



**भारतीय कार्पेट प्रौद्योगिकी संस्थान**  
( आई एस ओ 9001 : 2008 प्रमाणित )  
विकास आयुक्त (हस्तशिल्प), वस्त्र मंत्रालय, भारत सरकार, के अधीन  
**INDIAN INSTITUTE OF CARPET TECHNOLOGY**  
( ISO 9001 : 2008 Certified )  
Under the aegis of Development Commissioner (Handicrafts), Ministry of Textiles, Govt. of India  
Affiliated with APJAKTU, Lucknow & Approved by AICTE, Govt. of India

No.12/Store.Pur/1/IICT/2005

Dated: 14.06.2023

To,  
Notice Board &  
Institute Website : [www.iict.ac.in](http://www.iict.ac.in)  
IICT, Bhadohi

Subject: **Inviting Quotation for supply & Installation of Networking / Internet connection for 16 new desktop and 16 old Desktop total 32 computers in CAD Lab at IICT, Bhadohi**

Sir,

You are requested to give quotation for the supply of below mentioned item at IICT, Bhadohi on urgent basis.

S. No.	Item /Machine with Specifications	Quantity (No.)	Rate(Rs.)	Amount (Rs.)
1	24 Ports Web Managed Switch – D-Link/Cisco/LinkSys	2 Nos.		
2	24 Port fully Loaded Patch Panel D-Link/Cisco/LinkSys	2 Nos.		
3	12 U Network Rack D-Link/Cisco/LinkSys	1 Nos.		
4	1 meter Patch Cord -Ethernet Cat 6 Link/Cisco/LinkSys	48 Nos.		
5	2 meter Patch Cord -Ethernet Cat 6 Link/Cisco/LinkSys	48 Nos.		
6	Ethernet Cat 6-3 UTP Cable 305 Mtr , Box D-Link/Cisco/LinkSys	3 Nos.		
7	LAN Input -output Box RJ45 CaT6E LAN input-output Network Keystone Jack+ Gang Box+ Dual Port Face Plate ( Combo)	24 Nos.		
8	PVC Casing Caping 2 meter - Water Proof, Coorosion Resistant, 25/32 MM Size PVC Material	100 Nos.		
9	PVC Wall Plug, Steel Wooden Screw and Accessories – <ul style="list-style-type: none"><li>1.5 inches (+) head in Pack of 50 pieces of steel Crews</li><li>50 mm Rim less wall plug Sleeves with anti-rotation lock for fixing of screw</li></ul>			
10	Installation and commissioning Charges- Laying ,fitting ,Hanging, Configuring networking items etc.			
			Add :....%GST	
			G.Total	

1. Technical Specification for networking components details attached as per **Annexure1** ( 3Pages)
2. Taxes etc., if any should be mentioned.
3. The payment term may be mentioned.
4. The Quotation must reach this office latest by 20.06.2023.
5. Submit the copy of Past Experience of similar type of works along with this quotation.
6. Start the work within 3 days and the work will be complete within 15 days after issue of Purchase Order.

**(Dr.R.Karmakar)**  
HOO,IICT



# Technical Specification for networking components

Particulars / Specifications		Compliance (Y / N)
<b>1. 24 PORT Web Managed Switch</b>		
Form Factor	1U Rack Mountable	
PoE Ports	24 x 10/100/1000BASE-T PoE ports	
PoE Standards	802.3af (PoE) and 802.3at (PoE+)	
SFP Ports	4 x Gigabit RJ45/SFP Combo ports	
PoE Power Budget	>=193 W	
CPU RAM	128 MB DDR3	
Flash Memory	32 MB	
Switching Capacity	56 Gbps	
Port Standards & Functions	IEEE 802.3u 100BASE-TX Fast Ethernet (twisted-pair copper) IEEE 802.3u 100BASE-FX 100 Mbps over fiber optic IEEE 802.3ab 1000BASE-T Gigabit Ethernet (twisted- pair copper) IEEE 802.3z 1000BASE-X 1 Gbps over fiber optic IEEE 802.3az Energy Efficient Ethernet (EEE) IEEE 802.3x Flow Control IEEE 802.3af/at compliance (for PoE ports on PoE models)	
MAC Address Table Size	8K Entries	
Remote Management Protocol	Web-based GUI, SNMP Supports v1/v2c/v3, Time setting SNTP, Backup/upgrade firmware Smart Wizard, DHCP Auto Configuration	
LED Indicators	Power, Console, Link/Activity/Speed per port, PWR Max, Fan Error	
Green v3.0 Technology	Power Saving by: <ul style="list-style-type: none"> <li>• Link Status</li> <li>• Time-based PoE: PoE ports can be turned on/off by port or system through schedule</li> <li>• System hibernation</li> <li>• Port shut off</li> <li>• Cable length detection</li> </ul>	
L2 Feature	MAC Address Table- 8K entries, IGMP Snooping, Loopback Detection, Port Mirroring- One-to-One/ Many-to-One/ Supports Mirroring for Tx/Rx/Both, Spanning Tree Protocol- 802.1D STP/ 802.1W RSTP/ 802.1s MSTP	
L3 Feature	IP interface- Supports 4 interfaces, IPv6 Neighbor Discovery (ND), Static routing- 124 IPv4 static route entries, 50 IPv6 static route entries	
Security	DoS attack prevention, IP-MAC-Port Binding (Smart Binding), Traffic segmentation, 802.1X Port-based Access Control, Port Security - Supports up to 64 MAC addresses per port, ARP Spoofing Prevention- Max. 127 entries, DHCP Server Screening	
Warranty	Lifetime, Next Business Day hardware replacement	
<b>2. 24 Port Fully loaded Patch Panel</b>		
Ports	24 Port Loaded	
Rack Height	1U Rack Mountable	
Mounting	With Mounting Bracket Kit	
Material	Cold Rolled Steel, Powder coated	
Modular Plug Fitting	Individual ports for loaded	
Cable Management	Rear Side Cable Management Bar	
Suitable Cable Category	Cat 5e, Cat 6, Cat 6A UTP Keystone	
Plug Insertion Durability	≥ 750 mating cycles	
<b>3. Network Rack (12U)</b>		

