UNIVERSITY OF ENGINEERING & TECHNOLOGY, LAHORE

REQUEST FOR PROPOSALS

For

Campus Management System and Safe Campus (Storage, Server, Network Switches, Data Rack, Rack Mount Console, VM Ware, Laptop, 2MP Bullet Camera, 8MP PTZ Camera, NVR, POE Switch, NAS DiskStation, 55-inch LCD and eDaftar), Items Lot Wise turnkey basis.

Last Date for Submission:	19 June 2023 at 10:00 AM
Bid Opening Date:	19 June 2023 at 10:30 AM

UNIVERSITY OF ENGINEERING & TECHNOLOGY, LAHORE

TENDER DOCUMENT

Campus Management System and Safe Campus (Storage, Server, Network Switches, Data Rack, Rack Mount Console, VM Ware, Laptop, 2MP Bullet Camera, 8MP PTZ Camera, NVR, POE Switch, NAS DiskStation, 55-inch LCD and eDaftar), Items Lot Wise turnkey basis

TERMS AND CONDITIONS

For Procurement of "Campus Management System and Safe Campus (Storage, Server, Network Switches, Data Rack, Rack Mount Console, VM Ware, Laptop, 2MP Bullet Camera, 8MP PTZ Camera, NVR, POE Switch, NAS DiskStation, 55-inch LCD and eDaftar)" for University of Engineering & Technology Lahore.

COMPUTER CELL, RESEARCH CENTER
UNIVERSITY OF ENGINEERING AND TECHNOLOGY LAHORE.
PHONE: **(042) - 99029101**

REQUEST FOR PROPOSAL-2023

TENDER PRICE: **Rs. 2,000/-**

Issue date: **19/ May / 2023**

Last date of submission: **19 / June / 2023 till 10:00 AM**

FOR OFFICE USE ONLY

Serial No._____

Sold to: - M/S_____

Date of Sale_____ **Bank Challan No.** _____**Date**_____

COMPUTER CELL, RESEARCH CENTER
UNIVERSITY OF ENGINEERING AND TECHNOLOGY LAHORE.
PHONE: **(042) - 99029101**

OVERVIEW

University of Engineering and Technology (UET), Lahore intends to purchase the specified "Campus Management System and Safe Campus (Storage, Server, Network Switches, Data Rack, Rack Mount Console, VM Ware, Laptop, 2MP Bullet Camera, 8MP PTZ Camera, NVR, POE Switch, NAS DiskStation, 55-inch LCD and eDaftar), Items Lot Wise turnkey basis". The Firms/suppliers will be responsible for delivery and installation of the equipment.

1. **Proposal Instructions (for BOQs on FOR Basis)**

    1.1   Single stage/two envelope bidding procedure shall be applied in response to the RFP (Request for proposal). The envelopes shall be marked as "TECHNICAL PROPOSAL" and "FINANCIAL PROPOSAL" separately plus "legible documents". The financial proposal of bids found technically nonresponsive shall be returned unopened to the respective bidder. Technically responsive bidders shall be informed, and their financial bids shall be opened in the next Central Procurement Committee (CPC) meeting after informing the technically responsive bidders.

    1.2   Responding organizations shall deliver sealed proposal of the "FINANCIAL & TECHNICAL PROPOSALS" before or on **June 19, 2023,** at **10:00 AM.**

    1.3   Proposals will not be accepted after the due date & time; proposals shall be delivered to the address given below before time. The TECHNICAL PROPOSALS shall be opened on the same day **June 19, 2023,** at **10:30 AM** in the presence of bidders or the representatives of the responding organizations.

    1.4   Bidders are advised not to quote different options for each item (only one option is to be quoted).

    1.5   Price should be mentioned on FOR basis and in Pak Rupee.

    1.6   All BOQs submitted by the bidder must use the numbers and labels used in this Request for proposal.

    1.7   The original Request for Proposal documents duly signed and officially sealed by the bidder must be submitted in whole with the proposals. Any conditional, ambiguous, incomplete, supplementary, or revised offer after the opening of tender shall not be entertained.

    1.8   Any overwriting/crossing, etc. appearing in the offer may be properly signed by the person signing the tender. All pages of the tender must be properly signed & stamped. Offer with any overwriting/use of Blanco shall not be accepted in any circumstances.

1.9 Warranty for Server, Network Switches, Data Rack, Rack Mount Console, VM Ware, Laptop, 2MP Bullet Camera, 8MP PTZ Camera, NVR, POE Switch, NAS DiskStation and 55-inch LCD as approved by the manufacturers/suppliers, but not less than one-year replacement of Parts, Labor & Service on site must be covered for after sales and services (labor and parts) for a period of one year from the date of delivery.

1.10 A call at deposit equal to 2% (Rs. 0.22932 M) of estimated cost of Lot: 01 (Rs. 11.466 M), A call at deposit equal to 2% (Rs. 0.31 M) of estimated cost of Lot: 02 (Rs. 15.500 M), A call at deposit equal to 2% (Rs. 0.422 M) of estimated cost of Lot: 03 (Rs. 21.1 M) should accompany the Tender as **Earnest Money** drawn in favor of **The Treasurer, UET, Lahore.** Tender shall not be considered without Earnest Money. Bank guarantee will not be accepted.

