

***Punjabi University, Patiala***  
(Established under Punjab Act # 35 of 1961)  
***University Computer Centre***

**SHORT TERM E-TENDER NOTICE**

E-Tenders for items (per item rate basis) and networking projects (rate per project basis) are invited by Punjabi University, Patiala to make purchase of High Speed Scanner, Desktops, Laptops, Printers, Server, UPS, Projectors (LCD/LED/DLP) for its different departments and branches, switches, networking equipment, Wi-Fi LAN equipment and its setup (Project Based), Networking of Computer Labs (Project Based) in different departments/ branches. To quote for it please refer to the website [www.tenderwizard.com/PUNJAB](http://www.tenderwizard.com/PUNJAB). All interested Manufacturers/ Suppliers/ Authorized Dealers/ OEMs/ System Integrators/ Vendors etc., fulfilling the eligibility criteria mentioned herein can quote for.

1. Last date and Time for receipt of Tender online : Date **11-02-2019 (till 5.00 PM)**
2. Last date to Physically submit Folder A  
in the office of Director, University Computer Centre: Date **12-02-2019 (till 2:00 PM)**
3. Time and date of opening Technical bid  
in the Computer Lab of University Computer Centre: Date **14-02-2019 (11:00 AM)**
4. Time and date of opening Financial bid  
in the Computer Lab of University Computer Centre: Date **15-02-2019 (11:00 AM)**

<i>Sr .No</i>	<i>Name of Supply</i>	<i>Earnest Money (Refundable)</i>	<i>Tender Fees (Non Refundable)</i>	<i>Bid processing fee.</i>
1.	Purchase of, High Speed Scanner, Desktops, Laptops, Printers, Server, UPS, Projectors (LCD/LED/DLP) for its different departments and branches, switches, networking equipment, Wi-Fi LAN equipment and its setup (One each Project Basis Separately), Networking of Computer Labs in different departments/ branches (On Each Project Basis Separately).	<i>Total of all items &amp; projects = Rs. 86,140 (To be calculated on per item and on project basis as explained in the procedure given below to calculate it )</i>	Rs. 2000/-	Rs. 2360/-

**TOTAL EARNEST MONEY SHALL BE CALCULATED AS THE SUM TOTAL OF ALL THE ITEMS BEING QUOTED BY THE RESPECTIVE VENDOR.**

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](http://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](mailto:etenderhelpdeskpb@gmail.com), [pavitar.s@etenderwizard.com](mailto:pavitar.s@etenderwizard.com)

**All other details can be seen in the bidding document.**

**Terms and conditions:-**

1. The last date for Bid Processing fees, Tender fees and submission of e- tender through e- payment (Direct Debit or Internet Banking, NEFT, RTGS) on e- procurement portal [www.tenderwizard.com/PUNJAB](http://www.tenderwizard.com/PUNJAB) is 11.02.19 (till 5.00 pm) .
  - Those who have already submitted Tender fees against tender advertisement no. 2077/DPR dated 03.01.2019 and advertisement no. 2080/DPR dated 16.01.2019 against quoted items mentioned in this tender document need not to submit tender fees again.
  - Those who have already submitted Earnest money for the items/ projects against above stated tender advertisement, need not to submit earnest money again. However they need to submit earnest money for the rest of the items/ projects they are quoting.
2. The Folder "A " containing Demand Drafts of Earnest money of any Nationalised Bank payable at par in favour of The **Registrar, Punjabi University Patiala**. It must reach the Office of the Director, University Computer Centre by 12.02.19 till 2:00 PM. Please mention " Folder "A"-: Earnest Money" on the envelop.

4. In case Earnest Money, Tender Processing Fees and Bid Processing Fees are not deposited, the bids will not be considered and rejected straightaway.
5. Pre-qualification documents such as Registration, PAN No., GST , Income Tax Return (last 2 years) and Non Black List Self certificate, should be uploaded on e- procurement portal [www.tenderwizard.com/PUNJAB](http://www.tenderwizard.com/PUNJAB)
6. **In case vendor wants to give some clarification/ remarks, the same shall be uploaded on the official letter pad of the company on e-procurement portal.**
7. Corrigendum/Addendum/ Corrections, if any, will be published in the University Website. The Firm may continue to check the University website [www.punjabiversity.ac.in](http://www.punjabiversity.ac.in). frequently.