Mount Type	Wall Mount	
Material	CRCA Steel Welded, Powder coated	
Front Door	Lockable Toughened Transparent Glass	
Rack Depth	Upto 500 mm	
Static Load	25 kgs	
Fan	2 Fan for heat dissipation	
PDU	Rack Mount Power Strip with 06 socket with power indicator and Fuse Protection	
Tray	1U Cantilever tray	
Cable Manager	2U Horizontal Cable Manager	
Other Feature	Cable entry provision on top and bottom	
<b>4. Ethernet Cat6 Patch Cord (1 Mtr.)</b>		
Connector Type	RJ45 Modular Plug	
Cable Type	Ethernet	
Data Transfer Rate	1 Gbps	
Size	1 meter	
Connector Gender	Male-to-Male	
Standard	TIA/EIA-568-C.2 Category 6, ISO/IEC Class E	
Conductor	24 AWG Multi-strands	
Conductor Material	Bare Copper	
Outer Jacket	FR-PVC	
Applications	PoE, 1000BASE T	
Durability	750 Times	
Cable Length	1m	
<b>5. Ethernet Cat6 Patch Cord (2 Mtr.)</b>		
Connector Type	RJ45 Modular Plug	
Cable Type	Ethernet	
Data Transfer Rate	1 Gbps	
Size	2 meter	
Connector Gender	Male-to-Male	
Standard	TIA/EIA-568-C.2 Category 6, ISO/IEC Class E	
Conductor	24 AWG Multi-strands	
Conductor Material	Bare Copper	
Outer Jacket	FR-PVC	
Applications	PoE, 1000BASE T	
Durability	750 Times	
Cable Length	2m	
<b>6. Ethernet Cat 6 UTP Cable (305 Mtr.)</b>		
Standard	TIA/EIA-568-C.2 Category 6, ISO/IEC Class E	
Connector Material	Bare Copper	
Conductor	23 (AWG) Solid	
Insulation Material	HDPE	
Outer Jacket	FR-PVC	
Pair Count	4-pair unshielded twisted pair (UTP) cable	
Cable Type	Ethernet	
Data Transfer Rate	1 Gbps	
<b>7. RJ45 CAT6E LAN I/O Network Keystone Jack + Gang Box + Dual Port Face Plate (Combo)</b>		
Standard	CAT6 / CAT6E	

Colour	Off White / White / Ivory	
Type	2x Keystone Jack + 1x Gang Box + 1x Dual Socket Face Plate	
Face Plate Material	Polycarbonate, UL94V-2 transparent color	
Back Box Material	ABS, UL94-HB	
Certificate	RoHS Certified	
<b>8. PVC Casing Capping (2 Mtr.)</b>		
Feature	Water Proof, Corrosion Resistant	
Material	Flame Retardant (FR) PVC, Highly durable	
Size	25/16 MM	
Certificate	ISI Marked as per IS 14927	
Color	Ivory/ Cream/ Off white	
Lock Type	Double Lock	
<b>9. PVC Wall Plug, Steel Wooden Screw and Accessories</b>		
Length	1.5 inches (+) Head in Pack of 50 pieces of steel screws	
Length	50 mm Rim Less wall Plug Sleeves with anti-rotation lock for fixing of screws	
<b>10. Installation and Commissioning Service</b>		
Laying of Casing Capping		
Laying of Cat 5 Cable		
Installation of Network Rack		
Installation and Configuration of Network Switch and Patch Panel		
Fixing of I/O Boxes		
Punching and Termination of Cat 6 Cable on both ends		
Demonstrate Work		

- Vendor to provide detailed features, manuals of the product offered
- Vendor to clearly mention the list of contents of the supply, conditions of delivery, installation and onsite support (minimum 1 year)
- **Vendor should provide the specifications strictly in the above format adding 3<sup>rd</sup> column mentioning the specification of each and every item listed in the above sheet. Any additional information may be provided separately.**