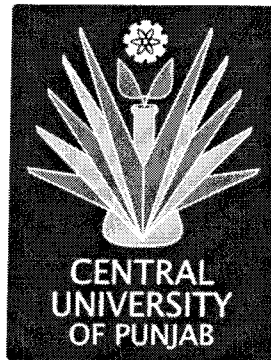


CENTRAL UNIVERSITY OF PUNJAB

Established vide Act No. 25 (2009) of Parliament

Tender No.: P-38(2016-17)



Tender Notice for Supply of Networking items on Rate Contract Basis

Release Date : July 14, 2016

Last Date : August 04, 2016; 3:00P.M.

City Campus, Mansa Road, Bathinda- 151001,
E-mail: registrar@cup.ac.in, Tel: 0164-2864155,

Central University of Punjab, Bathinda

Central University of Punjab invites sealed tenders from Reputed Manufacturers/Authorized Dealers for supply of *Networking items on Rate Contract basis*.

Tender Notice Number	:	P-40(2016-17)
Release Date of the Tender	:	July 14, 2016
Last date for the submission of Tender	:	August 04, 2016; 3:00 P.M.
Opening date of Tender	:	To be notified seperately (In case tender opening day declared holiday for any reason the tender will be opened on next working day at same time.)
Name and Address of the University	:	Registrar, Central University of Punjab, City Campus, Mansa Road, Bathinda – 151001, Punjab, India.
Tel.	:	0164-2864155
E-Mail Address	:	registrar@cup.ac.in
Tender Fee (Non-Refundable)	:	Rs. 100/- drawn in favour of Central University of Punjab, Bathinda in the shape of Demand Draft only.
Earnest Money Deposit(EMD)	:	Rs. 5000/- drawn in favour of Central University of Punjab, Bathinda in the shape of Demand Draft only.

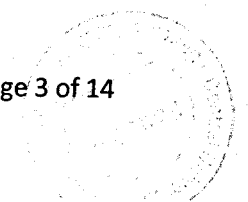
INDEX

Sr. No.	Contents	Annexures
I.	GUIDELINES FOR PREPARATION OF TENDER	Annexure-A
II.	GENERALFINANCIAL TERMS AND OTHER CONDITIONS	Annexure-B
III.	LIST OF ITEMS	Annexure-C
IV.	APPLICATION FORM	Annexure-D
V.	DECLARATION BY SUPPLIER	Annexure-F.
VI.	CHECK LIST	Annexure-F

Annexure-A

GUIDELINES FOR PREPARATION OF TENDER

1. Tender fee along with Earnest Money Deposit (EMD) and all other necessary documents should be submitted for the items. The main envelop should super- scribe: "*Tender for Rate Contract for Networking items, Last date of submission August 04, 2016; 3:00 P.M.*".
2. Blank Tender Forms for the above items along with details can be downloaded from www.cup.ac.in or www.cup.edu.in. The non-refundable application fee must be accompanied with tender.
3. Tenders must accompany a copy of the "*General Financial Terms and Conditions*" section of this document, signed and stamped on each page indicating that they agree to these.
4. Last date of submission of tender along with requisite fee, EMD and all documents is **August 04, 2016**.
5. The DD for application fee, EMD or any other must be drawn in favour of "Central University of Punjab, Bathinda".
6. If the supplier/firm is manufacturer/authorized dealer/sole distributor of any item, the certificate to this effect should be attached.
7. The printed literature and catalogue/brochure giving full technical details should be included with the technical bid to verify the specifications quoted in the tender.



