



मालवीय राष्ट्रीय प्रौद्योगिकी संस्थान जयपुर  
MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

**LIMITED TENDER ENQUIRY**

Enquiry No. F5(654)ST/MNIT/CCC/2018

Date: 03.04.2019

Firm's Name & Address

Date of Tender Opening: 18.04.2019

M/s \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Place of Submission of tender in tender box at:**

Deputy Registrar (S&P)  
Jawahar Lal Nehru Marg, Malviya Nagar  
Jaipur, Rajasthan 302017

(The tender would be opened at three pm on the date of tender opening above, at the address mentioned above)

Please submit on or before 3:00 pm on the date of tender opening, your quotation for the following goods, in accordance with the terms and conditions printed overleaf, in a sealed cover, marked on top with – Enquiry No; Date of Tender Opening.

Yours Sincerely,

(R.K. Manjhiwal)  
Deputy Registrar (S&P)

Sr.No.	Description of Item		Quantity	Unit	Rate	GST	Amount (Rs.)
	Catalogue, Part/Model No.	Specifications					
01	Purchase of Networking Items (As per attached annexure -1 <sup>st</sup> )						
	Total Ex-Works Price						
	(-) LESS: Discount ___% (if any)						
	Net Ex-Works Price						
	(+ ) Packing & Forwarding Charges						
	(+ ) Transportation Charges						
	GRAND TOTAL						

(Grand Total in Rupees \_\_\_\_\_)

Delivery Schedule:

## **Undertaking by Supplier**

I/ We engage to supply the material(s) to your office and comply the following:

1. Tender schedule and technical specification indicated
2. Item/tender specific conditions for this tender.
3. Terms and conditions printed overleaf.
4. I/we confirm that set off for the GST, etc. Paid on the inputs have been taken into consideration in the above quoted price and further agree to pass on such additional duties as sets offs as may become available in future under GST, etc.
5. This offer is valid for 90 (ninety) days from the date of opening of the tender.
6. That we have not been debarred by any Government/Undertaking.
7. That the rates quoted are not higher than the rates quoted for same item to any Government Dept./Autonomous body/ Undertaking.
8. That the bid submitted by us is properly sealed and prepared so as to prevent any subsequent alteration and replacement

Place & Date:

Signature & Seal  
Name of Authorised Signatory  
Tel. No./Fax. No./Mobile No.  
Email Id:

### **Terms and Conditions of Limited Tender**

1. The quotation must be in the form furnished by MNIT Jaipur and should be free from corrections/erasures. In case there is any unavoidable correction it should be properly attested. If not the quotation will not be considered. Quotation written in pencil will not be considered.
2. Quotation will be opened on due date at 3.00 pm at the indicated venue in presence of the tenderers or their representatives who may wish to be present.
3. The Director, MNIT Jaipur reserves the right to accept the offer by individual items and reject any or all tenders without assigning any reason thereof and does not bind itself to accept lowest quotations.
4. Manufacturer's name and country of origin of materials offered must be clearly specified.
5. Please quote whether your organisation is large scale industry or small scale industry. If you have NSIC/MSE/MSI/DGS&D Certificate, please attach it to the quotation. Mention your registration details.
6. Complete details and ISI specification if any must accompany the quotation. Make/brand of the item shall be stated wherever applicable. If you have got any counter offer as suitable to the material required by us, the same may be shown separately.
7. If required, the samples must be submitted where specified along with the quotations. Samples must be carefully packed, sealed and labeled clearly with enquiry number, subject and sender's name for easy identification. Rejected samples will be returned at your cost if insisted.
8. All drawings sketches and samples, if any, sent along with this enquiry must be returned along with quotations duly signed.
9. All supplies are subject to inspection and approval before acceptance. Manufacturer/ supplier warranty certificates and manufacturer/Government approved lab test certificate shall be furnished along with the supply, wherever applicable.
10. The Government of India reserves the right to modify the quantity specified in this enquiry.