1.11 10% of the contract amount shall be deducted as security at the time of the bill process. The deducted amount as security will be returned after successful completion of Defect Liability / Warranty Period, after repairing the defects in the equipment / replacement found during the warranty period.

1.12 The Successful Bidder will deposit blank stamp papers of value of 0.25% of the total offer / contract amount, purchased in the name of **Treasurer University of Engineering & Technology (UET), Lahore.**

1.13 The quantity of an order may vary depending on the quoted price and the allocated funds.

1.14 The decision of the committee will be binding on all concerned and will in no case be challenged on any forum.

1.15 The **TECHNICAL COMMITTEE** reserves the right to modify the conditions / specifications of the Tender Document with written intimation to all the participants those who have purchased the Tender Documents.

1.16 Delivery period for import items will be **10 – 12 weeks** from the date of issuance of purchase/supply order.

1.17 Delivery & Installation (wherever mentioned) be completed according to the agreed upon schedule of works and time.

1.18 In case the tenderer fails to execute the contract strictly in accordance with the terms and conditions laid down in the contract, the Security Deposit shall be forfeited.

1.19 The **TECHNICAL COMMITTEE** will get the equipments inspected at UET Lahore and will have the right to reject the equipment if not found according to the stated specifications.

1.20 UET Lahore reserves the right to claim compensation for the losses caused by the delay in the delivery of equipment by deducting 1% of the total amount payable to the supplier/contractor as penalty.

1.21 It is the sole responsibility of the vendor to comply with local, national, and international laws.

1.22 In case any supply / 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 shall replace the same free of charges.

1.23 All the proposals submitted will become the property of the University.

2. Evaluation Criteria

All bids shall be evaluated on technical and financial merit as per **clause 1.1.**
Technical evaluation process may include, but not limited to the consideration of the following with respect to the functional requirements given ahead:

2.1 Technical specifications of proposed equipment's

2.2 The Company Should not be Blacklisted/ De Registered/in Litigation/debarred by any Government Department /Public Sector / Private Sector or any other Agency.

2.3 Company profile
   i. Age of the company
   ii. Financial strength of the vendor
   iii. Authorization Certificate document from the principal / manufacturer Authorization letter.
   iv. HR strength/Manpower with the vendor
   v. Technical support/after sale service facilities
   vi. Vendors are not allowed to bid in partial, participate for complete Lot.
   vii. Vendor will be responsible for supplying, installing, and commissioning on Lot wise Turnkey Basis.
   viii. Backup support plan
   ix. Contact information of the firm.

2.4 Evaluation criteria are as follows
   I. Should include one year OEM warranty.
   II. Principal Manufacturer must have at least one registered office in Pakistan.
   III. Principal Manufacturer must have after support sales centres in Karachi, Islamabad, and Lahore.
   IV. Principal Manufacturer must have presence in Pakistan from last 10 years.
   V. Bidder must be partner of Principal Manufacturer from last 3 years or more.
   VI. Bidder must provide "Manufacturer Authorization Letter" in favour of UET mentioning tender number, from Principal Manufacturer to participate in the tender.
   VII. Bidder must have a registered/incorporated company/firm in Pakistan with relevant business experience for last three years at least.

VIII.   Bidder must be registered with Tax Authorities as per prevailing tax rules (Only those firms/Companies which are validly registered with sales tax and income tax departments and having sound financial strengths can participate.

IX.   Bidder must have valid Registration of General Sales Tax (GST), National Tax Number (NTN) & Professional Tax Certificate and must be included in Active Tax Payer List.

X.   Bidder must have the required relevant technical qualified personnel and enough strength to fulfil the requirement of assignment and attached at least 3 engineers' certificates of the quoted brand.

XI.   The Successful bidder shall deliver, deploy, and install the ordered equipment within Ten (14) to Fourteen (18) weeks after approval of Bank Contract/LC from State Bank of Pakistan.

XII.   Bidder must provide 1 years Principal Manufacturer's warranty.

XIII.   Bidder must ensure that supplied equipment and its warranty will be registered with Principal Manufacturer in name of UET, Lahore.

XIV.   The items being ordered should be brand new and according to the order specifications of the current production and covered under normal warranty/guarantee etc. as mentioned in the proposal. Brochures mentioned and product details must be attached.

XV.   Principal must have Post Sales Team in Pakistan

XVI.   A Manufacturer Authorization Letter (MAL) from Principal is a must.

XVII.   Bidder must quote for complete LOT, partial quote will not be entertained, equipment must be Brand new obtained through proper channel.

XVIII.   Bidder must not be blacklisted by any of Provincial or Federal Government Department, Agency, Organization or autonomous body or Private Sector Organization anywhere in Pakistan (Submission of undertaking on legal stamp paper is mandatory) for tender.