GENERAL FINANCIAL TERMS AND OTHER CONDITIONS

1. Rate should be valid for one year from the date of signing of agreement. Rates/ Prices should remain fixed during the entire period of contract i.e. one year and shall not subject to any variation on any account. However, in case of decrease in prices, the benefit shall be passed on to the University. No claim for compensation or loss due to fluctuations of any reason/ cause will be entertained.
2. **Validity of Contract:** Rate contract initially be valid for one year which may further be extended to another quarter/ half/ one year basis on mutual consent of both the parties.
3. **Prices:** Quoted prices should be firm and FOR Central University of Punjab (CUPB), City Campus, Mansa Road, Bathinda and complete break up of all taxes and duties payable by the university should be clearly defined otherwise it will be presumed that the rates quoted are inclusive of all these charges and nothing extra will be paid. **Special Discount/ Rebates, whichever applicable to an educational Institution, may also be specifically indicated.**
4. **Payment terms:** 100% payment will be made through RTGS/by cheque after delivery and demonstration of goods in good condition and satisfactory inspection report of the Indenter. No advance payment shall be made of any kind by Central University of Punjab.
5. Entering into Rate Contract does not bind Central University of Punjab, to place any order on the agreed firms.
6. Party qualified for CUPB Rate contract is bound to supply any single item/all items given in the Price list as per the Terms & Conditions. Inability shown for the supply of goods by the party after placement of order will lead to forfeiture of their Bank guarantee.
7. **Taxes:** All kinds of Statutory Taxes will be paid by the purchaser on the basis of supportive Documentary Evidence.
8. **Validity:** Tenders/Quotations should be valid for three months from the last date of its submission.
9. **Opening of Tenders:** Tenders complete in all respect will only be considered. Tenders/Quotations will be opened at the University campus as per schedule to be notified separately in the presence of bidders whosoever may wish to be present.
10. **Incomplete or Misleading Tenders / Quotations:** Tenders/Quotations received late or incomplete in any respect/ misleading without earnest money& without required documents will out rightly be rejected. No responsibility with regard to postal delays due to any reason whatsoever will be accepted.
11. **Right to reject:** The CUPB reserves right to accept/reject any or all the Tenders/Quotations at any time without assigning any reason.
12. **Delivery Schedule:** Delivery schedule should be clearly mentioned in the Tenders/Quotations.
13. **Penalty for non/late delivery of material:** If the supplier fails to deliver the material/equipment within the stipulated delivery period of the Supply/Purchase order/contract the same is liable to pay

5

penalty charges at 0.5% of the cost of undelivered goods/ services per week, not exceeding maximum limit of 10% of the cost of complete unit of undelivered equipment/material so delayed.

14. **Security Deposit:**

a. You are required to submit within 30 days security deposit amounting to Rs. 15000/- either in demand draft in favour of the "Central University of Punjab, Bathinda" or in the form of Bank Guarantee (BG) for the Contract Period.

b. On faithful execution of the Supply/Work order/contract on all respects, for the agreed period the security deposit of the contractors/supplier shall be released.

c. In the event of default on your part in faithful execution of Supply/Work order/contract, the security deposit shall be forfeited by an order of the Registrar of the University. The forfeiture of security deposit shall be without prejudice to any other right arising or accruing to the university under relevant provisions of the Supply/Work Order/contract like penalty/damages for delay in delivery provisions under Negligence & default clause including suspension of business dealings with the university for a specific period.

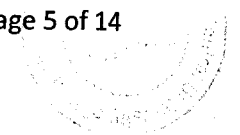
15. **Civil Suit Jurisdiction:** All legal proceedings in connection with this Supply/Purchase order/Contract shall be subject to the territorial jurisdiction of the local Civil Courts, as per Indian Laws, at Bathinda only.

16. **Cancellation :** The University reserves the right to cancel the Supply/purchase order as a whole or in part at any time or in the event of default on the part of the Supplier prior to the receipt of information regarding taking in hand of the manufacture of material against the Supply/Purchase order/dispatch of material to the consignee.

