



## Federal Urdu University of Arts Science and Technology Islamabad.

### INVITATION of BID

(For Networking, Computing facility and Office Equipment)

*Federal Urdu University of Arts, Science & Technology Islamabad* invites sealed bids for Networking, Computing facility and Office Equipment for the Establishment of Main Campus (PSDP), from the Authorized IT firms/ distributors /*Supplier/Contractors etc.* registered with Income Tax and Sales Tax Departments and who are on Active Taxpayers List of Federal Board of Revenue for supply of *IT equipment and networking*.

2. Bidding documents containing detailed terms and conditions, etc. are available at *Purchase & Store Section of the University*. Price of the bidding document is Rs. 4,000 /-. Bidding document can also be downloaded from [www.fuuastisb.edu.pk](http://www.fuuastisb.edu.pk) against bank draft of Rs. 4,000 which will be submitted along the bidding document.

3. The bids prepared in accordance with instructions in the bidding document must reach at *Purchase & Store Section of the University* on or before *02/November/2020 at 10:30 am*. Bids will be opened the same day i.e *02/November/2020 at 11:00 am*. This advertisement is also available on PPRA website at [www.ppra.org.pk](http://www.ppra.org.pk).

ADDITIONAL REGISTRAR

Federal Urdu University of Arts, Science & Technology

Near Zero Point, G-7/1, Islamabad

Tel: 051-9252860-4 (Ext 198)

**Federal Urdu University of Arts Science and Technology**  
**G-7/1 Islamabad**

[www.fuuastisb.edu.pk](http://www.fuuastisb.edu.pk)

BIDDING Document

Sealed bids are invited from well reputed dealers/suppliers/distributors registered with Sales Tax and Income Tax Department having valid certificate from Original Equipment Manufacturers (OEM) for the Supply and installation of IT equipment for the establishment of main campus of Federal Urdu University of Arts Science and Technology Islamabad situated at Kuri Road Moza Morhian, as per detail below:

<b>Copper Working (Category A)</b>			
<b>Sr. #</b>	<b>Items</b>	<b>Qty</b>	<b>Description</b>
1	UTP Cable CAT-VI 305 meter Roll	10	
2	1 Meter CAT-VI Patch Cord	885	for patch panels
3	3 Meter CAT-VI Patch Cord	885	for face plates
4	24 Port CAT-VI Patch Panel	2	for server room only
5	cable tester	1	
6	Cable Manager	4	For server room only
<b>Fiber Working</b>			
7	(10G) Fiber Optics outdoor 24 Core single mode per (meter) with both side compatible interfaces	1300 meters Approximately	data center to all blocks ground floors
8	(10G) Fiber Optics indoor 12 Core single mode per (meter) both side compatible interfaces includes	600 meters Approximately	ground floor to other floors
9	SFP-10G-LR Compatible SFP Transceiver Module compatible with below mentioned network switches	32	
10	Fiber Duplex patch cable SC-LC,3 meter Single mode	32	
11	Indoor (ground to other floors) Fiber Optic pulling/laying testing	600 Approximately	conduits already installed
12	Outdoor Fiber Optic laying/Testing for datacenter to block connectivity	1300 Approximately	conduits already installed

13	Fiber optic splicing	240 Approximately	
<b>Fiber OFDF</b>			
14	Drawer Style Fiber OFDF (12 Ports) (10G) with cabinet and installation/interface Testing	16	for floors
15	Pigtails	150	
16	Rack mountable Fiber OFDF (48 Ports) (10G) with installation/interface Testing	1	for server room only
<b>Network Equipment/Server Room (Category B)</b>			
<b>Note:</b> Network equipment such as router/switches/firewalls includes configuration training of at least three IT staff members			
<b>Sr. #</b>	<b>Items</b>	<b>Qty</b>	<b>Description</b>
17	Core Switch Modular, Supervisor engine, 48 PORT 1G RJ-45, 48 PORT 10G(SFP) (Should be enabled including license)	1	
18	Access Layer switch Gigabit POE network switch 48 ports GigE4x10G SFP LAN base with installation on location (Should be enabled including license)	17	
19	Access Layer switch Gigabit POE network switch 24 ports GigE4x10G SFP LAN base (Should be enabled including license)	13	
20	Router, throughput 80 Gbps and the forwarding performance is over 100Mpps 6 Ports of 10 GE (GE Optical and GE electrical) with installation on location (Should be enabled including license)	1	
21	Next Generation Integrated firewall with IPS,data leakage prevention, threat Management & URL filtering (Should be enabled including license)	1	
22	Network Management Software	1	

23	42 u RACK with DPI 63 AMP Universal PDU 12 output with compatible 12 cables	1	<b>branded</b>
24	Cabinets for switches each floor	17	
25	rack mounted Server (2 x Intel® Xeon® processor E5-2600 v4 Cores 8), DDR 4 Dimm 64 GB MEMORY, 4 X 300Gb solid state SAS HARD DRIVES	4	
<b>Fire Suppression</b>			
26	Intelligent fire alarm and suppression with controlled system & accessories installed with sms Fire alerts.(supply and installation)	1	
<b>Access control</b>			
27	RFID/Bio metric access system with data center door locks and installation	1	
<b>Electrical and other work in server Room</b>			
28	Electrical work at Data center room using industrial sockets (male/female) including raised floors, fall ceiling with compatible lights, installation of Separate cable trays(power and Data) and compatible cooling system.(6 power sources with industrial socket (as per actual).	1	includes supply with installation
<b>UPS</b>			
29	UPS 1 KVA with battery bank for switches and installation on the location	17	for switches
<b>Office Equipment (Category C)</b>			
<b>S. #</b>	<b>Items</b>	<b>Qty</b>	<b>Description</b>