XIX.   The principal should have a warehouse in Lahore.

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

    i. Quoted price

3.   Required Information

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

    i. The Name and Address

    ii. Profile of company (Including Financial Profile)

iii. List of Pervious/Current customer of related equipments, with contact person and telephone/fax#

iv. Detailed product information/brochures

v. Detailed product warranty/guarantee information

vi. Attested copy of National Tax Registration Certificate

vii. Attested copy of Sales Tax Registration Certificate

viii. Copy of the valid professional tax certificate

ix. Bank letter of financial standing duly signed by the relevant officer of the bank clearly mentioning name and designation.

x. An Affidavit on Rs.100/- Stamp paper that currently they are not blacklisted or debarred by any Government/Semi Government department to participate in bidding and to supply equipment. Failure to submit such an affidavit may lead to disqualification.

xi. Any additional information the bidder may like to furnish e.g. repair/maintenance workshop owned by supplier and other concerned facility

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

i. Detailed equipment specifications, proposed quantities duly filled on the BOQ attached with this document.

ii. Detailed information which includes the delivery of equipment mentioned in the RFP in accordance with clause **1.16** of the tender.

iii. Terms and Conditions

iv. Validity period of the quoted price, i.e. <u>60 days</u>

v. Educational discounts if available/applied to the quoted price

4. Terms and Conditions (<u>FOR Basis</u>)

4.1   All prices should be in PAK Rupees inclusive of all applied Govt. taxes.

4.2   All prices should be valid for at least 60 days. Withdrawal or any modification of the original offer within the validity period shall   entitle the University to forfeit the earnest money in favour of the University and/or putting a ban/blacklisting on the future inquires or taking any other suitable action against the bidder.

4.3   <u>Delivery of the items shall be free of charge at UET Main during office hours with a copy of delivery challan.</u>

4.4   The items being ordered should be brand new and according to the order specifications of the current production and covered under normal warranty/guarantee etc. as mentioned in the proposal. Brochures mentioned and product details must be attached.

4.5   All equipment should have lifetime license, UET will not pay any license fees after installation for all equipment, components, and software, where mentioned otherwise

4.6   The bidder is fully responsible for design, assembly, installation, networking, and testing of the hardware

5. Payment Terms

1. 80% upon hardware delivery and 20% after successful completion of the LOT.

Any query regarding this proposal should be directed to the contact no's. Listed below.

COMPUTER CELL, RESEARCH CENTER
UNIVERSITY OF ENGINEERING AND TECHNOLOGY LAHORE.

- **042-99029101, 99250226**

SUPPLIERS DATA FORM

1. Name of company _____

   Address (Local Office) _____

   _____ Telephone _____

   Head Office _____

2. Number of years in relevant business (in Pakistan) _____

3. Major clients: (May attach a separate sheet, if necessary) _____

4. Is repair facility available at local office,   YES ☐   NO ☐

   If yes, please provide the level of repair, maintenance and back-up facilities available at local office:
   _____
   (Attach separate sheet, if necessary)

5. Biodata of the technical staff available in the local office to provide after-sale service: (Attach details on separate sheet) if necessary

6. Contact person for after-sale and service.

   Name: _____

   Designation: _____

   Phone No: _____ Mobile _____Fax _____

   Email_____

Bid Form

Date: _____

Tender Ref: _____

To: [name and address of Purchaser]

Gentlemen and/or Ladies:

Having examined the bidding documents including Addenda Nos. *[insert numbers],* the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply and deliver *[description of goods and services]* in conformity with the said bidding documents for the sum of *[total bid amount in words and figures]* or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Bid.

We undertake, if our Bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements.

If our Bid is accepted, we hereby agree that our Bid Security as being provided herewith this "Bid Form" will remain with the Purchaser according to Clause 1.18 of Instructions to Bidders.

We also agree to abide by this Bid for a period of [number] days from the date fixed for Bid opening under Clause 4.2 of the Instructions to Bidders, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us.
We understand that you are not bound to accept the lowest or any bid you may receive.

Dated this _____ day of _____ 20_____.

[Signature]   [In the capacity of]

Duly authorized to sign Bid for and on behalf of

Contract Form

THIS AGREEMENT made the [ ]**th day of [ ] 2023** between **Computer Cell, Research Center UET Lahore Pakistan** (here in after called "the Purchaser") of the one part and [] (hereinafter called "the Supplier") of the other part:

WHEREAS the Purchaser invited bids for certain Goods viz., Desktop Computers, Rack Mounted Branded Server with LED Display for GIS Lab, and Multimedia Projector has accepted a bid by the Supplier for the supply of those Goods and services in the sum of **Rupees [ ]** (hereinafter called "the Contract Price").

NOW THIS AGREEMENT WITNESSES AS FOLLOWS:

1.   In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.

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

   (a)   The Bid Form and the Price Schedule submitted by the Bidder.

   (b)   The Schedule of Requirements.

   (c)   The Technical Specification with Drawings (if any).

   (d)   The General Conditions of Contract.

   (e)   The Special Conditions of Contract.

   (f)   The Purchaser's Notification of Award; and

   (g)   Bid Security (provided with the Bid Form)

3.   In consideration of the payments to be made by the Purchaser to the Supplier as here in after mentioned, the Supplier hereby covenants with the Purchaser to provide the Goods and services and to remedy defects therein in conformity in all respects with the provisions of the Contract.

4.   The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the goods and services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the contract at the times and in the manner prescribed by the Contract.

IN WITNESS: whereof the parties hereto have caused this Agreement to be executed in accordance with their respective laws the day and year first above written.