17. University reserves the right to enter into parallel rate contract with more than one firm.

18. Bids received after the specified date and time shall not be considered.

19. Conditional bids shall not be considered.



Annexure-C

LIST OF NETWORKING ITEMS

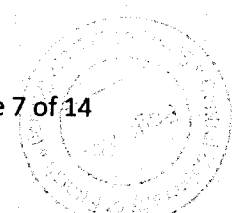
S.No.	Name	Technical Specification
1.	Wi-Fi Access Point	ANNEXURE - I
2.	Switch 24 Port	ANNEXURE - I
3.	Switch 8 Port	ANNEXURE - I
4.	Cat 6 UTP Network Cable	Cat 6 4pr UTP Cable 305m
5.	Patch Panel 24 Port	UTP 24-port Patch Panel, loaded
6.	RJ-45 Connectors	RJ-45 Connector Box of 100 Nos.
7.	Patch Cables	2 metre standard
8.	Flexible Pipes 1.5 Inch	Standard
9.	Complete I/O with Box	Complete I/O box, jacks, screws clumps e.t.c
10.	9U Network Rack	Depth – 23 Inches (Maximum mounting depth 20.5 Inches) Width – 23.75 Inches Rail Width – 19 inch EIA Compliant Height – 20.50 inches Fan assembly kit Rack Screws Cage nuts Glass front door with built in lock
11.	LAN Tester	Display: 18 LEDs: 9 red and 9 green, 9 LEDs on remote module. Battery: Standard 9 volt battery, NEDA 1604A, JIS 006P, IEC 6F22 Low battery indication: The LED indicator will not turn on when Batt. Button is pushed. Operating Environment: 0-40 degree Celsius, 10 to 70 % RH
12.	Crimping Tool	RJ-45 , RJ-11
13.	Digital Multimeter	-2000 counts LCD display -Tests AC/DC voltage, DC current and resistance -Type-k thermocouple contact temperature measurement -Date hold, display backlight -Transistor check, diode and continuity test -Display: 1999 counts
14.	Laptop screw driver	Stanley Laptop Screwdriver set. Durable plastic storage case.
15.	Media Convertor	1000BASE-T to 1000BASE-LX Gigabit single mode fiber. Maximum distance 10 km. 1 RJ-45 Female port and 1 fiber port (SC Connector). Fiber Operating Mode: Half/Full-Duplex. Maximum Data Transfer Rate: 1000 Mbps (1 Gbps)

Specifications

ANNEXURE - I

1. Wi-Fi Access Points (Indoor)

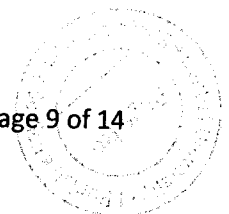
S.No.		Compliance
1.	Should support IEEE 802.11a/b/g/n/ac at 300 Mbps/ 450 Mbps for Wireless LAN and IEEE 802.3 10/100/1000 Base TX for Ethernet LAN.	
2.	Should support minimum 50 concurrent Users	
3.	Should support minimum 2 x 2:2 multiple-input multiple-output (MIMO).	
4.	Should support 2.4 and 5 GHz dual radio.	
5.	Should support authentication (MAC Level Control).	
6.	Should support USB : 1 x USB 2.0	
7.	Should have Dynamic data rate switching with auto fallback capability.	
8.	Should support SNMP, Telnet or Web, and FTP or TFTP.	
9.	Should support IP and DHCP protocols.	
10.	Should support NAT and ACL control.	
11.	Should support bridging.	
12.	Should support Self Healing, Self forming, dynamic path selection for Wireless MESH function.	
13.	Should support QoS – WMM, 802.11e.	
14.	Should support security features i.e. WEP, WPA-TKIP, WPA2, AES, EAP-TLS, 802.11i.	
15.	Should support Dynamic Frequency Selection/TPC	
16.	Should support the rejection of RF and noise interference.	
17.	Should support 802.1x standard.	
18.	Power supply 220 +/- 10% and should support power over Ethernet (PoE) standard 802.3af with minimum one PoE Ethernet port.	
19.	LED indications for Power, LAN & Wireless activity.	
20.	Operating Temperature range 0 – 50 degree C.	
21.	Temperature Storage: -20 degree C to 80 degree C	
22.	Should have FCC, CE Certifications	