30	Desktop computer: Intel Core i5 with latest available generation 8 GB RAM, Hard 1TB , wifi, LED 19" and other accessories Warranty: 3 years	200	
31	Desktop Printers LASER Warranty: 3 years	19	
32	Photocopier machine Copy Speed 35-45 CPM, Memory 256 MB Resolution 1200 x 1200 dpi Warranty: 3 years	4	
33	Scanner feeder	9	
34	Telephone sets with normal dialler	150	
35	Multimedia Projectors: 3000-4500 Lumens (LCD/DLP) , Lamp Life(Full Power): 3,500 hours, Lamp Type: UHP 240w, Native Resolution 1280x800, Aspect Ratio: 16:10 (WXGA), Throw Dist (m): 1.9 - 2.2, Zoom Lens, with 6*6/6*8 wall Mount Screen and secure ceiling mounting kits and installation on the location	65	
36	RFID Cards Printer	1	
37	Customized Attendance software for RFID	1	
38	RFID and biometric Based Access Control & Attendance System Units with installation on the location	8	

Detailed specifications of above-mentioned Hardware are provided at Annex-C of this document.

### **Terms and Conditions**

#### **1. GENERAL INFORMATION:**

- a. Bidding documents, duly completed in all respects, will be received on or before 02 November, 2020 up to 1030 AM. The submission and evaluation of bids will be carried out under the "Single Stage Two Envelop Procedure".

- Technical bids will be opened by Technical Evaluation Committee, at FUUAST Islamabad on the same day at 1100 AM, in presence of bidder's representative, who may choose to attend.
- b. Bid will comprise of single package containing two separate sealed envelopes. One envelop will contain the "Technical Proposal" and the second envelop will contain the "Financial Proposal". Technically qualified bidders will be informed the date, time and venue for the opening of financial bids. Financial bids of technically disqualified bidders will be returned un-opened.
  - c. Category ( A to B) and Category (C) will be treated separately, so if the bidder want to apply for both type of items then it is need to submit bide individually.
  - d. Bids should be sent at the address of Additional Registrar FUUAST Suharwardi road near zero point G-7/1 Islamabad.
  - e. Bidder shall quote only single option; bids with multiple options will be rejected without any right of appeal.
  - f. Annex-A, Annex-B, Annex-C and Annex-D are integral part of technical and financial proposals, which may be read/filled carefully, signed and stamped by the bidders. Further, details of the annexures are mentioned below:
    - i. Annex-A consists of mandatory requirements for bidder(s).
    - ii. Annex-B consists of technical capabilities of bidder(s), which has total 100 marks, whereas minimum qualifying marks are 70%.
    - iii. Annex-C consists of technical evaluation of the product and bidder(s) may quote higher specs, however, quoting lower specs shall disqualify the bidder.
    - iv. Annex-D, comprises of financial bid format, to be followed by all bidders, the bidder should quote its rates clearly, in the financial proposal in both figures and words without any ambiguity.
    - v. The bidder must be current dealers/suppliers/distributors/partners of the principal manufacturer
    - vi. Draft agreement is also part of the Bid documents.
    - vii. The Network equipment will include the complete training of at least 4(Four) FUUAST resources

2. **BIDDER's INFORMATION**

- a. Name of Firm \_\_\_\_\_
- b. Date of establishment of business c. (documentary proof of registration etc.)  
\_\_\_\_\_
- d. Address \_\_\_\_\_
- e. Telephone No \_\_\_\_\_ Fax No. \_\_\_\_\_
- f. GST Reg. No \_\_\_\_\_
- g. National Tax No \_\_\_\_\_

3. **EVALUATION CRITERIA**

- a. The bidder should quote its rates clearly in the Financial Proposal in both figures and words.
- b. The bidder shall quote for all items of category A and B.
- c. Technical bids shall be opened and evaluated by technical evaluation committee in view of Annex-A, Annex- B and Annex-C. Bidder, obtaining at least 70% , shall be eligible for the participation in financial bid opening.
- d. Financial bids of technically qualified bidders (bidders compliant of Annex-A, Annex-B and Annex-C) shall be opened and evaluated by procurement committee of FUUAST.
- e. Work will be awarded to financially lowest evaluated bidder against each category. If two or more bidders quote equal lowest price in financial proposals, then the work will be awarded to the one having higher technical marks, in technical evaluation.

#### **4 Bid Securities**

- a) Bid security will be equal to 2% of the bid amount and will be in the shape of pay order / demand draft in favor of Federal Urdu University of Arts science and Technology, zero point SectorG7/1, Islamabad. Bid security shall be attached with the financial proposal otherwise proposal will not be accepted.
- b) Bid security will be forfeited if successful lowest bidder unable to deliver the Hardware with in stipulated time frame.
- c) Bids without Bid security will be rejected without any right of appeal.
- d) Bid security of successful bidder will be adjusted against the 10% of retention money till warranty period. However, Bid security of unsuccessful bidders will be returned after award of supply order to successful bidder.
- e) In case of cancelation of Supply Order due to default of the supplier, the Bid security shall be forfeited in favor of FUUAST (Federal Urdu University of Arts science and Technology, zero point SectorG7/1, Islamabad).
- f) Retention money equal to 10% of total bid amount will be submitted at the time of the hardware delivery, Retention money will be kept against warranty and support and will only be released after completion of warranty period and on issuance of performance certificate from two FUUAST officers one of which should be the responsible IT Officer and the other should be Administration Head.
- g) Retention Money will be forfeited in favor of FUUAST if the above mentioned officers reported hardware/software or any type of warranty/support issues related to the equipment.
- h) Retention money shall be submitted in shape of pay order / demand draft in favor of Federal Urdu University of Arts science and Technology, zero point SectorG7/1, Islamabad.
- i) Retention money will be submitted at the time of the delivery of the hardware; Hardware without retention money will not be accepted.