Signed, sealed, to whom delivered   the   (for the Purchaser)

Signed, sealed, delivered by   the   (for the Supplier)

Technical Specifications (Supply, Installation, Integration and Commissioning Lot wise turnkey basis.

The minimum requirements of **Storage, Server, Network Switches, Data Rack, Rack Mount Console, VM Ware, Laptop, 2MP Bullet Camera, 8MP PTZ Camera, NVR, POE Switche, NAS Diskstation, 55 inch LCD and eDaftar** are given below. The quoted systems and all other specifications should be equal or higher.

LOT # 1: Storage, Network Switch, Data Rack and Rack Mount Console: Bidders are required to quote for complete LOT, partial bid not allowed. The quoted specifications should be equal or higher.

S. No.	Specifications	Qty.
1	**Storage:**	
	Controllers: Active-Active Dual controllers or higher **Ports:** 8 x 1Gb ETH, 4 x 10Gb ETH, 8 x 10GB ETH (Including Multi-Mode optical modules) **Controller Cache:** 64GB per controller or more, (excluding any performance acceleration module, Flash Cache, PAM card, SSD cache, etc.) or higher **H.D.D:** 8 x 1.92TB SAS SSD **Connectivity** 8 x 10Gb ETH (Including multi-mode optical modules), All Interfaces Must have required activated modules with all necessary cable or higher(16GB FC Ports removed and 10G-BaseT changed with 10Gb ETH) **Maximum No of Hosts:** 1024 **Maximum LUNs:** 1500 **Architecture:** Active-Active (A-A) architecture **Software:** Device Manager Thin Provisioning, Snapshots, Replication, Clone, QoS **Supported Interface Protocols:** FC, iSCSI **Front-End Port Types Supported:** 8/16/32 Gbps FC and 1/10/25 Gbps Ethernet **Back-End Port Types:** 4 x SAS 3.0 **Maximum Number of SSDs Supported:** 100 **Supported RAID Levels:** RAID 5, RAID 6 **Power Supply:** Redundant **Warranty:** 3 Years	01
2	**Network Switch:**	02
	1 x Switch, 1U, 24xSFP+, 6xQSFP 24xSFP+/ 6xQSFP, PSU to IO air, 2 PSU 14 x Networking, Transceiver, SFP+ 850nm, LC Duplex 2 x Power Cord, 3Yr Standard Support	
3	**Data Rack With PDU:**	
	42U Server Rack with PDU	01
4	**Rack Mount Console With KVM:**	01
	Rack Mount Console With KVM	

LOT # 2: 2MP Bullet Camera, 8MP PTZ Camera, NVR, Network Switches, NAS DiskStation and 55 inch LCD. Bidders are required to quote for complete LOT, partial bid not allowed. The quoted specifications should be equal or higher.

1	**2MP Bullet Camera:**	Qty.
	High quality imaging with 2 MP resolution, Excellent low-light performance, Efficient H.265+ compression technology, Water and dust resistant (IP67), 24/7 colorful imaging, Support Human and Vehicle Detection, Image Sensor 1/2.8" Progressive Scan CMOS,Max. Resolution 1920 × 1080, Min. Illumination Color: 0.001 Lux @ (F1.0, AGC ON), 0 Lux with light, Supplement Light Type White Light Supplement Light Range Up to 30 m, Video Compression, Main stream: H.265+/H.265/H.264+/H.264 Sub-stream: H.265/H.264/MJPEG, Third stream: H.265/H.264, Audio Type Mono sound Environment Noise Filtering Yes Audio Sampling Rate 8 kHz/16 kHz Audio, Wide Dynamic Range (WDR) 120 dB, SNR ≥ 52 dB, Day/Night Switch Day, Night, Auto, Schedule, Image Enhancement BLC, HLC, 3D DNR, Protection IP67: IEC 60529-2013	450
2	**8MP PTZ Camera:**	
	8MP 25× Network IR, Speed Dome adopts 1/1.2" progressive scan CMOS chip. With the 25× optical zoom lens, Expansive night view with up to 500 m IR distance, Water and dust resistant (IP67), Supports face capture to detect, capture, grade, and select faces in motion, Supports road traffic to detect vehicles, Image Sensor 1/1.2" progressive scan CMOS, Min. Illumination Color: 0.002 Lux @(F1.6, AGC ON), B/W: 0.0002 Lux @(F1.6, AGC ON), 0 Lux with IR, Shutter Speed 1/1 s to 1/30,000 s, Slow Shutter Yes, Day & Night IR cut filter, Zoom 25x optical, 16x digital, Max. Resolution 3840 × 2160, Focus Auto, semi-auto, manual, rapid focus, Focal Length 7.5mm to 187.5mm, Day/Night Switch Day, night, auto, scheduled-switch Image Enhancement BLC, HLC, 3D DNR Wide Dynamic Range (WDR) 140 dB Defog Optical defog Image Stabilization EIS (Built-in gyroscope to improve EIS performance), Alarm 7 inputs, 2 outputs Audio 1 input (line in), max. input amplitude: 2-2.4 vpp, Face Capture Support detecting up to 30 faces at the same time. Support detecting, tracking, capturing, grading, selecting of face in motion, and output the best face picture of the face Face Comparison Yes Perimeter Protection Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle), Protection IP67 (IEC 60529-2013), 6000V Lightning Protection, Surge Protection and Voltage Transient Protection	10
3	**NVR with 45 Days Storage:**	
	Up to 128 IP cameras can be connected. , Support live view, storage, and playback of the connected camera at up to 12 megapixels resolution. , H.265+ compression effectively reduces the storage space by up to 75%. , 4 self-adaptive 10M/100M/1000M network interfaces. , Adopt stream over TLS encryption technology (enhanced SDK service and RTP over HTTPS protocol), Connectable to the third-party network cameras, Up to 16 SATA interfaces and 1 eSATA interface provided for HDD connection, 10 TB capacity for each HDD, HDD health monitoring. , Supports HDD quota and group modes; different capacity can be assigned to different channels, Normal/Important/Custom video playback.	05