2. Switch (24 Port Layer-2 Gigabit)

S.No.		
1.	Should support 24 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only	
2.	Should support minimum of 2 Gigabit Ethernet SFP ports.	
3.	Should support 1 dual-personality (RJ-45 or USB micro-B) serial console port	
4.	Should support 19 inch Rack mount	
5.	Should be IPv6 Ready Certified	
6.	Should support throughput of minimum 40 million pps (64-byte packets)	
7.	Should support switching capacity of minimum 50 Gbps	
8.	Should support MAC address table size of minimum 15000 entries	
9.	Operating temperature (0 degree C to 45 degree C)	
10.	Storage Temperature (-40 degree C to 70 degree C)	
11.	Should support safety certifications - UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1	
12.	Should have 3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange	
13.	Should support Quality of Service: Traffic prioritization (IEEE 802.1p), Simplified QoS configuration (Port based, VLAN based), Class of Service (CoS), Rate limiting, Layer 4 prioritization, Flow control	
14.	Should support Management features : Choice of management interfaces (GUI, CLI, SNMP v1, v2c, v3), sFlow or equivalent, IEEE 802.1AB Link Layer Discovery Protocol (LLDP), Logging, Port mirroring, RMON (remote monitoring) alarms events and history records, Dual flash images, Multiple configuration files, Network Time Protocol or equivalent	
15.	Should support Layer 2 switching : VLANs (minimum 256 VLANs and minimum 3000 VLAN IDs), Jumbo packet support, GARP VLAN Registration Protocol	

16.	Should support security features: Hardware based Access control lists (ACLs), Source-port filtering, RADIUS/TACACS+, Secure Sockets Layer (SSL), Port security, Multiple user authentication methods (IEEE 802.1X, Web-based authentication, MAC- based authentication), DHCP Protection, Dynamic ARP Protection, IP Source guard, STP Root Guard	
17.	Should support Resiliency and high availability: Port trunking and link aggregation, IEEE 802.1s Multiple Spanning Tree	
18.	Should support Connectivity : IPv6 host, Dual Stack (IPv4/IPv6), MLD Snooping	
19.	Should support Auto-MDIX	
20.	Should support Convergence : LLDP-MED (Media Endpoint Discovery), IP multicast (data-driven IGMP), IEEE 802.1AB Link Layer Discovery Protocol (LLDP), Voice VLAN, IP multicast (data-driven IGMPv3)	
21.	Should support DHCP Server enabling a convenient deployment option for the assignment of IP addresses in networks that do not have a dedicated DHCP server.	
22.	Should support Local Proxy Address Resolution Protocol (ARP) works in conjunction with Private VLAN Edge to minimize broadcasts and maximize available bandwidth	
23.	Should support Link Aggregation Protocol (LACP)	
24.	Support for Detection of Unidirectional Links and to disable them to avoid problems such as spanning – tree loops	
25.	Should support IPv4 and IPv6 static routing	