5. **PRICES**

- a) The bidder should quote its rates clearly in Pak Rupees in the Financial Proposal in both figures(CIF) and words as per format attached at Annex-D.
- b) The rates quoted shall remain valid for 120 days from the date of bid opening.
- c) No currency exchange rate will be applicable and bids with a condition of currency exchange rate applicability will be rejected without any right of appeal
- d) Bid(s) shall be inclusive of all applicable taxes i.e. GST etc.
- e) FUUAST will bear no transportation/carriage charges.

6. **PAYMENT PROCEDURE**

- a) No advance payment shall be made against the supply of software and Hardware mentioned in this bidding document.
- b) Payment shall be made on provision of invoice/bill, after installation and configuration of the equipment at FUUAST new campus building and issuance of satisfactory completion/stock verification/physical inspection certificate by FUUAST IT and Purchase &Store Department.
- c) Payment shall be subject to withholding of applicable taxes as per government rules.
- d) Payment will be linked with active taxpayer status of the bidder and no payment will be made until the bidder appears on ATL (Active Taxpayer List) of FBR (Federal Board of Revenue).

7. **HARDWARE**

- a) The supply of hardware should be arranged through legal channels by clearing all duties/taxes (if any) levied by the Govt.

8. **DELIVERY/COMPLETION PERIOD**

- a) All components of the tender shall be delivered within (10) weeks' time after issuance of work order.
- b) Completion time of the projects shall be eight (08) weeks after delivery at main campus of Federal Urdu University of Arts Science and Technology Islamabad situated Kuri Road Moza Morhian with provision of support mentioned in section 10.

9. **DEALER/SUPPLIER /PARTNER**

Bidder shall be a dealer/supplier/distributor/partner of their respective Switches Hardware manufacturer.

10. **WARRANTY/SUPPORT**



- a) For Supply and Installation of Network equipment Switches/routers/firewalls/UPS/servers /computers and all other components: Successful bidder will be responsible standard warranty and onsite support for three years (24X7).

11. **PENALTY**

- a) If the supplier fails to deliver within due time mentioned in the work order, then a penalty of 01% per week of the total value of work Order will be charged up to a maximum of four (04) weeks (Days less than six will be considered as one week). Thereafter, supply order will stand cancelled and Bid security will be forfeited.
- b) If the supplier fails to install/configure provided hardware/software within due time mentioned in clause 8(b) of this document, then a penalty of 01% per week of the retention money will be charged up to a maximum of four (04) weeks (Days less than six will be considered as one week). Thereafter, retention money will be forfeited in favor of FUUAST Islamabad.
- c) If the supplier fails to provide warranty / support as per certificate provided as per Annex-B (clause 3) of the bidding document, then a penalty of 01% per week of the retention money will be charged.
- d) In case of non-satisfactory performance by the supplier during the warranty period, FUUAST reserve the right to forfeit the retention money in favor of FUUAST.

12. **DISQUALIFICATIONS**

Proposals will be liable to be rejected if any deviation is found from the instructions as laid down in the bid document i.e

- a) Financial bid is submitted without the required Bid security.
- b) Offers are received after specified date and time.
- c) Specification and other requirements are not properly adhered to or different from those given in the bidding documents
- d) GST and NTN certificates are not attached and bidder is not in Active payer List of FBR
- e) Service center of the quoted brand is not in Islamabad/Rawalpindi.
- f) Bidder do not have "Valid" certificate from manufacturer.
- g) Bidder quoted multiple options, referring section 1 (d).
- h) Affidavit on Judicial Paper to the effect that the firm has not been black listed by any government/semi government/autonomous body or company isn't submitted with technical proposal.
- i) Warranty/Replacement certificate both on Judicial Paper and vendor letter head for three years.

13. **RIGHTS RESERVED**

FUUASt Islamabad reserves the rights to cancel the bid, accept or reject any bid as per PPRA rules.

**CHECKLIST**

- a. Bid security in shape of bank draft/pay order. (Yes/No) (cheques are not acceptable)
- b. Relevant documents are attached as per Annexures (Yes/No)
- c. List of such projects handled with copies of supply order. (Yes/No)
- d. Affidavit on judicial paper for not been black listed. (Yes/No)
- e. Specification and other requirements are met. (Yes/No)
- f. Service center of the quoted brand is in Islamabad/Rawalpindi (Yes/No).

Additional Registrar

FUUASt Islamabad

**General Evaluation Criteria****Annex-A**

Part A) Mandatory Requirements	
1	Firm has to produce Sales Tax and Income Tax Registration
2	Minimum three years of relevant experience
3	Sales and Service Center of the vendor must be in Islamabad / Rawalpindi
4	Vendor status should be "Active" in Tax Payers List
5	Affidavit on Judicial Paper to the effect that the firm has not been black listed by any government/semi government/autonomous body or company
6	Non-quoting International Branded items for any of the above hardware item will lead to disqualification.
7	Firm has to produce valid Authorization dealer and partner Certificate of the principal/manufacturer for Pakistan
8	Minimum three supply orders for POH / POE+ LAN access Switches