**PRE-QUALIFICATION REQUIREMENTS: -**

1. Manufacturers/Suppliers/ Authorized Dealers/ System Integrators/ OEMs etc. for Supply of Equipment and setting up of LANs etc. can participate in this Project.
2. The Supplier/Firm shall submit a copy of PAN No., GST No. etc. (Should be uploaded on e- procurement portal Online)
3. The Supplier/firms shall submit copies of income tax return for the last 2 years. (Should be uploaded on e- procurement portal Online)
4. The Supplier/firms shall also submit Self certification that they have not been debarred/ blacklisted by any Govt./ Semi Govt. Organization or any Corporation at any stage. . (Should be uploaded on e- procurement portal Online)

**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.**

Sr.No.	Qty	Specifications	Department	Earnest Money (Rs. )
1.	2	Desktop (LENOVO/ HP/ DELL) Commercial segment 8th Gen. Dual Core Processor, Windows 10 home single language (English) 64 Bit upgradable through Campus Licence Agreement, 4 GB RAM DDR4, 1TB HDD, DVD RW, 21" LCD/LED Coloured Monitor, USB Mouse & Keyboard, 3years warranty onsite	Regional Centre, Bathinda	1,200/-
2.	1	(HP/ Canon/ Epson) Scanner Sheet feed/ADF/ Flatbed scanner- Scanning Resolution up to 600x600dpi, scanning speed-30ppm, ADF capacity-50 sheets.	Department of University Computer Centre	420/-
3.	10	(Hp/ Lenovo/ DELL) Laptops Intel Core i5 8th Gen., 8 GB DDR4 RAM, 2TB HDD, 15.6" Display, 2GB Graphic Card, Windows 10 single language (English) 64 Bit upgradable through Campus Licence Agreement, with Genuine laptop Bag., Three years onsite warranty.	Department of Botany Department of Distance Education Department of Sociology & Social Anthropology Department of University Computer Centre Department of Philosophy	12,000/-
4.	1	Desktop Intel i7 8 <sup>th</sup> Gen., 8GB RAM, Graphics card, Monitor 27", 2 TB HDD, Keyboard, mouse and 1 KVA Offline UPS with 15-30 min backup (with original windows), 2 years warranty.	Department of Journalism and Mass Communication	1,800/-
5.	1	(HP/ Lenovo/ DELL) Laptop Intel Core i7 8th Gen., 8 GB RAM, 1 TB HDD, 15.4" Display, Window 10, Laptop Bag. Three years onsite warranty.	Department of Education and Community Service	1,200/-
6.	1	(HP/ Lenovo/ DELL) Laptop Intel Core i7 8th Gen., 12 GB DDR4-2400 SDRAM, 512GB SSD, 14" Display, 4GB Graphics Card, 2 USB 3.0, 1 USB 2.0, 1 HDMI, Window 10, Laptop Bag. Three years onsite warranty.	Department of University Computer Centre	2,500/-
7.	1	(Epson/HP/Cannon/Ricoh) Inkjet Printer Scanner Copier, with Wi-Fi direct, up to 33 ppm Black and 15 ppm Colour, Copy Size: A4, Letter with Copy resolution of 600 x 600 dpi; Scan resolution 1200 x 2400 dpi, Printing capacity with 4500 pages black and 7500 pages coloured. With 1 year warranty.	Department of ECE	280/-

8.	1	Inkjet Printer with Ink Tanks; Printer, Output - Colour, Pages per minute - 27 pages (Black & White), 15 pages (Colour) ; Paper size- A4/Legal , Warranty - 1 year onsite	Department of University Computer Centre.	160/-
9.	1	Servers: Xeon gold 6136, RAM128 GB DDR4, Storage single rack 6 to8 TB, Raid 1 and 3, RAM slots 24, 4TB Firecuda SATA HDD, Redundant power supply , 21.5" LED, keyboard, mouse, Server Rack 6 U, 24x7 support after sales. Make : HP/DELL/LENOVO	Registration Branch	5,500/-
10.	2	Native Resolution-WXGA (1280x800) HD720P Brightness=800 ANSI Lumens, Contract Ration=30,000:1 Max. Resolution=UXGA (1600x1200) @ 60Hz, Native Aspect Ratio=16:10, Lamp Life and Type=30,000 Hours LED, Display Type=Single Chip DLP, Chip Size=0.45' DMD Throw Ration=1.55:1, Image size 30"~90" Project Distance 1-3m Project Distance, Project lens F/1.9, f=15.3, Zoom Ratio 1x, offset (Based on Full Image Height) 105% keystone correction=Vertical + 33/ -45, Speakers=2W x 1 , i/o connection Ports = HDMI, Audio-Out, USB Type A for Display and Jpg Reader, portable not more than 500 gms, Noise level 34db/ 30 db, Power Supply AC 100-240V, 50/60Hz Consumption 66W/52W, <0.5 w, Wifi USB Dongle USB type A Built in, Standard Accessories = HDMI-MHL cable, user manual, carrying case, quick start guide warranty card, remote controller, wifi USB dongle USB type A, AC power cord, optional accessories = remote control	Department of University School of Applied Management	2,600/-