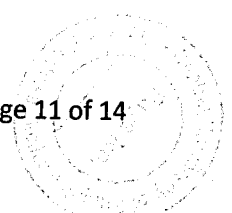


3. Switch (8 Port Layer-2 Gigabit)

S.No.		
1.	8 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only	
2.	Should support minimum of 2 dual-personality ports	
3.	Should support 1 dual-personality (RJ-45 or USB micro-B) serial console port	
4.	Should support 19 inch Rack mount	
5.	Should be IPv6 Ready Certified	
6.	Should support throughput of minimum 13 million pps (64-byte packets)	
7.	Should support switching capacity of minimum 15 Gbps	
8.	Should support MAC address table size of minimum 15000 entries	
9.	Operating temperature (0 degree C to 45 degree C)	
10.	Storage Temperature (-40 degree C to 70 degree C)	
11.	Should support safety certifications - UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1	
12.	Should have 3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange	
13.	Should support Quality of Service: Traffic prioritization (IEEE 802.1p), Simplified QoS configuration (Port based, VLAN based), Class of Service (CoS), Rate limiting, Layer 4 prioritization, Flow control	
14.	Should support Management features : Choice of management interfaces (GUI, CLI, SNMP v1, v2c, v3), sFlow or equivalent, IEEE 802.1AB Link Layer Discovery Protocol (LLDP), Logging, Port mirroring, RMON (remote monitoring) alarms events and history records, Dual flash images, Multiple configuration files, Network Time Protocol or equivalent	
15.	Should support Layer 2 switching : VLANs (minimum 256 VLANs and minimum 3000 VLAN IDs), Jumbo packet support, GARP VLAN Registration Protocol	
16.	Should support security features: Hardware based Access control lists (ACLs),	

	Source-port filtering, RADIUS/TACACS+, Secure Sockets Layer (SSL), Port security, Multiple user authentication methods (IEEE 802.1X, Web-based authentication, MAC-based authentication), DHCP Protection, Dynamic ARP Protection, IP Source guard, STP Root Guard	
17.	Should support Resiliency and high availability: Port trunking and link aggregation, IEEE 802.1s Multiple Spanning Tree	
18.	Should support Connectivity : IPv6 host, Dual Stack (IPv4/IPv6), MLD Snooping	
19.	Should support Auto-MDIX	
20.	Should support Convergence : LLDP-MED (Media Endpoint Discovery), IP multicast (data-driven IGMP), IEEE 802.1AB Link Layer Discovery Protocol (LLDP), Voice VLAN, IP multicast (data-driven IGMPv3)	
21.	Should support IPv4 and IPv6 static routing	

Sl. No.	Description	Suggested Brand
1	Wi-Fi Access Point	D-Link, Sophos, any other similar brand
2	Switch 24 Port	Cisco, HP, D-Link, any other similar brand
4	Cat 6 UTP Networking cable	Schneider-Electric
13	Digital Multimeter	Mextech or equivalent



Annexure-D

APPLICATION FORM

To be Filled Completely and Signed

1. Contact details of the head office of proposing firm:
 - a. Name-
 - b. Address-
 - c. Tel. No.-
 - d. Fax -
 - e. Email -
 - f. Web site (If any)

2. Name and full address of local office of proposing firm nearest to Bathinda:
 - a. Name-
 - b. Address-
 - c. Tel. No.-
 - d. Fax -
 - e. Email -
 - f. Web site (If any)

3. Name and full address of manufacturer:
 - a. Name-
 - b. Address-
 - c. Tel. No.-
 - d. Fax -
 - e. Email -
 - f. Web site (If any)

4. Name of advising bank and account number:

5. SWIFT Code:

6. PAN and TAN Number:

7. Manufacturing type (tick mark):
 - i. Imported
 - ii. Indigenous
 - iii. Both

8. Country(s) of origin:

9. Any other relevant information:

Annexure-E

DECLARATION BY SUPPLIER

“It is certified that I/we have carefully read and understood the entire general, special as well as specific terms and conditions of these documents and agree to abide by all of these. All the information and commitments provided with the quotations are truthful and binding on the firm.”

Place:

Signature of Authorized Person

Date:

Designation

Seal



Annexure-F**CHECK LIST**

(TO BE FILLED COMPLETELY & PLACED IN ENVELOPE)

Sr. No.	Points to be verified	Yes/ No
1	Technical specification compliance sheet	
2	EMD	
3	Tender Fee	
4	Photocopy of PAN and TAN card	
5	User list and certificates issued by clients	
6	Copy of income tax return certificate	
7	Dealer authorization certificate	
8	All other certificates as asked for in tender document a) Certificate indicating country of manufacture b) Sales tax registration certificate c) Copy of "General Terms and Conditions" signed and stamped on each page	

Place:**Signature of Authorized Person****Date:****Designation****Seal**