring to remote destination (over L2): 1 destination VLAN</p>		
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	Encapsulated Remote Switched Port Analyzer (ERSPAN) IP tools: Extended ping and trace		
18	<u>RUCKUS Zone Director 1200 Wireless Access Point Integration License</u>	Each	26
19	<p><u>DSLR Camera 26 Mega Pixel With Accessories</u></p> <p>Image Sensor Type :Approx. 35.9 x 24.0 mm CMOS Effective Pixels :Approx. 26.2 megapixels Aspect Ratio :3:2 Low-Pass Filter: Built in/Fixed Sensor Cleaning :EOS integrated cleaning system Colour Filter Type Primary Colour Processor Type: DIGIC 7 Lens Mount: Lens 24_105mm L2 Lens 24_70mm EF (excludes EF-S, EF-M lenses) Focal Length :Equivalent to 1.0x the focal length of the lens Image Stabilisation :Optical Image Stabilizer on compatible lens Movie: In-camera 5-axis Digital IS available.1</p> <p>LCD Monitor Type:Touch screen Vari angle 7.7cm (3.0") 3:2 Clear View II TFT, approx. 1040K dots Coverage</p> <p>Flash Modes:E-TTL II Auto Flash, Metered Manual X-sync:1/180 sec Flash Exposure Compensation +/- 3EV in 1/2 or 1/3 increments</p> <p>Long exposure noise reduction High ISO speed noise reduction (4 settings + Multi Shot Noise Reduction)</p> <p>Interfaces Computer:Hi-Speed USB (USB 2.0) Wifi: Wi-Fi (2.4GHz) Channels: IEEE802.11b, IEEE802.11g, IEEE802.11n17 Wi-Fi Security: Camera Access Point: WPA2-PSK with AES encryption or open</p> <p>Bluetooth:Bluetooth Specification Version 4.1 compliant (Bluetooth low energy technology)18 Other : HDMI output (Type-C), External microphone (3.5 mm Stereo mini jack) Storage Type :SD, SDHC or SDXC (UHS-I) card</p>	Each	01

	Accessories required: 1x Professional Tripod Camera Stand 2x 32GB SD Card Ultra High Speed 1x Flash Gun Chargeable 1x Flash Gun Extra Battery 1 Year Hardware Warranty		
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Procurement of IT Equipment for ICT Department

(Bid Form)

Sr. No.	Item Name	Unit of Measure	Total Qty.	Price per Item (inclusive of all taxes and Shipment charges)	Total Amount (inclusive of all taxes and Shipment charges)
01	<u>Network Video Recorder, 64 Channel</u>	Each	01		
02	<u>Network Video Recorder, 32 Channel</u>	Each	01		
03	<u>Network Video Recorder, 8 Channel</u>	Each	01		
04	<u>2TB SATA hard disk</u>	Each	01		
05	<u>UPS, Capacity 1 KVA</u>	Each	04		
06	<u>External Battery 180 Amp 21 plates</u>	Each	04		
07	<u>CCTV 4MP Fish Eye Camera</u>	Each	02		
08	<u>CCTV Bullet Network Camera 4MP</u>	Each	16		
09	<u>Android LED TV 50"</u>	Each	04		
10	<u>8TB SATA Hard Drive</u>	Each	06		
11	<u>Network Rack 42U</u>	Each	05		

Sr. No.	Item Name	Unit of Measure	Total Qty.	Price per Item (inclusive of all taxes and Shipment charges)	Total Amount (inclusive of all taxes and Shipment charges)
12	<u>RFID CARD Printer</u>	Each	02		
13	<u>32GB DDR4-2666 ECC RDIMM RAM for Dell Server</u>	Each	06		
14	<u>VOIP / SIP Phone</u>	Each	50		
15	<u>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</u>	Each	04		
16	<u>Network Switch 24Port PoE+, 10/100/1000Base-T, 4 x 1 1/10GbE, SFP/SFP+ Better than or Equivalent to Juniper Networks EX2300-24P PoE+</u>	Each	02		
17	<u>Network Switch 24Port, 10/100/1000Base-T, 4 x 1 1/10GbE, SFP/SFP+ Better than or Equivalent to Juniper Networks EX2300-24T</u>	Each	02		
18	<u>RUCKUS Zone Director 1200 Wireless Access Point Integration License</u>	Each	26		
19	<u>DSLR Camera 26 Mega Pixel With Accessories</u>	Each	01		

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. Signed and Stamped Complete Tender document
- x. 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 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	
Total		--	100