**Bidders not fulfilling the above mentioned Mandatory requirements will stand disqualified**

**Technical Capabilities of Bidder- Part-B****Annex-B**

<b>(Part B) General Evaluation</b>				
<b>Sr. #</b>	<b>Attributes</b>	<b>Max. Score</b>	<b>Points Earned</b>	<b>Criteria</b>
<b>1</b>	Detail of Offices	<b>10</b>		Firm has sales and services offices at four (4) provincial headquarters. Two and half (2.5) points for each p.h.q.
<b>2</b>	Spare Parts Availability	<b>10</b>		Firm has Spare Parts of the quoted model Depot/facility at Islamabad / Rawalpindi.
<b>3</b>	Replacement time for faulty parts under warranty equipment/parts (Certificate has to be produced) (Clause 11(c) referred)	<b>15</b>	<b>15</b>	Next Business Day
<b>4</b>	Total strength of relevant Technical Staff at Rawalpindi / Islamabad(List shall be attached with name, designation, qualification and related experience).	<b>20</b>	<b>10</b>	Firm has ten(10) or more relevant technical staff in Islamabad / Rawalpindi.
			<b>15</b>	Firm has more than seven (7) or more up to nine (9) relevant technical staff in Islamabad / Rawalpindi
			<b>5</b>	Firm has five (5) or more upto six(6) relevant technical staff in Islamabad / Rawalpindi
<b>5</b>	Firm Experience (minimum three years' experience required)	<b>20</b>		(4) points will be given for each year of experience, beyond 3 years of mandatory requirement.
<b>6</b>	Projects completed of similar nature (documentary proof be provided i.e. Supply Orders etc.)	<b>25</b>		Five points will be awarded for each project of same nature on provision of supply order/certificate

Sub Total	<b>100</b>		
Minimum qualifying marks are 60% in above table whereas Annex "C" shall be compulsory. All supporting Documents to be attached for all relevant pages of Annex-B.			

(To be included in Technical Proposal-Mandatory Requirements)

**Technical Evaluation- Part-C**

**Annex-C**

SNo	Requirement	Compliance
<b>CAT-VI cable</b>		
<b>1</b>	UTP Cable CAT-VI 305 meter Roll	
<b>1 Meter CAT-VI Patch Cord</b>		
<b>2</b>		Suitable for 600MHz High Speed Data Applications, Gigabit Ethernet, Fast Ethernet and 155Mbps TP-PMD CDDI
<b>3 Meter CAT-VI Patch Cord</b>		
<b>3</b>		Suitable for 600MHz High Speed Data Applications, Gigabit Ethernet, Fast Ethernet and 155Mbps TP-PMD CDDI
<b>24 Port CAT-VI Patch Panel</b>		
<b>4</b>		1U, 24-Port , Category 6, RJ45 keystone modular patch panel, angled, loaded
<b>Cable tester</b>		
<b>5</b>		Tests for open, short, cross, reverse and pairing connection Tests RJ45 (STP/UTP), RJ11, BNC and USB cabling Alligator clip adapter for testing common metal wires Easy-to-read LCD interface Included headphones for use in noisy areas
<b>Cable Manager</b>		
<b>6</b>		1U 24 port Cable manager with all accessories
<b>10G) Fiber Optics outdoor 24 Core single mode with both side compatible interfaces</b>		
<b>7</b>		Supplying/Testing/ tagging /connection from datacenter to all blocks approximate range 1300 meters laying in already laid conduits Splicing if required
<b>(10G) Fiber Optics indoor 12 Core single mode per (meter) both side compatible interfaces</b>		
<b>8</b>		Supplying/Testing/ tagging /connection from all blocks ground floors to other floors approximate range 600 meters laying in already laid conduits Splicing if required
<b>SFP-10G-LR Compatible SFP Transceiver Module</b>		
<b>9</b>		Module supports a link length of 10 kilometers on standard Single-Mode Fiber Transmit power (dBm) -8.2 to +0.5 Compatible with below required network devices
<b>Fiber Duplex patch cable SC-LC,3 meter Single mode</b>		
<b>10</b>		Clad Diameter 125 micron Side A - Connector 1 LC DUPLEX (MALE)

		Side B - Connector 1 SC DUPLEX (MALE)
<b>Indoor ground to other floors optical fiber pulling/Laying testing</b>		
<b>11</b>		
<b>Outdoor optical fiber pulling/Laying testing for datacenter to blocks</b>		
<b>12</b>		
<b>Fiber optic Splicing</b>		
<b>13</b>		240 approximately
<b>Fiber OFDF</b>		
<b>14</b>		Drawer Style Fiber OFDF (12 Ports) (10G) with cabinet and installation/interface Testing
<b>Pigtails</b>		
<b>15</b>		Compatible and to be used in mentioned OFDF
<b>Rack mountable Fiber OFDF (48 Ports)</b>		
<b>16</b>		Rack mountable Fiber OFDF (48 Ports) (10G) with installation/interface Testing
<b>Core Switch Modular, Supervisor engine, 48 PORT 1G RJ-45, 48 PORT 10G(SFP)</b>		
<b>(Should be enabled including license)</b>		
<b>17</b>		<p>Switching capacity atleast 1.92 Tbits/s Supervisors, power modules, CMUs, fans trays. AP access control, AP region management, and AP profile management, Radio profile management, uniform static configuration, and centralized dynamic management. Basic WLAN services, QoS, security, and user management Unified user management, 802.1x, MAC address, and Portal authentication Traffic- and time-based accounting User authorization based on user groups, domains, and time ranges</p> <p>802.1x authentication and portal authentication MACSec, NAC, RADIUS and HWTACACS authentication Different user levels for commands, preventing unauthorized users from using certain commands Defense against DoS attacks, TCP SYN Flood attacks, UDP Flood attacks, broadcast storms, and heavy traffic attacks, Ping and traceroute, RMON Service Chain Secure Boot (need to use MPU that supports Secure Boot),includes Firewall, NAT, NetStream, IPSec, Load balancing, IPS Zero-Touch Provisioning, Console and SSH terminals Network management protocols, such as SNMP v1/v2c/v3 File uploading and downloading using FTP and TFTP BootROM upgrade and remote upgrade Hot patches User operation logs, Open Programmability System (OPS)</p>
<b>Access Layer switch Gigabit POE network switch 48 ports GigE8x10G SFP LAN base with installation on location(Should be enabled including license)</b>		
<b>18</b>		<p>48x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports (POE+) Switching Capacity ≥ 170 Gbps Forwarding capacity ≥ 130 Mpps Power 1+1 AC All ports should support 802.3at (30W per port) The product/Equipment Should not be EOL/EOS for 5 Years (Documentary Proof Required) Includes installation</p>
<b>Access Layer switch Gigabit POE network switch 24 ports GigE2x10G SFP LAN base (Should be enabled including license)</b>		