1. In case of proprietary items, OEM or authorized dealers can be given preference.

2. **TOTAL EARNEST MONEY SHALL BE CALCULATED AS THE SUM TOTAL OF ALL THE ITEMS BEING QUOTED BY THE RESPECTIVE VENDOR.**

### PROJECTS

Project	Qty	Project based Specifications	Annexure	Department	Estimated Cost	Earnest Money
A	1	Networking Lab (Room:- 319) with Installation: 24 Ports Switch (unmanaged), Jack Panel Fully loaded 24 port, 12 U Rack, I/o Point, Patch cords (2 meter Length), Patch Cords ( 1 meter Length), CAT 6 UTP Cable, Conduit Pipe (1 inch) ISI, Conduit Pipe (1.5 inch) ISI with one year network support.	Annexure 'A'	Deptt. of ECE	53,976/-	1,080/-
B	1	Networking of Research Scholar Flats, cable laying (Admin. Block-1), Wi-Fi Setup and inventory etc. and Installation: <b>As per Annexure -B</b>	Annexure 'B'	Deptt. of University Computer Centre	10,00,000/-	20,000/-
C	1+3 +1	Qty :-01, Layer 3 Switch, Qty :- 03, PoE Layer 2 Switch, Qty :-1, Layer 2 Switch, Layer 3 HP Brand, with minimum 16 SFP ports, 4 SFP+ and 8 combo ports, including essential fitments like power supply etc. Lifetime warranty (minimum 5 year). Must be fully compatible with HP iMC Network Management software for full alerts and backups etc., Layer 2 HP Brand, 370 W PoE, 24 gigabit ethernet ports, 2/4 SFP ports, Lifetime warranty (minimum 5 year). Must be fully compatible with HP iMC Network Management software for full alerts and backups etc. , Layer 2 HP Brand, 24 gigabit Ethernet ports, 2/4 SFP ports, Lifetime warranty (minimum 5 year). Must be fully compatible with HP iMC Network Management software for full alerts and backups etc.	Annexure 'C'	Deptt. of University Computer Centre	3,99,000/-	8,000/-

<b>D</b>	7+1	<b>Wi-fi Access Points with Installation:</b> Indoor Wireless access point 802.11bgn/ac POE port, Minimum 50metres range, Minimum 300MB data transfer, support Minimum 20 concurrent connections. Additional: CAT6 UTP, Conduit 1 inch (ISI mark), I/O for Dept. of Biotechnology.	Annexure 'D'	(i) Deptt. Distance Education (ii)Department of Biotechnology	(i)70,000/- (ii)16,000/-	1,700/-
<b>E</b>	1	<b>Wi-fi Setup &amp; Installation:</b> Indoor Wireless Access Point 802.11 AC Series, 4x4:4 Wave 2, min 2.5 Gbps or higher(including the cost of Lifetime Licenses), Minimum 5 Years Warranty. CAT6 UTP, PVC Conduit (ISI), CAT 6 I/O, CAT 6 Patch cord 1 meter, POE kit compatible to access point.	Annexure 'E'	CAMS	35,000/-	700/-
<b>F</b>	10+1	Outdoor Wireless Access Point minimum 1.3 GBPS or Above: Concurrent dual-radio dual-band 802.11a/b/g/n/ac, WAVE 2 802.11b/g/n: 2.4GHz to 2.483GHz Built-in Omni-directional Smart Antenna, 4dBi Antenna gain, Throughput Minimum 1.3Gbps or above (per AP), 3 Spatial Streams ( <i>see Annexure 'F' for detailed specifications</i> )	Annexure 'F'	Baba Banda Singh Bahadur Hostel (Boys)	13,43,680/-	27,000/-

## Annexure-A

## PUNJABI UNIVERSITY, PATIALA.

## Networking Equipment with Installation for Department of Electronics &amp; Communication Engineering

S No.	Item	Quantity	Make/ Model
1	24 Port 10/100 Mbps Unmanaged switch	2	D-Link/HP/Cisco
2	12 U Rack fully loaded	1	Digitec, Gaden, Comrack
3	Jack Panel Fully loaded 24 port	2	D-Link, Actassi, Molex
4	Cat 6 I/O with face plate and SMB	40	D-Link, Actassi, Molex
5	Patch Cords (2meter Length)	40	D-Link, Schneider, Molex
6	Patch Cords (1meter Length)	41	D-Link, Schneider, Molex
7	CAT-6 UTP Cable in meter	450	D- Link
8	Conduit Pipe ( 1 inch) ISI in meter	90	ISI
9	Conduit Pipe ( 1.5 inch) ISI in meter	90	ISI

## Annexure-B

## PUNJABI UNIVERSITY, PATIALA.

## Networking of Research Scholar Flats, Cable laying (Admin. Block-1), Wi-Fi Setup, Inventory and Installation

S.No	Item	Qty	Make/ Model
1	Indoor Wireless Access Points AC Series, 4x4:4 Wave 2, min 2.5 Gbps or higher(including the cost of Lifetime Licenses) Minimum 5 Years Warranty	21	HP/Ruckus/Cisco/Ruijie
2	Hardware Controller, Centralized Management of at least 25 APs with Single appliances (At least 21 APs licenses enabled on day one) <b>Note: No Licenses and Hardware Controller required if access points are compatible with Wireless Controller Ruijie WS 6008; available with the University Computer Centre</b>	1	Compatible with item specified at Sr. No.1 of Annexure 'B'
3	24-Port 10/100/1000 Mbps + 2-Port SFP 1000 Mbps PoE switch, POE 10BASE-T/100BASE-	6	HP/Cisco/D-Link