		Incoming bandwidth 576 Mbps/Outgoing Bandwidth 512 Mbps, RAID0, RAID1, RAID5, RAID 6, and RAID10, IPv6, HTTPS, UPnP, SNMP, NTP, SADP, SMTP, NFS, iSCSI, PPPoE, DDNS, 4, RJ45 10M/100M/1000M self-adaptive Ethernet interface	
		8TB HDD Surveillance Grade	30
4	**Network Switch:**		
		48 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports, 2 x 12GE stack ports 1+1 power supply backup Forwarding performance: 150 Mbps Switching capacity*: 200Gbps or more Must support RAM 2GB or more Co-Care_36Month(s) **Layer 2 Features** The equipment must support up to 32K MAC address tables Should support Ethernet Ring Protection Switching Support Mac-based, Port-based, protocol-based, and IP subnet-based VLAN assignment, up to 4K active VLAN, Guest VLAN or equivalent, voice VLAN or equivalent **Layer 3 Features** The equipment must include Static route, RIP, RIPng, and OSPF features and provide at least 2K FIBv4 entries. **Multicast** The equipment must support IGMP snooping v1/v2/v3, MLD snooping v1/v2, multicast VLAN replication **QoS** The equipment must support ingress and egress traffic shaping and VLAN based traffic limit, flow mirroring **Security** The equipment must support bidirectional ACL, port-based ACL, VLAN-based ACL, automatic isolation of attack sources, CPU defense, DAI (Dynamic ARP Inspection), DHCP Snooping, IP Source Guard, port-based network access control according to IEEE 802.1x standard **Network O&M** The equipment must support SNMPv1/v2c/v3, Telnet, RMON, SSHv2, CLI, web management and automatic configuration.	04
5	**POE Switch:**		
		24 Ports L2 Ethernet Switch 24 x 10/100/1000BASE-T PoE+ Ports, 4 x 100/1000BASE-X Ports, and 4 x GE Combo Ports, (AC/DC)	35
6	**NAS DiskStation:**		

	Intel Quad Core 2.1 GHz (Burst up to 2.6GHz) or above RAM: 8GB DDR4 (Expandable min up to 32GB or above) 16 X 4TB NAS Hard Drive Iron Wolf / WD-RED Ports: 3 X USB 3.0, 4 X RJ45 1GbE, 2 X eSATA Storage: 64TB (Expandable min up to 256TB or above) Expansion Slots: 1 X PCI X8 Gen3 M.2 SSD-cache adaptor supported Raid support: Basic, JBOD, RAID 0,1, 5, 6, 10, RAID F1 File Protocol: CIFS/AFP/NFS/FTP/WebDAV	01
7	**55 inch LCD:**	
	Display size: 55 inches (measured diagonally) Display type: LCD (Liquid Crystal Display) Resolution: typically 3840 x 2160 pixels (4K Ultra HD) Refresh rate: 120Hz Contrast ratio: typically 3000:1 or higher Viewing angle: typically 178 degrees (horizontal and vertical) Brightness: typically 300-500 nits Inputs: HDMI, USB, Ethernet, Wi-Fi With 10 Meter HDMI cables	12

PASSIVE EQUIPMENT		
ITEM	**SPECIFICATION:**	**Qty.**
UTP Cable	Cat 6 UTP 4 pair cable, Conductor: Solid Bare Copper AWG 23, 305 Meter Box	**70 Roll**
Patch Panel	24 Port Patch Panel	**25 nos**
UTP Patch Cable (cord)	Patch Cord, UTP Cat-6 Patch Cord, RJ45 to RJ45, 3- Meter, PVC	**150 nos**
	Patch Cord, UTP Cat-6 Patch Cord, RJ45 to RJ45, 1- Meter, PVC	**150 nos**
RJ 45	Connector Box	**35 nos**
Data Rack/Cabinets	6U Rack single section	**01 nos**
	42U Floor Standing Rack for Switches, 4 fans mounted on top, 16-18SWG, Load capacity 850 Kg Black powder quoted and perforated door with 8 ports PDU and PDU should be verified by ROHS & CE.	**03 nos**
	Waterproof 1U Cabinet with Lockable door and Galvanized steel material, Cooling AC220V 90 CFM with single Fan	**110 nos**
	Waterproof 3U Cabinet with Lockable door, Galvanized steel material, Cooling AC220V 90 CFM Dual Fan	**15 nos**
Optical Fiber Cable	12-Core Single mode Fiber Optic Cable Outdoor Direct Burial	**As per actual**
	Soft and Hard Digging and Refilling	**As per**

