

Punjabi University, Patiala

(Established under Punjab Act # 35 of 1961)

University Computer Centre

SHORT TERM E-TENDER NOTICE

E-Tender for items and their successful integration/ installation (rate on complete project basis) through electronic tendering process is invited from the Manufacturers/ Suppliers/ Dealers/ System Integratorsetc.(termed as vendor in the document) for the purchase and their successful integration/ installation of items listed as below, fulfilling the eligibility criteria mentioned herein that should be uploaded & received on <https://tenderwizard.com/PUNJAB>

1. Last date and Time for receipt of Tender online : **Date 25-02-2020 - 16:00 PM**
2. Time and date of opening Technical bid : **Date 27-02-2020 - 11:00 AM**
3. Time and date of opening Financial bid : **Date 28-02-2020 - 03:00 PM**

<i>Sr.No</i>	<i>Name of Supply</i>	<i>Earnest Money (Refundable)</i>	<i>Tender Fees (Non Refundable)</i>	<i>Bid processing fee (Non Refundable)</i>
1.	Purchase of WAPs, Wireless Controller, PoE switches, CAT 6A cable, I/O points etc. and their successful integration installation (rate on complete project basis) at Punjabi University Patiala.	Rs. 53,000/-	2,000/-	2,360/-

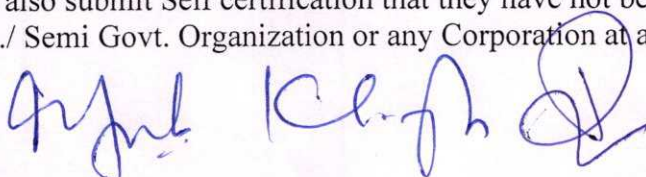
Aspiring Tenderer who has not obtained the User ID and password for participating in e- tendering may obtain the same by registering in the e- procurement portal www.tenderwizard.com/PUNJAB. The Tenderers once registered can participate in any of the department tenders. For any clarification contact 9257209340, 0172-5035985, 8146699866 or E-mail : etenderhelpdeskpb@gmail.com, pavitar.s@etenderwizard.com

Terms and conditions:-

1. Earnest Money and Tender form fees separately of required value shall be submitted in shape of DD of any Nationalised Bank payable in favour of The **Registrar**, Punjabi University Patiala or through online mode. Tender fee, Earnest money must reach on or before dt25-02-2020 till 4:00 PM in the Office of the Director, IQAC Cell, Punjabi University, Patiala.
2. Tender Processing fee should be paid through e- payment (Direct Debit or Internet Banking)
3. The Tender documents shall be uploaded online in 2 folders.
 - (i) Folder-A: Shall contain pre qualification documents such as Registration, PAN No., GST, Income Tax Return and Non Black list Self certificate etc. uploaded on website.
 - (ii) Folder-B: shall contain technical bid and financial bid on the prescribed form (online).
4. In case earnest money and tender fees of the requisite value is not deposited, the bid will not be considered and rejected straightaway.
5. The folder-B: shall be opened only of those vendors who will be found technically qualified for the supply.
6. Corrigendum /Addendum/Corrections, if any will be published in the web site only. Firm shall continue to check the Web site www.tenderwizard.com/PUNJAB

PRE-QUALIFICATION REQUIREMENTS:-

1. Only Manufacturers/Suppliers/ AuthorizedDealers/ System Integratorsetc. of Equipment can participate.
2. The vendor shall submit a copy of PAN No., GST No. etc.
3. The vendor shall submit copies of income tax return for the last 2 years.
4. The vendor shall also submit Self certification that they have not been debarred/ blacklisted by any Govt./ Semi Govt. Organization or any Corporation at any stage.



Please note that Quantity mentioned below is indicative in nature. It is subject to change as per the actual requirements. It may increase/ decrease or may not be purchased at all.

Description of Wi-Fi LAN equipment and its set up (Project basis)

Technical Specifications		
WLAN Controller(Hardware Appliance or SDN based)		
Sr. No	Specifications	
1	Product Details	Make, Model No / Product code
2	Performance & Capacity	Minimum 82 APs licenses enabled on day one with lifetime Upgradation
		User isolation based on AC, AP and WLAN
		At least 3K wireless clients
		RF Management
3	STA Management	AP-based load balancing; AP traffic-based load balancing; 5G priority access; RSSI threshold
		Support MAC Address binding
4	Roaming	Roaming across Subnets and VLANs
5	Redundancy	Self-Healing around failed APs
6	Management	Automatic L2/L3 discovery of Aps
		Dynamic RF channel and power management
7	Security	Integrated captive portal
		802.1x authentication
		802.11 security and encryption
		WIDS
8	Routing	Rogue AP detection and Prevention
		IPv6 management and Static & Dynamic routing
9	Access Control	Scalable to support BYOD, identity-based network policies
10	Warranty	Lifetime Validity/Warranty

802.11ac Wireless Access Point (Controller Managed)		
S. No	Specifications	
1	Product Details	Make, Model No / Product code
2	I/O Ports	2 x 10/100/1000BASE-T autosensing RJ-45 PoE Ethernet Ports
		1 USB Port / One Console port for management
3	Standards	802.11 ac with Concurrent dual radio & Dual-band or higher
		802.11b/g/n (2.4 GHz) and 802.11a/n/ac (5 GHz) operating bands
4	Supported Data Rates	Indoor Access Point with internal antennas
		Data rates up to 2.5Gbps or higher per AP
		Wave 1 and Wave 2 support
		4x4 MU-MIMO
		4 Spatial streams
5	Modulation	HT160, HT80, HT40, HT20
		BPSK, QPSK, 16QAM, 64QAM and 256QAM
6	Capacity	At least 50+ or more simultaneous users per AP
7	RF Antenna	Inbuilt Smart / Adaptive or better antenna technology for wider coverage

8	Deployment Options	Standalone (individually managed)
		Managed by WLAN Controller
		AP Fall-back/Automatic switchover of AP to standalone mode/redundant Controller in case of failure of Controller to support high availability
9	Performance	WMM/802.11e support
10	Security	WPA, WPA2 & 802.1x, PEAP authentication
		User isolation
		Rogue AP detection and Prevention
		Dynamic ACL assignment ,RADIUS Support, CPU Protection Policy (CPP) , Network Foundation Protection Policy (NFPP), Fault detection feature
		Wireless Intrusion Detection System(WIDS),
		Wireless Intrusion Prevention System (WIPS).
		SNMP v1/v2C/v3 and Web management
	Wall/Ceiling Mounting kit to be supplied with AP	
11	Network Protocols	IPv4, IPv6 and dual-stack
12	Certifications	Wi-Fi Alliance Certification/Wi-fi Certified
13	Standard	Safety Standard GB4943, EN/IEC 60950-1 or equivalent
		EMC Standard GB9254, EN301 489 or equivalent
		Health Standard EN 62311 or equivalent
		Radio Standard EN300 328, EN301 893 or equivalent
14	Enclosure	IP41 or better
15	Warranty	Lifetime Warranty (minimum 5 Years)

Description of Networking Switch (Item Based)

8 Port POE Managed Switch		
S. No	Specifications	
1	Compatibility	Compatible with HP iMC (NMS)
2	Hardware	POE 10BASE-T/100BASE-TX/1000BASE-T : 8
		1000BASE-X SFP Ports : 2
		Gigabit Managed Switches
3	Performance	Switching Capacity : 20 Gbps
		Min. 130 watts
		Internal/external surge protection on all Ethernet ports
		Lifetime Warranty (minimum 5 years)

[Handwritten signatures and initials in blue ink]