	TX/1000BASE-T: 24,1000BASE-X SFP Ports: 2, Gigabit Managed Switches, Min. 370 watts, Internal/external surge protection on all Ethernet ports. Lifetime Warranty		
4	8-Port 10/100/1000 Mbps + 2-Port SFP 1000 Mbps PoE switch, POE 10BASE-T/100BASE-TX/1000BASE-T: 8,1000BASE-X SFP Ports: 2, Gigabit Managed Switches, Internal/external surge protection on all Ethernet ports, Lifetime Warranty (Min. 5 Years).	7	HP/Cisco /D-Link
5	OFC SM Six core OS2 standard in meters	200	D- Link
6	LIU 6 Port unloaded	4	D- Link
7	SC Adaptors Single mode	24	D- Link
8	Pigtails Single mode	54	D- Link
9	SC Adaptors Plates	4	D- Link
10	SC-LC Patch Cord Single mode	44	D- Link
11	6 U Rack with accessories	1	D- Link
12	12 U Rack with Accessories	1	D- Link
13	CAT 6 UTP Cable in meters	2135	D- Link
14	Jack Panel Fully loaded 24 port	1	D- Link
15	CAT 6 UTP Patch Cord 1 Meter	30	D- Link
16	Cat 6 I/O with face plate and SMB	20	D- Link
17	SFP Module Single mode	4	SYROTECH/ D-Link/ HP/Cisco
18	Conduit Pipe 1" (ISI) with Clips & Accessories in meters	900	ISI
19	Splicing per fiber core	24	Service
20	Iron Cages for AP	20	Custom
21	Manual Digging at 3 Feet (in meters including laying charges)	150	Service
22	Fiber Patch Cords LC-SC (Multi Mode)	30	D- Link
23	Fiber Pig Tales (Multi Mode)	30	D- Link

## Annexure-C

## PUNJABI UNIVERSITY, PATIALA.

## Networking Equipment for University Computer Centre

S No.	Item	Quantity	Make/ Model
1	Layer 3 Switch with minimum 16 SFP ports, 4 SFP+ and 8 combo ports, including essential fitments like power supply etc. Lifetime warranty (minimum 5 year). Must be fully compatible with HP iMC Network Management software for full alerts and backups etc.,	1	HP
2	PoE Layer 2 Switch, 370 W PoE, 24 gigabit ethernet ports, 2/4 SFP ports, Lifetime warranty (minimum 5 year). Must be fully compatible with HP iMC Network Management software for full alerts and backups etc.	3	HP
3	Layer 2, Non PoE, 24 gigabit Ethernet ports, 2/4 SFP ports, Lifetime warranty (minimum 5 year). Must be fully compatible with HP iMC Network Management software for full alerts and backups etc.	1	HP

**Annexure-D****PUNJABI UNIVERSITY, PATIALA.****Wi-fi-Access Points, Networking with Installation for Department of Distance Education and Department of Biotechnology**

S No.	Item	Quantity	Make/ Model
1	Indoor access point 802.11b/g/n/ac POE port, Minimum 50 metres range, Minimum 300MB data transfer, support Minimum 20 concurrent connections.	8	HP/D-Link/Cisco
2	CAT-6 UTP Cable in meters	100	D- Link
3	Conduit Pipe ( 1 inch) ISI in meters	90	ISI
4	CAT 6 I/O with face plate and SMB	2	D- Link

**Annexure-E****PUNJABI UNIVERSITY, PATIALA.****Wi-fi-Access Point, Networking with Installation for CAMS Department**

S No.	Item	Quantity	Make/ Model
1	Indoor Wireless Access Points AC Series, 4x4:4 Wave 2, min 2.5 Gbps or higher(including the cost of Lifetime Licenses) Minimum 5 Years Warranty.	1	HP/D-Link/Cisco/Ruijie
2	CAT 6 UTP Cable in meters	80	D- Link
3	Conduit Pipe ( 1 inch) ISI in meters	80	ISI
4	POE kit compatible to access point	1	Compatible to access point
5	CAT 6 I/O with face plate and SMB	2	D- Link
6	CAT 6 UTP Patch cord 1 meter	2	D- Link

**Annexure-F****PUNJABI UNIVERSITY, PATIALA.****Wi-Fi setup, Networking and Installation at Baba Banda Singh Bahadur Engineering Hostel**