		actual
ODF & Splicing	12 Port Rack Mount Optical Fiber ODF with Adopters & Splicing Tray	**50 nos**
	04 Port Rack Mount Optical Fiber ODF with Adopters & Splicing Tray	**200 nos**
	Fiber Splicing with OTDR Testing	**As per requirement**
	Single Mode fiber patch cord SC-SC (3Meter Duplex)	**400 nos**
Joint Box	ODF Joint box for Fiber Cable 12Core.	**10 nos**
Cable Ties	Cable Ties 6 Inch	**15 nos**
	Cable Ties 12 Inch	**25 nos**
Pipes	PVC Flexible Pipe, 1-inch (10 feet Length)	**On Job**
Duct	PVC Duct 16x16 (10 feet length)	**On Job**
	PVC Duct 16x38 (10 feet length)	**On Job**
	PVC Duct 40x40 (10 feet length)	**On Job**
Wire Tape	Water Proof Wire Tape	**On Job**
Media Converter	Media Convertor Pair	**250 nos**
Installation	Installation/laying of 12-Core Single mode Fiber Optic Cable Outdoor	**As per actual**
	Cable Laying, Ducting, Fixing of Cable and Complete Installation	**460 points**
	Installation of CCTV Cameras	**460 points**
Poles	13 feet Galvanized Steel Pole with 2.5 feet arm including complete Installation	**150 nos**
Electrical Equipment	Breaker	**150 nos**
	Light Plug	**150 nos**
	Camera Adaptor	**100 nos**
	8 port PDU's	**12 nos**
	3/29 Pure Copper Wire For Power	**On Job**

LOT # 3: Solution for office Automation (eDaftar). Bidders are required to quote for complete LOT, partial bid not allowed. The quoted specifications should be equal or higher.

S. No.	Specifications	Qty.
1	**Servers:**	
	2 x Processor Intel® Xeon® Silver 4316 2.3G, 20C/40T, 10.4GT/s, 30M Cache, Turbo, HT (150W) DDR4-2666 6 x 32GB RDIMM, 2933MT/s, Dual Rank (Total 192GB) 4 x 480GB SSD SATA Read Intensive 6Gbps 512 2.5in Hot-plug AG Drive, 3.5in HYB CARR, 1 DWPD CARR 1 x Optical DVD+/-RW, SATA 1 x RAID Controller, 8Gb NV Cache, Adapter, Low Profile 1 x Dual Port 10GbE SFP+ & 5720 Dual Port 1GbE BASET RNDC 1 x Quad Port 1GbE BASE-T Adapter, PCIe Full Height 1 x 16Gb Fiber Channel HBA, PCIe Full Height 1 x Integrated Remote Access Controller, Enterprise 2 x SFP+ SR Optic 10GbE 850nm Chassis with up to 8 x 3.5" SAS/SATA Hard Drives for 2CPU Configuration 2 x Jumper Cord, 4M, 250V, 10A Dual, Hot-plug, Power Supply Fault Tolerant Redundant (1+1), 800W, Mixed Mode, NAF Ready Rails™ Sliding Rails with Cable Management Arm Pro-Support and Next Business Day Onsite Service	05
2	**VMware vSphere 8 Ess Plus Kit:**	01
	VMware vSphere 8 Ess Plus Kit for 3 hosts (Max 2 CPU per host, 32 cores/CPU),3YR VMware SNS	
3	**Laptop (Mobile Workstation):**	
	Processor: Intel Xeon E-2176M RAM: 64 GB - DDR4-2666MHz Storage: 1 TB PCIe SSD Display: 15.6 Inches – Touch Graphics: NVIDIA Quadro Pro P2000 4G OS: Windows 10 Pro	01

eDaftar Details as follows

UET Lahore is seeking proposals from qualified vendors to provide a comprehensive solution for office automation, commonly referred to as eDaftar, to increase transparency, accountability, and efficiency in our organization's procedures and operations.

The proposed solution should aim to connect colleagues, streamline processes, and improve productivity while addressing the limitations faced in developing countries like Pakistan, including lower literacy, financial constraints, and resistance to change.

Our main focus is on providing e-coverage to the current manual file system in public and private offices, which is plagued by delays, invisibility, low productivity, poor check & balance, lack of timed accountability, inefficiency, prolonged review, entailed corruption, and vulnerability to undue interference.

The proposed eDaftar-360 system is intended to add transparency, efficiency, time framing, and accountability to the current manual file system, and will have better acceptability and usability. Some of the rich features of eDaftar-360 include:

- Automated tracking of file movement
- Real-time visibility of file status
- Digital signature capability
- Automated reminders and alerts
- Access control and permissions management
- Customizable workflows
- Integration with other systems
- Comprehensive reporting and analytics

Interested vendors must have proven experience in providing similar solutions to public and private organizations. The vendor must also demonstrate their ability to provide ongoing support and maintenance for the proposed solution.

Proposals must be submitted by [deadline date] in a sealed envelope marked "eDaftar Tender Proposal" to [address]. The proposals will be evaluated based on the technical and financial proposal.