<b>19</b>		<p>24x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports (POE+)  Switching Capacity ≥ 120 Gbps  Forwarding capacity ≥ 95 Mpps  Power 1+1 AC  All ports should support 802.3at (30W per port)  The product/Equipment Should not be EOL/EOS for 5 Years  (Documentary Proof Required)  Includes installation</p>
<p><b>Router, throughput 80 Gbps and the forwarding performance is over 100Mpps 6 Ports of 10 GE (GE Optical and GE electrical) with installation on location(Should be enabled including license)</b></p>		
<b>20</b>		<p>ACL, firewall, 802.1x authentication, MAC address authentication, Web Authentication, AAA authentication, RADIUS authentication, HWTACACS authentication, broadcast storm suppression, ARP security, ICMP attack defense, URPF, IP Source Guard, DHCP snooping, CPCAR, blacklist, IP source tracing  web-based GUI, GTL, SNMP (v1/v2c/v3),NTP, CWMP, Auto-Config, deployment using USB disk, CLI, SSH (v1/v2)</p>
<p><b>Next Generation Integrated firewall with IPS, data leakage prevention, threat Management &amp; URL filtering(Should be enabled including license)</b></p>		
<b>21</b>		<p>Provides firewall, VPN, intrusion prevention, antivirus, data leak prevention, bandwidth management, anti-DDoS, URL filtering, and anti-spam functions  Identifies common applications, supports application-specific access control, and combines application identification with intrusion prevention, antivirus, and data filtering to improve detection performance and accuracy,  Manages per-user and per-IP bandwidth in addition to identifying service applications to prioritize mission-critical services and users through methods such as peak bandwidth and committed bandwidth, Policy-Based Routing (PBR), and application forwarding priority adjustment, IP address-based NAT (NAT No-PAT, NAT, Easy IP, Smart NAT, Triplet NAT, and Transparent NAT), destination IP address-based NAT (NAT Server and Destination NAT) and Bidirectional NAT (Source NAT+NAT Server and Intrazone NAT+NAT Server).</p>
<p><b>Network Management Software</b></p>		
<b>22</b>		<p>Based on advanced Web 2.0 architecture, works with the NQA function, Network Traffic Analyzer (NTA), One-click fault diagnosis, Intelligent interaction with report, SLA, and performance monitoring, Comprehensive management for wireless devices such as ACs, Fit APs, and mobile terminals, Identification, query, and blacklisting of unauthorized access devices  Visual management of the WLAN device deployment region and location, network signal coverage scope, and network status</p>
<p><b>42 u RACK</b></p>		
<b>23</b>		<p>42 u RACK with DPI 63 AMP Universal PDU 12 output with compatible 12 cables</p>

		Branded
<b>Switch cabinet</b>		
<u>24</u>		Cabinets for switches each floor compatible with demanded switches and allow UPS to be installed within the cabinet.
<b>Rack mounted Server</b>		
<u>25</u>		<b>Rack mounted Server</b> 2 x Intel® Xeon® processor E5-2600 v4 Cores 8, 16 threads, 2.10 GHz, bus speed 8, Cache 20 MB, Bus Speed 8 GT/s,DVD Ethernet 4 x 1GbE , DDR 4 Dimm 64 GB MEMORY, 4 X 300Gb solid state SAS HARD DRIVES. Qlogic 2662, Dual Port 16GB Fibre Channel HBA, 2x PCIe 3.0 low-profile adapters (back) Intel H-series (OmniPath) internal controller: PERC H330, H730, H730P and H810, redundant power supply
<b>Intelligent fire alarm and suppression</b>		
<u>26</u>		Intelligent fire alarm and suppression Fire Suppression system for Data Center Containing highest-performing fire suppression container valve with Emergency Power Shutdown Management System, with controlled system & accessories installed with sms Fire alerts.(supply and installation)
<b>RFID/Bio metric access system</b>		
<u>27</u>		RFID/Bio metric access system with controlled data center door locks and installation
<b>Electrical and other work in server Room</b>		
<u>28</u>		Electrical/civil work at server room using industrial sockets (male/female) including standard raised floors, fall ceiling with compatible LED lights, installation of Separate cable trays(power and Data) under raised floor and compatible rack mounted cooling system to maintain appropriate temperature for servers.(6 power sources with industrial socket.
<b>UPS</b>		
<u>29</u>		UPS 1 KVA with inbuilt battery bank for above mentioned floor switches and installation on the location within switch rack
<b>Desktop &amp; laptop computer</b>		
<u>30</u>		Desktop computer: Intel Core i5 with latest available generation 8 GB RAM, Hard 1TB , wifi, LED 19" and other accessories Warranty: 3 years
<b>Desktop Printers LASER</b>		
<u>31</u>		Desktop Printers LASER