S.No	Item	Quantity	Make/ Model
1	Outdoor Wireless Access Point minimum 1.3 GBPS or Above per AP, Concurrent dual-radio dual-band,802.11a/b/g/n/ac, ,WAVE 2, 802.11b/g/n: 2.4GHz to 2.483GHz, Built-in Omni-directional Smart Antenna (4dBi),Spatial Streams 3, Must support 3x3 MIMO for both 802.11ac and 802.11n client, IP Rating IP67,Service Port 10/100/1000Mbps ETH1/PoE IN port (RJ-45 connector) OR Small Form-Factor Pluggable (SFP) port, 1 Console Port(RJ45)as Management Port ,Power Supply of PoE+ (802.3at) or DC Power Input, Minimum 100 clients per AP, Should Support Configuring the authentication mode. Encryption mechanism and VLAN attributes for each SSID, Static IP address or DHCP reservation, Should support IPv6 CAPWAP tunnel,ICMPv6,Manual or automatic configuration of IPv6 address, SNMP v1/v2C/v3, Telnet, SSH, TFTP, and FTP and web management, Operating Temperature: -40°C to 70°C,Wall/pole-mount installation.	10	Hp/Ruckus/Cisco/Ruijie
2	Wifi Controller Hardware Based, <b>Centralized Management of at least 100 APs with Single appliances (At least 30 APs licenses enabled on day one)</b> ,Controller should support distributed traffic forwarding allowing traffic to flow directly from source to destination, eliminating needless traffic to pass through the controller, delivering better performance and faster more-responsive applications., User isolation based on AC, AP and WLAN ,Wireless QoS: AP-based bandwidth limiting, WLAN-based bandwidth limiting,	1	Compatible with Wifi Access Points (as per Sr no. 1, Annexure-F)

	Static speed limiting and smart speed limiting based on user, At least 6000 wireless clients with MAC Authentication, AP-based load balancing; AP traffic-based load balancing;5G priority access; RSSI threshold, Roaming across Subnets and VLANs, Multi-Controller Redundancy, clustering, Management of both Indoor and Outdoor AP's (802.11 a/b/g/n/ac),CAPWAP or equivalent encrypted communications between AP and Controller, Dynamic RF channel and power management, Integrated captive portal,802.11 security and encryption,IPv6 management and Static & Dynamic routing, Console and Web management		
3	24-Port 10/100/1000 Mbps + 2-Port SFP 1000 Mbps PoE switch, POE 10BASE-T/100BASE-TX/1000BASE-T: 24,1000BASE-X SFP Ports: 2, Gigabit Managed Switches, Min. 370 watts, Internal/external surge protection on all Ethernet ports. Lifetime Warranty	1	HP/Cisco/D-Link
4	8-Port 10/100/1000 Mbps + 2-Port SFP 1000 Mbps PoE switch, POE 10BASE-T/100BASE-TX/1000BASE-T: 8,1000BASE-X SFP Ports: 2, Gigabit Managed Switches, Switching Capacity: 20 Gbps, Internal/external surge protection on all Ethernet ports, Lifetime Warranty (Min. 5 Years).	1	HP/Cisco /D-Link
5	CAT 6 UTP cable (in meters)	915	D- Link
6	Jack Panel Fully loaded 24 port	2	D- Link
7	CAT 6 I/O with face plate and SMB	10	D- Link
8	Patch Cord (1 Meter CAT 6)	12	D- Link
9	Patch Cord (2 Meter CAT 6)	10	D- Link
10	Rack 9 U with accessories	2	D- Link
11	Pole for Camera (Iron cast 5 meter for AP along with AP mounting kits & installation)	1	Customised
12	Iron angle arms with AP mounting kit & installation	8	Customised
13	PVC Junction box with pre Moulded cable entry IP 66-67 with RAL7035	10	Customised
14	Industrial grade flexible roll, Make-LAP (unit: 25 meter roll)	1	ISI Marked
15	PVC Conduit pipe 1" ISI with clips & bends ( in meters)	700	ISI Marked
16	Cable Laying (in meters)	915	Customised
17	Conduit laying (in meters)	700	Customised
18	Digging Manual at 3 Feet depth (in meters)	30	Customised

**Note:**

- 1) Outdoor Access Point and Switches shall have life time warranty.
- 2) Wireless Controller (Hardware based) shall support 100 Access Points with Single appliances at least 30 Access Points license enabled on day one with lifetime warranty on product & license.

**Terms and Conditions:-**

1. Prices should be inclusive of all taxes and levies in INR, FOR Punjabi University Patiala.
2. Payment will be released on successful installation and commissioning.
3. Although, rates for projects are invited on item/ work basis but the execution of project requires services of single vendor/ system integrator. Hence, the lowest bidder will be determined on the basis of the cost of all items/ works pooled together for the entire project. Order can be placed to different vendors/system integrator for different Projects. Only one vendor/system integrator will execute a single project to its entire completion.
4. All items to be supplied must be branded and shall be amply supported onsite directly by OEM. All RMA, shall be in name of Punjabi University, Patiala.
5. Vendor/ System Integrator shall be responsible for onsite deployment / configuration etc.
6. All costs related to the installation of the equipment (including all necessary materials, labour, etc.) will be the responsibility of the vendor.