UET Lahore reserves the right to accept or reject any or all proposals, to waive any formalities or irregularities in the proposals received, and to negotiate with any qualified vendor for the best value to the organization.

Scope of work

1. eMeeting System:

• Design and development of an eMeeting system that supports complete meeting scheduling online and on premises. The system should maintain the version of the source meeting and support different types of meetings such as Syndicate, Board of Studies, CPC, etc.

• Integration with ERP calendar and email-based reminders to ensure timely notifications to all participants.

• The system should support multiple virtual channels such as jit.si, Zoom, MS Teams, and Google Meet for conducting virtual meetings.

• The system should enable the planning of the complete agenda for the meeting, including team members with roles (such as chair, member, assistant), presence status of members, minutes of the meeting, and e-approval of the minutes.

• The system should have a calendar view and Gantt Chart view to enable efficient scheduling of meetings and tracking of progress.

• The vendor must provide training to the relevant staff on the proper use of the eMeeting system and ensure the system is user-friendly and easy to navigate.

• The vendor must provide ongoing support and maintenance for the eMeeting system, including bug fixes, upgrades, and technical support.

• The vendor should ensure the eMeeting system is scalable to meet the future needs of the organization and can accommodate a growing number of users.

• The vendor should adhere to all relevant laws, regulations, and guidelines governing data privacy and security.

• The vendor should provide a detailed project plan and timeline for the implementation of the eMeeting system and regularly update the organization on progress.

The eMeeting system should enhance collaboration, increase efficiency, and provide a seamless experience for all users. The proposed solution should be scalable, user-friendly, and cost-effective to meet the needs of the organization.

2.   eTracking System

• Design and development of an eTracking system that allows the organization to inject all received emails directly into the system or manually create an incident. Each incident should be integrated with eDocument to maintain accurate records.

• The eTracking system should be able to delegate incidents to any user for required action or follow-up to the N level of hierarchy. Automatic incident receiving should be performed with proper "Received by" and "Received datetime" stamps.

• The eTracking system should allow for carbon copying (CC) of the incident to N level of people while delegating an incident to anyone. The system should also be able to mark user-defined tags such as priority level, privacy level, or others with an incident. Deadline marking should be possible at the time of any delegation, and the system should report incidents whose deadline is near.

• The system should maintain all feedback/notes while moving forward the incident to the N level of hierarchy and similarly return the incident back to the same level of hierarchy.

• The eTracking system should allow for marking certain comments and notes as private so that they can only be seen by the initiator. The system should also generate email or system-based notifications for each event.

• Every user should be able to attach documents in each response to an incident. These attachments should not be treated as eDocument unless explicitly mentioned.

• The proposed solution should integrate with the eDocument system and leverage its various features regarding the document management system.

• The vendor must provide training to the relevant staff on the proper use of the eTracking system and ensure the system is user-friendly and easy to navigate.

• The vendor must provide ongoing support and maintenance for the eTracking system, including bug fixes, upgrades, and technical support.

• The vendor should ensure the eTracking system is scalable to meet the future needs of the organization and can accommodate a growing number of users.

• The vendor should adhere to all relevant laws, regulations, and guidelines governing data privacy and security.

• The vendor should provide a detailed project plan and timeline for the implementation of the eTracking system and regularly update the organization on progress.

The eTracking system should improve efficiency, provide timely and accurate incident management, and ensure seamless communication among users. The proposed solution should be scalable, user-friendly, and cost-effective to meet the needs of the organization.

3. eDocument System

The proposed solution should include the following scope of work:

• Design and development of an eDocument system that allows the organization to archive or delete documents with proper protection measures. Users should have to archive a document before deleting it.

• The eDocument system should facilitate the creation of hierarchical folders and allow for defining workspaces with their own set of tags and actions.

• The system should allow for tagging, previewing, or launching actions on a set of documents at once, to work in batches.

• The eDocument system should enable the sharing of folders to offer access to external users (with or without logins) and allow them to upload new documents.

• The system should have the ability to lock a file so that other users will not be able to modify that specific document.

• The eDocument system should enable online preview of most file formats, including PDFs, images, and videos.

• Users should be able to upload regular files or create documents as links (e.g., Google Doc files).

• The system should allow for assigning documents to users, customers/vendors, or Odoo documents (invoices, tasks, products).

• Users should be able to arrange their documentation in accordance with priority or importance via drag and drop option.

• The system should enable users to manage their documents by directory and share directories with other users by adding them to the user list.

• The eDocument system should be able to split multi-page PDFs into several documents, which is useful when scanning documents in batches.

• The vendor must provide training to the relevant staff on the proper use of the eDocument system and ensure the system is user-friendly and easy to navigate.

• The vendor must provide ongoing support and maintenance for the eDocument system, including bug fixes, upgrades, and technical support.

• The vendor should ensure the eDocument system is scalable to meet the future needs of the organization and can accommodate a growing number of users.

• The vendor should adhere to all relevant laws, regulations, and guidelines governing data privacy and security.

• The vendor should provide a detailed project plan and timeline for the implementation of the eDocument system and regularly update the organization on progress.