		Warranty: 3 years
<b>Photocopier machine</b>		
<b>32</b>		Copy Speed 35-45 CPM, Memory 256 MB Resolution 1200 x 1200 dpi Warranty: 3 years
<b>Scanner feeder</b>		
<b>33</b>	)	Scanning <b>Plain Paper, Postcard, Business Card, Scan resolution</b> 100 x100dpi / 150 x 150dpi / 200 x 200dpi / 240 x 240dpi / 300 x 300dpi / 400 x 400dpi / 600 x 600dpi / 1200 x 1200dpi / 2400 x2400dpi Speed A4 / LTR, Portrait, 200dpi: Black and White: 20ppm (simplex) / 36ipm (duplex) Grayscale: 20ppm (simplex) / 36ipm (duplex) Colour: 10ppm (simplex) / 18ipm (duplex)
<b>Telephone sets</b>		
<b>34</b>		Telephone sets corded single line operation wall mountable without screen with normal dialler
<b>Multimedia Projectors</b>		
<b>35</b>		Multimedia Projectors: 3000-4500 Lumens (LCD/DLP) , Lamp Life(Full Power): 3,500 hours, Lamp Type: UHP 240w, Native Resolution 1280x800, Aspect Ratio: 16:10 (WXGA), Throw Dist (m): 1.9 - 2.2, Zoom Lens, with 6*6/6*8 wall Mount Screen and secure ceiling mounting kits and installation on the location
<b>RFID Cards Printer</b>		
<b>36</b>		<u>Interface typr</u> USB <u>Color print speed</u> 120 cards per color Supporting software
<b>Customized Attendance software for RFID</b>		
<b>37</b>		Customized Attendance software for RFID, Integrated with active directory
<b>RFID and biometric Based Access Control</b>		
<b>38</b>		RFID and biometric Based Access Control & Attendance System Units with installation on the location

### **Any inferior Specifications will be rejected**

Multiple options are not allowed; vendor should Quote only one option. Quoting multiple Option will lead to disqualification.

**Financial Proposal (Bid Format) with 3 year warranty****Annexure D**

Date \_\_\_\_\_

Company Name \_\_\_\_\_

<b>Required Specification</b>	<b>Qty</b>	<b>Quoted Specification</b>	<b>Unit price including GST</b>	<b>Total Price including GST</b>
UTP Cable CAT-VI 305 meter Roll	10			
1 Meter CAT-VI Patch Cord	885			
3 Meter CAT-VI Patch Cord	885			
24 Port CAT-VI Patch Panel	2			
cable tester	1			
Cable Manager	4			
(10G) Fiber Optics outdoor 24 Core single mode per (meter) with both side compatible interfaces	1300m Approximately			
(10G) Fiber Optics indoor 12 Core single mode per (meter) both side compatible interfaces includes	600m Approximately			
SFP-10G-LR Compatible SFP Transceiver Module compatible with below mentioned network switches	32			
Fiber Duplex patch cable SC-LC,3 meter Single mode	32			
Indoor (ground to other floors) Fiber Optic pulling/laying testing	600m Approximately			
Outdoor Fiber Optic laying/Testing for datacenter to block connectivity	1300m Approximately			
Fiber optic splicing	240 Approximately			
Drawer Style Fiber OFDF (12 Ports) (10G) with cabinet and installation/interface Testing	16			
Pigtails	150			
Rack mountable Fiber OFDF (48 Ports) (10G) with	1			

installation/interface Testing				
Core Switch Modular, Supervisor engine, 48 PORT 1G RJ-45, 48 PORT 10G(SFP) (Should be enabled including license)	1			
Access Layer switch Gigabit POE network switch 48 ports GigE2x10G SFP LAN base with installation on location (Should be enabled including license)	17			
Access Layer switch Gigabit POE network switch 24 ports GigE4x10G SFP LAN base (Should be enabled including license)	13			
Router, throughput 80 Gbps and the forwarding performance is over 100Mpps 6 Ports of 10 GE (GE Optical and GE electrical) with installation on location (Should be enabled including license)	1			
Next Generation Integrated firewall with IPS, data leakage prevention, threat Management & URL filtering (Should be enabled including license)	1			
Network Management Software	1			
42 u RACK with DPI 63 AMP Universal PDU 12 output with compatible 12 cables	1			
Cabinets for switches each floor	17			
rack mounted Server (2 x Intel® Xeon® processor E5-2600 v4 Cores 8), DDR 4 Dimm 64 GB MEMORY, 4 X 300Gb solid state SAS HARD DRIVES	4			
Intelligent fire alarm and suppression with controlled system & accessories installed with sms Fire alerts.(supply and installation)	1			
RFID/Bio metric access system with data center door locks and installation	1			

Electrical work at Data center room using industrial sockets (male/female) including raised floors, fall ceiling with compatible lights, installation of Separate cable trays(power and Data) and compatible cooling system.(6 power sources with industrial socket (as per actual).	1			
UPS 1 KVA with battery bank for switches and installation on the location	17	for switches		
Desktop computer: Intel Core i5 with latest available generation 8 GB RAM, Hard 1TB , wifi, LED 19" and other accessories Warranty: 3 years	200			
Desktop Printers LASER Warranty: 3 years	19			
Photocopier machine Copy Speed 35-45 CPM, Memory 256 MB Resolution 1200 x 1200 dpi Warranty: 3 years	4			
Scanner feeder	9			
Telephone sets with normal dialler	150			
Multimedia Projectors: 3000-4500 Lumens (LCD/DLP) , Lamp Life(Full Power): 3,500 hours, Lamp Type: UHP 240w, Native Resolution 1280x800, Aspect Ratio: 16:10 (WXGA), Throw Dist (m): 1.9 - 2.2, Zoom Lens, with 6*6/6*8 wall Mount Screen and secure ceiling mounting kits and installation on the location	65			
RFID Cards Printer	1			

Customized Attendance software for RFID		1		
RFID and biometric Based Access Control & Attendance System Units with installation on the location		8		
Total				

Amount in words:  
(Rupees.....)