7. If there is holiday on the receipt/ opening day of the tender, the tender may be received/ opened on the next working day at the same time and at the same place.
8. The Purchase Committee reserves the right to reject the tender without assigning any reason before/ after opening of the tenders and the tenderers shall have no right or any claim what so ever for the same on this account.
9. University reserves the right to increase/ decrease the quantity of items. The order for quantity of different items can be increased or decreased. The Suppliers/ Tenderers shall have no right or any claim what so ever for the same on this account. The payment for passive components will be made on the basis of actual consumption.
10. The rate quoted by the Supplier/ Tenderer shall be inclusive of all the taxes i.e. GST or any other taxes levied by Central Govt. or State Government Authority or Local Bodies including their variations as notified by the Concerned Authority from time to time and of all the new taxes and levies that may be imposed. Firm will supply the material on quoted Rates which include F.O.R., Loading, Unloading, stacking and inclusive of all taxes. Nothing Extra shall be paid.
11. All costs shall include the installation of the equipment (including all necessary materials, labour, etc.) except for **Project 'C'**.
12. Project wise earnest money has been depicted in the e-Tender Notice on the website [www.punjabiversity.ac.in](http://www.punjabiversity.ac.in).
13. The Supplier/ Tenderer shall comply with the proper by- Laws and legal order of the local body or authority under the jurisdiction of which the supply is executed and pay all fees and charges for which Supplier/ Tenderer may be liable. Nothing extra shall be payable by the University on this account.
14. In case of failure of supply of material as per ordered specifications, the University reserve the right to reject the supply order and can forfeit the earnest money deposited by the firm.
15. In case of any dispute, the decision of the Vice-chancellor, Punjabi University, Patiala shall be final and binding on both the parties. Dispute leading to litigation the jurisdiction will be Patiala (Punjab) only.
16. In case of any clarification regarding tender contact Phone No. **0175-3046314-15, 0175-2286570**
17. ANY CORRIGENDUM RELATED TO THE ABOVE SAID PURCHASES WILL BE NOTIFIED ON THE UNIVERSITY WEBSITE. Please keep on referring to the website regularly for latest notifications. <http://tenders.punjabiversity.ac.in>
18. **Project related specific conditions have been mentioned in the technical specifications also.**

Director  
University Computer Centre  
Punjabi University, Patiala.  
01753046314-15, 2286570



## Technical Compliance Sheet

**TOTAL EARNEST MONEY SHALL BE CALCULATED AS THE SUM TOTAL OF ALL THE ITEMS BEING QUOTED BY THE RESPECTIVE VENDOR.**

All interested Manufacturers/ Suppliers/ Authorized Dealers/ OEMs/ System Integrators/ Vendors etc. shall mention make/model of the item in the technical compliance sheet.

**Delivery Time: 30 Day (Maximum)**

### Part 1:

Sr. No.	Specifications	Interested in supplying the item? (Yes/ No)	Make/ Model	Do you meet the specifications? (Yes/No)
1.	Desktop (LENOVO/ HP/ DELL) Commercial segment 8th Gen. Dual Core Processor, Windows 10 home single language (English) 64 Bit upgradable through Campus Licence Agreement, 4 GB RAM DDR4, 1TB HDD, DVD RW, 21" LCD/LED Coloured Monitor, USB Mouse & Keyboard, 3years warranty onsite			
2.	(HP/ Canon/ Epson) Scanner Sheet feed/ADF/ Flatbed scanner- Scanning Resolution up to 600x600dpi, scanning speed-30ppm, ADF capacity-50 sheets.			
3.	(Hp/ Lenovo/ DELL) Laptops Intel Core i5 8th Gen., 8 GB DDR4 RAM, 2TB HDD, 15.6" Display, 2GB Graphic Card, Windows 10 single language (English) 64 Bit upgradable through Campus Licence Agreement, with Genuine laptop Bag., Three years onsite warranty.			
4.	Desktop Intel i7 8 <sup>th</sup> Gen., 8GB RAM, Graphics card, Monitor 27", 2 TB HDD, Keyboard, mouse and 1 KVA Offline UPS with 15-30 min backup (with original windows), 2 years warranty.			
5.	(HP/ Lenovo/ DELL) Laptop Intel Core i7 8th Gen., 8 GB RAM, 1 TB HDD, 15.4" Display, Window 10, Laptop Bag. Three years onsite warranty.			
6.	(HP/ Lenovo/ DELL) Laptop Intel Core i7 8th Gen., 12 GB DDR4-2400 SDRAM, 512GB SSD, 14" Display, 4GB Graphics Card, 2 USB 3.0, 1 USB 2.0, 1 HDMI, Window 10, Laptop Bag. Three years onsite warranty.			
7.	(Epson/HP/Cannon/Ricoh) Inkjet Printer Scanner Copier, with Wi-Fi direct, up to 33 ppm Black and 15 ppm Colour, Copy Size: A4, Letter with Copy resolution of 600 x 600 dpi; Scan resolution 1200 x 2400 dpi, Printing capacity with 4500 pages black and 7500 pages coloured. With 1 year warranty.			
8.	Inkjet Printer with Ink Tanks; Printer, Output - Colour, Pages per minute - 27 pages (Black & White), 15 pages (Colour) ; Paper size-A4/Legal , Warranty - 1 year onsite			

