

THAPAR INSTITUTE OF ENGG. & TECHNOLOGY

(Declared as Deemed-to-be-University u/s 3 of the UGC Act, 1956)

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Enquiry No. TIET/CS/GK/17-18/17492

Dept: CHED

Date: February 12, 2018

Sub: Request for Quotation(s) for LAN deployment in faculty cabins

Dear Sir

We shall be grateful if you kindly let us have your lowest quotations for the following materials. THE QUOTATIONS SHOULD REACH THE UNDERSIGNED LATEST BY 20.02.2018 through courier or e-mail accompanied by appropriate illustrative literature/catalogues/pamphlets/technical details and specifications as the case may be. On the quotation envelope the Enquiry Number & Date should be mentioned on the top.

Sr. No.	Item Name with complete Specifications	Qty
1.	LAN DEPLOYMENT IN RENOVATED CABINS OF CHED (Specification sheet attached) Note: Kindly send the technical & commercial quotes separately. Single quote will not be entertained.	As per list attached

The offer sent by you must furnish the following details:

- Name, Make & specifications of each item.
- Cost of the item with MRP (mandatory).
- Educational discount if any.
- Validity of quotation should be at least 90 Days.
- GST (%) we do not provide Form C.
- Delivery FOR TIET, Patiala.
- Insurance, Freight & other charges if any.
- Minimum Delivery Period.
- Payment terms. Net 30 days against delivery & satisfactory installation at TIET, Patiala.
- Guarantee / Warranty Information.

Regards,

Sd/-

Head Commercial

CHED Renovated faculty cabins

Sr. No	Description Details	Units	Preffered Make	QTY.
1	Laying of Channel(Per Meter)	As per Actual	Service Item	50
2	Batton/Conduit/PVC 1 inch pipe to lay CAT6 cable including any extra installation material required (Per Meter)	As per Actual	ISI Marked	100
3	24 port layer 2 managed Switch 10/100/1000 ports with 2 or more SF support, 1U form factor, rack mounting kit,QOS Support VLAN support , three year warranty (Detail specification attached)	As per Actual	CISCO/BROCADE/Extreme	1
4	Cat 6 Patch Cable 1 Meter pre crimped	PER UNIT	Molex/AMP	27
5	24 Port CAT6 Rack Mount Patch Panel - 1U	As per Actual	Molex/AMP	1
6	Termination of Jack Panel	As per Actual	Service Item	1
7	Laying of cat 6(Per Meter)	As per Actual	Service Item	1500
8	CAT 6 IO with Surface mounting kit	As per Actual	Molex/AMP	26
9	Termination of Information Outlet(Feruling)	As per Actual	Service Item	36
	All items should have 3 years on site warranty			
	Items quantity can vary and be considered as actuals.			

Pranlal
08/02/18

Specifications for Layer 2 24-Port 1G Switch, with 1G Uplinks:Stackable Access Switch with 24 100/1000 RJ45 Ports and 4 1G SFP Ports
Brocade/Cisco/Extreme

Sl. No	Specification Required	Compliance Yes / No	Remarks
1.0	<u>Product details- Please specify</u>		
1.1	Make, Model No with part no.		
2.0	<u>Architecture</u>		
2.1	Switch should offer Wire-Speed and Non-Blocking Switching.		
2.2	Switch should have 24 10/100/1000 RJ45 Ethernet..		
2.3	Switch should have additional 4 1G SFP ports (over and above 24 ports of 10/100/1000) with support for SX, LX, TX and Long Haul Transceivers.		
2.4	Should have Flash ROM of 32MB or more.		
2.5	Should have DRAM of 128MB or more.		
3.0	<u>Performance & Scalability</u>		
3.1	Should provide Non-Blocking switch fabric capacity of 56 Gbps or more.		
3.2	Should provide wire-speed packet forwarding of 41 Mpps or more.		
3.3	Should support 8,000 MAC addresses or more.		
3.4	Should support min 32 STP instances		
3.5	Should support min 29 trunk groups with min 8 ports per trunk group		
4.0	<u>Layer 2 Features</u>		
4.1	Should support 4000 VLANs and 4000 VLAN IDs		
4.2	Should support 802.1Q with tagging		
4.3	Should support 802.1ad (Q-in-Q) tagging		
4.4	Should support Dual-mode VLANs		
4.5	Should support VTP/GVRP or equivalent		
4.6	Should support 802.1p Quality of Service (QoS) with Strict Priority (SP), Weighted Round Robin (WRR) and Combined SP and WRR providing 4 priority queues		
4.7	Should support ACL-based rate limiting QoS		
4.8	Should support 802.1D Spanning Tree Protocol (STP) , 802.1s Multiple Spanning Tree (MSTP), 802.1W Rapid Spanning Tree (RSTP), PVST/PVST+ and PVRST+		
4.9	Should support Energy Efficient Ethernet IEEE 802.3az (hardware Ready)		
4.10	Should support Unidirectional Link Detection (UDLD) or equivalent		
4.11	Should support Metro Ring Protocol or Ethernet Ring Protocol or equivalent for faster ring convergence		
5.0	<u>Stacking and Virtual Chassis Functionality</u>		
5.1	Should support flex stack or similar technology to stack up to 4 switches or more. Each switches mandatorily to be quoted with virtual stacking license and stacking cable / transceiver from day-1 to enable fail-safe stacking		
5.2	Should support Layer 2 stacking rapid failover and switchover		
6.0	<u>Security Features</u>		
6.1	Should support 802.1X port security		
6.2	Should support 802.1X authentication RADIUS timeout action		
6.3	Should support 802.1X dynamic assignment for ACL, MAC filter, and VLAN		
6.4	Should support Secure Copy (SCP)		
6.5	Should support Secure Shell (SSH) v2		

6.6	Should support Web Authentication		
7.0	Management Features		
7.1	Should support Web-based management HTTPS/SSL		
7.2	Should support manageability using an Element or Network Management System. This EMS or NMS should be able to configure and monitor the switch.		
7.3	Should support Remote monitoring (RMON)		
7.4	Should provide Industry-standard Command Line Interface (CLI), including support for Serial and Telnet access, Alias command, On-line help, Command completion, Scroll control, Line editing, Searching and filtering output and Special characters		
7.5	Should support SNMP v1, v2, v3		
7.6	Should support SNMP V3 traps		
8.0	IPv6 Management Features		
8.1	Should support for Link-Local IPv6 Address		
8.2	Should support IPv6 Access List (management ACLs)		
8.3	Should support IPv6 copy, IPv6 ncopy, IPv6 debug, IPv6 ping & IPv6 traceroute		
8.4	Should support IPv6 Logging (Syslog)		
8.5	Should support IPv6 RADIUS		
8.6	Should support IPv6 SNMP Traps		
8.7	Should support IPv6 SNTP		
8.8	Should support IPv6 TACACS/TACACS+		
8.9	Should support IPv6 Telnet, IPv6 FTP		
9.0	Physical Attributes, Power Supply and Fans & OEM Attributes		
9.1	The switch should be 19" Universal EIA (Telco) rack mountable and should be provided with a rack mount kit.		
9.2	The switch should not be more than 1 Rack Unit (RU) in height.		
9.3	Should support 100-240VAC, 50/60 Hz internal universal power; Indian type power cord.		
9.4	Should preferably be a fanless model		
9.5	Comprehensive onsite warranty including TAC support, software patches and updates for 3 years should be included in the quote.		