**Any Inferior Specification will be rejected**

**Financial Proposal not accompanied with bid security will be rejected without any right of appeal**

**Authorized signature of Bidder and sealed stamp**

**Draft Agreement: IT equipment Datacenter works and cabling for new campus building situated at mozan morhian kuri road Islamabad**

**AGREEMENT**

**(To be executed on Rs.100/- Judicial paper)**

THIS Supply & Service Agreement (the "Agreement") is made on this day \_\_\_\_\_ 2019;

By and Between

**Federal Urdu University of Arts science and Technology G7/1 Suharwardi Road near zero point Islamabad**

(hereinafter referred to as "**Client**" which expression shall where the context admits

include its administrators and assigns) of the One Part

And

M/s \_\_\_\_\_

through Mr \_\_\_\_\_

bearing CNIC \_\_\_\_\_

having place of business at \_\_\_\_\_

(hereinafter referred to as "**the Contractor,**" which expression shall where the context so allows include his/its successors-in-interest, executors, administrators, heirs and permitted assigns) of the **Other Part** (If when and where applicable the Party of the One Part and Party of Other Part shall hereinafter be collectively referred to as 'Parties' and individually as 'Party' as the context of this Agreement requires).

WHEREAS;

- a. Client is desirous of procuring & installation of **IT equipment Datacenter works and Optical fiber cabling for new campus building situated at moza morhian kuri road Islamabad** have them **delivered/supplied and installed and subsequently maintained** by the Supplier in accordance with the terms of this Agreement;
- b. The Supplier is a \_\_\_\_\_ (*details of incorporation*) being engaged in the business of supplying electrical, electronic equipment, and has agreed to **supply, deliver, install/configure and thereafter provide maintenance services (hereinafter referred as Services)** of the **IT equipment Datacenter works and Optical fiber cabling for new campus building situated at mozan morhian kuri road Islamabad** on the terms and subject to the conditions as set forth hereunder.
- c. The Supplier represents that;
  - i. It has the relevant expertise and holds valid and subsisting licenses/permissions, authorizations/approvals required from the Government of Pakistan and;
  - ii. It has the requisite expertise and resources to provide top quality of requisite Services of *IT equipment Datacenter works and Optical fiber*

*cabling* as per Bill of Quantity (“BoQ”) to the Client in accordance with highest industry standards and satisfaction of the Client. The Supplier undertakes that the Services shall be provided only through the staff/labour/workforce that has the requisite expertise and experience in this regard.

- d. Upon the basis of the representations and warranties of the Supplier contained herein, the Client wishes to appoint the Contractor to Supply and provide the Services *at FUUAST **new campus building situated at moza morhian kuri road Islamabad** premises under this Agreement; NOW THEREFORE*, for the consideration provided herein the representation and warranties, covenants, conditions and promises contained herein below and intending to be legally bound, the Client and Contractor hereby agree as follows:

### **1. Scope of Agreement**

Subject to the terms and conditions of this Agreement the Supplier agrees to provide Services *as per requirements prescribed under **Bidding Documents and its attached Annexure-A, B, C, D;***

### **2. Agreement Documents**

2.1 The following documents shall be deemed to form, and be read and construed as, part of this Agreement:

- a. Invitation to bid
- b. Bidding documents along with its Annexures
- c. Bill of Quantity (BoQ)
- d. Special Stipulations (if any).
- e. Addenda and Corrigenda, if any, issue by the Clients and duly accepted by the Contractor at the signing of the Contract.
- f. Bid security/ Tender Guarantee
- g. Form of Agreement/ Contract Agreement
- h. Clients order to commence the work.
- i. Limit of Bid security.
- j. Any Correspondence by the Clients/Supplier mutually accepted by the Client and the Contractor.

### **3. Term**

3.1 Upon signing of this Agreement the Supplier shall be obligated to start the work on specified location by Client within \_\_\_\_\_ and complete it within projected time \_\_\_\_\_ calendar days.

3.2 However, in case of any unavoidable/unforeseen delay (i.e Force Majeure) incurred either by the Contractor or the Client, necessary timeline extension would be agreed mutually between both parties, however, it has to be communicated to each other during the occurrence of Force Majeure as per clause 11.

### **4. Termination**

4.1 Notwithstanding anything herein contained the Client shall be exclusively entitled to terminate this Agreement

- a. without advance notice, in case the Supplier is in breach of any of the terms of this Agreement, or in case the Client is not satisfied with the Services or quality of IT equipment supply/ installation, Datacenter works and Optical fiber supply/cabling (whichever is applicable).
- b. Without cause, by giving three (03) days advance written notice to the Supplier.
- c. If the *Services* do not meet the specifications, terms & conditions mentioned in the **Annexure-A, B, C, D of Bidding documents**.

4.2 In case of such termination, the Supplier shall not be paid for any Services actually rendered up to the date of termination and any advance payment by the Client in respect of the *Services* not performed or in respect of period falling after the effective date of termination shall be refunded by the Supplier, to the Client. The Client, shall not, because of expiration or termination of this Agreement, be liable to the Supplier for any compensation, reimbursement, or damages because of the loss or prospective profit or because of expenditures or commitments incurred in connection with the business of the Supplier.

## **5. Deliverables**

5.1 The work should be of best quality and as per technical specifications mentioned in the Annexure C and D of Bidding documents.

## **6. Charges**

6.1 All amounts paid to the Supplier as per above clauses are inclusive of all taxes, levies, duties, and any other deduction related thereto etc. and are acknowledged by the Supplier to be adequate and sufficient consideration for the rendition of Services.

6.2 All payments to be made by the Client to the Supplier shall be subject to such deductions and withholding as are required by prevailing laws which shall be to the account of the Supplier.