9.	Servers: Xeon gold 6136, RAM128 GB DDR4, Storage single rack 6 to8 TB, Raid 1 and 3, RAM slots 24, 4 TB Firecuda SATA HDD, Redundant power supply , 21.5'' LED, keyboard, mouse, Server Rack 6 U, 24x7 after sales support. Make : HP/DELL/LENOVO			
10.	Native Resolution-WXGA (1280x800) HD720P Brightness=800 ANSI Lumens, Contract Ration=30,000:1 Max. Resolution=UXGA (1600x1200) @ 60Hz, Native Aspect Ratio=16:10, Lamp Life and Type=30,000 Hours LED, Display Type=Single Chip DLP, Chip Size=0.45' DMD Throw Ration=1.55:1, Image size 30"~90" Project Distance 1-3m Project Distance, Project lens F/1.9, f=15.3, Zoom Ratio 1x, offset (Based on Full Image Height) 105% keystone correction=Vertical + 33/ -45, Speakers=2W x 1 , i/o connection Ports = HDMI, Audio-Out, USB Type A for Display and Jpg Reader, portable not more than 500 gms, Noise level 34db/ 30 db, Power Supply AC 100-240V, 50/60Hz Consumption 66W/52W, <0.5 w, Wifi USB Dongle USB type A Built in, Standard Accessories = HDMI-MHL cable, user manual, carrying case, quick start guide warranty card, remote controller, wifi USB dongle USB type A, AC power cord, optional accessories = remote control			

## Part 2:

PROJECT 'A'			
S No.	Item	Do you meet the specifications? (Yes/No)	Make/Model
1	24 Port 10/100 Mbps Unmanaged switch		
2	12 U Rack fully loaded		
3	Jack Panel Fully loaded 24 port		
4	Cat 6 I/O with face plate and SMB		
5	Patch Cords (2meter Length)		
6	Patch Cords (1meter Length)		
7	CAT-6 UTP Cable in meter		
8	Conduit Pipe ( 1 inch) ISI in meter		
9	Conduit Pipe ( 1.5 inch) ISI in meter		

PROJECT 'B'			
S.No	Item	Do you meet the specifications? (Yes/No)	Make/Model
1	Indoor Wireless Access Points AC Series, 4x4:4 Wave 2, min 2.5 Gbps or higher(including the cost of Lifetime Licenses) Minimum 5 Years Warranty		

2	Hardware Controller, Centralized Management of at least 25 APs with Single appliances (At least 21 APs licenses enabled on day one) <b>Note: No Licenses and Hardware Controller required if access points are compatible with Wireless Controller Ruijie WS 6008; available with the University Computer Centre</b>		
3	24-Port 10/100/1000 Mbps + 2-Port SFP 1000 Mbps PoE switch, POE 10BASE-T/100BASE-TX/1000BASE-T: 24,1000BASE-X SFP Ports: 2, Gigabit Managed Switches, Min. 370 watts, Internal/external surge protection on all Ethernet ports. Lifetime Warranty		
4	8-Port 10/100/1000 Mbps + 2-Port SFP 1000 Mbps PoE switch, POE 10BASE-T/100BASE-TX/1000BASE-T: 8,1000BASE-X SFP Ports: 2, Gigabit Managed Switches, Internal/external surge protection on all Ethernet ports, Lifetime Warranty (Min. 5 Years).		
5	OFC SM Six core OS2 standard in meters		
6	LIU 6 Port unloaded		
7	SC Adaptors Single mode		
8	Pigtails Single mode		
9	SC Adaptors Plates		
10	SC-LC Patch Cord Single mode		
11	6 U Rack with accessories		
12	12 U Rack with Accessories		
13	CAT 6 UTP Cable per meter		
14	Jack Panel Fully loaded 24 port		
15	CAT 6 UTP Patch Cord 1 Meter		
16	Cat 6 I/O with face plate and SMB		
17	SFP Module Single mode		
18	Conduit Pipe 1" (ISI) with Clips & Accessories in meters		
19	Splicing per fiber core		
20	Iron Cages for AP		
21	Manual Digging at 3 Feet (in meters including laying charges)		
22	Fiber Patch Cords LC-SC (Multi Mode)		
23	Fiber Pig Tales (Multi Mode)		

**PROJECT 'C'**

S No.	Item	Do you meet the specifications? (Yes/No)	Make/Model
1	Layer 3 Switch with minimum 16 SFP ports, 4 SFP+ and 8 combo ports, including essential fitments like power supply etc. Lifetime warranty (minimum 5 year). Must be fully compatible with HP iMC Network Management software for full alerts and backups etc.,		
2	PoE Layer 2 Switch, 370 W PoE, 24 gigabit ethernet ports, 2/4 SFP ports, Lifetime warranty (minimum 5 year). Must be fully compatible with HP iMC Network Management software for full alerts and backups etc.		
3	Layer 2, Non PoE, 24 gigabit Ethernet ports, 2/4 SFP ports, Lifetime warranty (minimum 5 year). Must be fully compatible with HP iMC Network Management software for full alerts and backups etc.		