The eDocument system should provide a comprehensive document management solution, enabling efficient organization, sharing, and editing of documents. The proposed solution should be scalable, user-friendly, and cost-effective to meet the needs of the organization.

4. eLearning System

The proposed solution should include the following scope of work:

• Design and development of an eLearning system that offers a central knowledge base for organizational policies and procedures, security requirements, templates, FAQs, and software documentations, among others.

• The eLearning system should enable community learning, sharing of knowledge, and inspire others.

• The system should provide engaging content such as videos, web pages, presentations, and documents that can be accessed on any device.

• The eLearning system should allow for rapid editing, including drag and drop creation of pages with infographics and animations.

• Users should be able to engage in self-paced learning, where lessons are grouped into sections, and the system shows participants their progress.

• The vendor must provide training to the relevant staff on the proper use of the eLearning system and ensure the system is user-friendly and easy to navigate.

• The vendor must provide ongoing support and maintenance for the eLearning system, including bug fixes, upgrades, and technical support.

• The vendor should ensure the eLearning system is scalable to meet the future needs of the organization and can accommodate a growing number of users.

• The vendor should adhere to all relevant laws, regulations, and guidelines governing data privacy and security.

• The vendor should provide a detailed project plan and timeline for the implementation of the eLearning system and regularly update the organization on progress.

The eLearning system should provide a comprehensive and engaging learning experience, enabling efficient sharing of knowledge and promoting continuous learning. The proposed solution should be scalable, user-friendly, and cost-effective to meet the needs of the organization.

5. eDiscuss System

The proposed solution should include the following scope of work:

• Design and development of an eDiscuss system that enables discussions between all levels of colleagues in the organization.

• The eDiscuss system should allow for live chat from anywhere, ensuring seamless communication among colleagues.

• The system should enable the creation of channels and private groups, promoting collaboration and teamwork.

• Users should be able to send notifications to colleagues, ensuring that everyone stays informed of important updates and discussions.

• The eDiscuss system should be integrated with all modules, enabling users to seamlessly switch between modules while continuing their discussions.

• Users should be able to schedule activities, including reminders, follow-ups, to-do lists, and the organization of meetings.

• The vendor must provide training to the relevant staff on the proper use of the eDiscuss system and ensure the system is user-friendly and easy to navigate.

• The vendor must provide ongoing support and maintenance for the eDiscuss system, including bug fixes, upgrades, and technical support.

• The vendor should ensure the eDiscuss system is scalable to meet the future needs of the organization and can accommodate a growing number of users.

• The vendor should adhere to all relevant laws, regulations, and guidelines governing data privacy and security.

• The vendor should provide a detailed project plan and timeline for the implementation of the eDiscuss system and regularly update the organization on progress.

The eDiscuss system should provide a comprehensive communication solution, enabling efficient discussions and promoting collaboration among colleagues in the organization. The proposed solution should be scalable, user-friendly, and cost-effective to meet the needs of the organization.

6.   Monitoring Analytics System

The proposed solution should include the following scope of work:

• Design and development of a monitoring analytics system that provides insights into organizational processes and procedures.

• The system should enable tracking of average delay in responses by user and department, providing valuable insights into areas for improvement.

• The system should allow for follow-ups as per due date, ensuring that tasks are completed on time and deadlines are met.

• The vendor must provide training to the relevant staff on the proper use of the monitoring analytics system and ensure the system is user-friendly and easy to navigate.

• The vendor must provide ongoing support and maintenance for the monitoring analytics system, including bug fixes, upgrades, and technical support.

• The vendor should ensure the monitoring analytics system is scalable to meet the future needs of the organization and can accommodate a growing number of users.

• The vendor should adhere to all relevant laws, regulations, and guidelines governing data privacy and security.

• The vendor should provide a detailed project plan and timeline for the implementation of the monitoring analytics system and regularly update the organization on progress.

The monitoring analytics system should provide valuable insights into organizational processes and procedures, enabling continuous improvement and increased efficiency. The proposed solution should be scalable, user-friendly, and cost-effective to meet the needs of the organization.

Platform Requirements and SLA Support

The proposed solution should meet the following platform requirements:

• Operating systems: Ubuntu Server, CentOS

• Database: PostgreSQL

• Load Balancer: NGINX

• ERP: Odoo 14

• Deployment: Public Cloud, On-Premises

The vendor should ensure that the proposed solution is compatible with the above platform requirements and can be easily deployed on both public cloud and on-premises environments.

The vendor should provide SLA support for a period of 5 years, ensuring that the system operates at optimal performance and any issues are resolved in a timely manner. The SLA should include:

• 24/7 technical support

• Regular maintenance and upgrades to ensure optimal performance

• Guaranteed response time for issue resolution

• Regular backups and disaster recovery planning to ensure data integrity and availability

• Adherence to all relevant laws, regulations, and guidelines governing data privacy and security

The vendor should provide a detailed SLA plan outlining the scope of support, response times, and escalation procedures. The SLA plan should be regularly reviewed and updated to ensure that it meets the changing needs of the organization.

The proposed solution should meet the platform requirements and provide SLA support to ensure the system operates at optimal performance and any issues are resolved in a timely manner. The vendor should adhere to all relevant laws, regulations, and guidelines governing data privacy and security.