## **7. Invoice**

7.1 The Supplier shall submit its Invoice in accordance with the rates/charges specified in **Annexure-D** of bidding document. .

7.2 The Supplier shall be solely responsible for all payments, liabilities and all other obligations of whatsoever nature pertaining to its staff/workers who shall be deputed for the Services at the Client's Building.

7.3 The Supplier undertakes to fully indemnify and hold harmless the Client against any claims, losses, damages, or expenses in relation to injury or death to any persons or loss or damage to property arising out of the performance of supply and installation Services.

7.4 The Supplier and its staff /employees shall be bound to obey safety rules and other regulations prescribed by the Client on its premises. Any losses/damages suffered by the Client due to omission on the part of the Supplier, its staff/employees to abide by this condition shall be the sole liability of the Supplier and it may result in termination of the Agreement by the Client at its sole discretion.

## **8. Confidentiality**

The Supplier, its/his staff, workers, employees, personnel, agents or any other person acting for him and/or on his behalf shall hold in confidence and



complete confidentiality and all documents and other information supplied to the Supplier and his Employees personnel, agents etc. by or behalf of the Client or which otherwise came/come into its/his/their knowledge and relates to the Client or any of its project.

### **9. Indemnification**

The Supplier shall indemnify and hold harmless the Client, its Chairman, Directors, Member Offices, Employees and other Personnel against any and all claims, damages, liabilities, losses, and expenses, whether direct or indirect, or personal injury or death to persons or damage to property arising out of (i) any negligence or intentional act or omission by the Supplier or his employees, personal, agents, etc. in connection with the Agreement, or (ii) arising out of or in connection with the performance of his obligations under this Agreement.

### **10. Resolution of Disputes**

10.1 All disputes arising under this Agreement, whether during the term of this Agreement or after the termination or expiry of this Agreement shall be referred to (i) Purchase Committee-I (PC-I) of the Client for amicable settlement /resolution of the dispute at first stage.

(ii) In case of failure in settlement, at the second stage the case will be referred to the Authority of the Client (Administration). The decision of the Authority to settle the issue amicably will be final and will not be challenged at any forum including court of Law. (iii) In the event of failure of amicable settlement of dispute as above, either party may refer the dispute to Arbitration under the provision of Arbitration Act, 1940 and the rules issued thereunder, at Islamabad, Pakistan.

10.2 No All variations amendments and in or modification to the terms of this Agreement shall be made, except in writing and shall be binding only if duly agreed and signed by both the parties or their duly authorized representatives.

### **11. Force Majeure Event**

11.1 Neither Party shall be held responsible for any loss or damage or failure to perform all or any of its obligations hereunder resulting from a Force Majeure event.

11.2 For the purpose of this Agreement a “Force Majeure Event” shall mean any cause(s) which render(s) a Party wholly or partly unable to perform its obligations under this Agreement and which are neither reasonably within the control of such Party nor the result of the fault or negligence of such Party, and which occur despite all reasonable attempts to avoid, mitigate or remedy, and shall include acts of God, war, riots, civil insurrections, cyclones, hurricanes, floods, fires, explosions, earthquakes, lightning, storms, chemical contamination, epidemics or plagues, acts or campaigns of terrorism or sabotage, blockades or acts of Governmental Authority after the date of this Agreement.

11.3 The Party initially affected by a Force Majeure shall promptly but not later than seven (07) days following the Force Majeure event notify the other of the estimated extent and duration of its inability to perform or delay in performing its obligations (“**Force Majeure Notification**”). Failure to notify within the afore-said period shall disentitle the Party suffering the Force Majeure from

being excused for non-performance for the period for which the delay in notification persists.

11.4 Upon cessation of the effects of the Force Majeure the Party initially affected by a Force Majeure shall promptly notify the other of such cessation.

**12. Governing Law**

The provisions of this Agreement and the rights and obligations hereunder shall be governed by and construed in accordance with the prevailing laws of Pakistan.

**13. Waiver**

A party's failure to exercise or delay in exercising any right, power or privilege under this Agreement shall not operate as a waiver; nor shall any single or partial exercise of any right, power or privilege preclude any other or further exercise thereof.

**14. Severability**

The invalidity or unenforceability of any provisions of this Agreement shall not affect the validity or enforceability of any other provision of this Agreement, which shall remain in full force and effect.

**15. Amendment**

All addition amendments and variations to this agreement shall be binding only if in writing and signed by the Parties or their duly authorized representatives.

**16. Assignment**

This Agreement may not be assigned by either party to other than by mutual agreement between the Parties in writing.

**17. Annexure**

**Annexures A, B, C, D** pertaining to i. Financial Proposal and ii. Technical Evaluation Criteria/Company Profile iii. Advertisement, iv. Tender/Bidding Documents V. Special stipulations (if any) vi. Addendum/Corrigendum (if any). These **Annexures** along with all documents forms an integral part of this Agreement and has to be read and construed as such this Agreement.

IN WITNESS WHEREOF, the parties hereto set their hands the day, month and year first above written.

**For and Behalf of Client.**

By : \_\_\_\_\_

Name: \_\_\_\_\_

Title : \_\_\_\_\_

Signature : \_\_\_\_\_

Date : \_\_\_\_\_

**For and on Behalf of: Supplier**

By: \_\_\_\_\_

Name : \_\_\_\_\_

Title : \_\_\_\_\_

Signature : \_\_\_\_\_

Date : \_\_\_\_\_

**Witnesses**

1. \_\_\_\_\_

Name \_\_\_\_\_

CNIC \_\_\_\_\_

2. \_\_\_\_\_

Name \_\_\_\_\_

CNIC \_\_\_\_\_