PROJECT 'D'			
S No.	Item	Do you meet the specifications? (Yes/No)	Make/Model
1	Indoor access point 802.11b/g/n/ac POE port, Minimum 50metres range, Minimum 300MB data transfer, support Minimum 20 concurrent connections.		
2	CAT-6 UTP Cable in meters		
3	Conduit Pipe ( 1 inch) ISI in meters		
4	CAT 6 I/O with face plate and SMB		

PROJECT 'E'			
S No.	Item	Do you meet the specifications? (Yes/No)	Make/Model
1	Indoor Wireless Access Points AC Series, 4x4:4 Wave 2, min 2.5 Gbps or higher(including the cost of Lifetime Licenses) Minimum 5 Years Warranty.		
2	CAT 6 UTP Cable in meters		
3	Conduit Pipe ( 1 inch) ISI in meters		
4	POE kit compatible to access point		
5	CAT 6 I/O with face plate and SMB		
6	CAT 6 UTP Patch cord 1 meter		

PROJECT 'F'			
S.No	Item	Do you meet the specifications? (Yes/No)	Make/Model
1	Outdoor Wireless Access Point minimum 1.3 GBPS or Above per AP, Concurrent dual-radio dual-band,802.11a/b/g/n/ac, ,WAVE 2, 802.11b/g/n: 2.4GHz to 2.483GHz, Built-in Omni-directional Smart Antenna (4dBi),Spatial Streams 3, Must support 3x3 MIMO for both 802.11ac and 802.11n client, IP Rating IP67,Service Port 10/100/1000Mbps ETH1/PoE IN port (RJ-45 connector) OR Small Form-Factor Pluggable (SFP) port, 1 Console Port(RJ45)as Management Port ,Power Supply of PoE+ (802.3at) or DC Power Input, Minimum 100 clients per AP, Should Support Configuring the authentication mode. Encryption mechanism and VLAN attributes for each SSID, Static IP address or DHCP reservation, Should support IPv6 CAPWAP tunnel,ICMPv6,Manual or automatic configuration of IPv6 address, SNMP v1/v2C/v3, Telnet, SSH, TFTP, and FTP and web management, Operating Temperature: -40°C to 70°C,Wall/pole-mount installation.		
2	Wifi Controller Hardware Based, <b>Centralized Management of at least 100 APs with Single appliances (At least 30 APs licenses enabled on day one)</b> ,Controller should support distributed traffic forwarding allowing traffic to flow directly from source to destination, eliminating needless traffic to pass through the controller, delivering better performance and faster more-responsive applications., User isolation based on AC, AP and WLAN ,Wireless QoS: AP-based bandwidth limiting, WLAN-based bandwidth limiting, Static		

	speed limiting and smart speed limiting based on user, At least 6000 wireless clients with MAC Authentication, AP-based load balancing; AP traffic-based load balancing;5G priority access; RSSI threshold, Roaming across Subnets and VLANs, Multi-Controller Redundancy, clustering, Management of both Indoor and Outdoor AP's (802.11 a/b/g/n/ac),CAPWAP or equivalent encrypted communications between AP and Controller, Dynamic RF channel and power management, Integrated captive portal,802.11 security and encryption,IPv6 management and Static & Dynamic routing, Console and Web management		
3	24-Port 10/100/1000 Mbps + 2-Port SFP 1000 Mbps PoE switch, POE 10BASE-T/100BASE-TX/1000BASE-T: 24,1000BASE-X SFP Ports: 2, Gigabit Managed Switches, Min. 370 watts, Internal/external surge protection on all Ethernet ports. Lifetime Warranty		
4	8-Port 10/100/1000 Mbps + 2-Port SFP 1000 Mbps PoE switch, POE 10BASE-T/100BASE-TX/1000BASE-T: 8,1000BASE-X SFP Ports: 2, Gigabit Managed Switches, Switching Capacity: 20 Gbps, Internal/external surge protection on all Ethernet ports, Lifetime Warranty (Min. 5 Years).		
5	CAT 6 UTP cable (in meters)		
6	Jack Panel Fully loaded 24 port		
7	Cat 6 I/O with face plate and SMB		
8	Patch Cord (1 Meter CAT 6)		
9	Patch Cord (2 Meter CAT 6)		
10	Rack 9 U with accessories		
11	Pole for Camera (Iron cast 5 meter for AP along with AP mounting kits & installation)		
12	Iron angle arms with AP mounting kit & installation		
13	PVC Junction box with pre Moulded cable entry IP 66-67 with RAL7035		
14	Industrial grade flexible roll, Make-LAP (unit: 25 meter roll)		
15	PVC Conduit pipe 1" ISI with clips & bends ( in meters)		
16	Cable Laying (in meters)		
17	Conduit laying (in meters)		
18	Digging Manual at 3 Feet depth (in meters) including laying charges.		