11. The prices quoted should be firm till the supplies are completed. Please quote the rates in words and figures. Rates quoted should be free delivery at destination including all charges otherwise the quotation is likely to be rejected. Prices quoted for free delivery at destination will be given preference. If there is no indication regarding the FOR, in the quotation, then it will be considered as FOR destinations. Price quoted should be net and valid for a minimum period of three months from the date of opening of the quotation.
12. The rate of GST, other statutory payments etc. should be clearly indicated wherever chargeable. This office is not eligible to issue "C" or "D" Form. However, the concessional rate of GST is applicable to this Institute for Research related purchase. Exemption Certificate issued to Institution will be provided to avail GST exemption. Delivery period required for supplying the material should be invariably specified in the quotation.
13. In case your quotation is accepted and order is placed on you, the supply against the order should be made within the period stipulated in the order. The Director, MNIT Jaipur reserves the right to recover any loss sustained due to delayed delivery by way of penalty.
14. You shall indicate in the quotation the bank detail of firm, GST Number and permanent Income tax Number.
15. Failure to supply the material within the stipulated period shall entitle Director, MNIT Jaipur for the imposition of penalty without assigning any reasons @ 1% (One percent) of the total value of the item covered in order as penalty per day subject to a maximum of 10% (Ten percent) unless extension is obtained in writing from the office on valid ground before expiry of delivery period.
16. If the deliveries are not maintained and due to that account MNIT Jaipur is forced to buy the material at your risk and cost from elsewhere, the loss or damage that may be sustained there by will be recovered from the defaulting supplier.
17. All disputes arising out of this contract shall be referred to the sole arbitration of the Director, MNIT Jaipur and his award shall be final and binding on the parties to the disputes. The venue of arbitration shall be MNIT JAIPUR, JLN Marg, Jaipur – 302 017.
18. Dispute clause: Any dispute relating to the enquiry shall be subject to the jurisdiction of the court at Jaipur only.
19. Our normal payment terms are 100% (hundred percent) within 30 (thirty) days on receipt and acceptance of material at our site in good condition.
20. The quotation should be duly signed by an authorized person of the firm. The name and status of the signatory should be clearly to indicated, UNSIGNED QUOTATIONS WILL BE LIABLE FOR REJECTION.
21. EARNEST MONEY: A Demand Draft/Banker's Cheque or Bank Guarantee of Rs. 10,000/- from a Commercial bank only in the name of the Registrar, M.N.I.T. and payable at Jaipur may please be sent along with your tender as Earnest Money **without which no tender shall be considered. Cheques are not accepted as earnest money amount.** No interest is paid by us on the amount of earnest money. **Kindly attached the RTGS details with cancelled cheque along with the Earnest Money.**
22. Successful Bidder has to Provide Performance security @ 10% of the equipment cost, valid for 01Year + 60 Days in the form of Bank's Guarantee/DD from a commercial bank within 15 days from the date of issue our Purchase Order.

**Deputy Registrar (S&P)**

### Fiber And Internet Connectivity In CCC Lab Prabha Bhawan 2<sup>nd</sup> Floor

S. No	Item	Qty	Make/Model	Rate	AMT	GST
1.	Supply of 6 core armod jelly filled, SM optical fiber cable	45 Mtr	AMP/MOLEX/ R&M			
2.	Supply of 12 Way rack mounted LIU, with SC couplers & Pigtail(Single Mode)	01 Nos.	AMP/MOLEX/R&M			
3.	Supply of Network Rack (15U) with following <ul style="list-style-type: none"> <li>➤ PDU 6 pin, 5 amp and 1.5meter feed cable</li> <li>➤ 02 AIR circulation FAN</li> <li>➤ 04 cable manager</li> </ul>	01 Nos.	Comrack/APW- President/Rittal			
4.	Supply of CAT6 UTP cable	1500Mtr	AMP/MOLEX/ R&M			
5.	Supply of CAT6 UTP Patch Cord 02 meter	85 Nos.	AMP/MOLEX/ R&M			
6.	Supply of CAT6 UTP Patch Cord 01 meter	87 Nos	AMP/MOLEX/ R&M			
7.	Supply of SC-LC Fiber Patch Cord 02 Meter (SM Duplex)	02 Nos.	AMP/MOLEX/ R&M			
8.	Network Switch 48 Port with 1000 BASE-T Fiber SFP Module(As AnnexureB)	02 Nos.	Cisco/Extreme/Juniper			
9.	Network Switch 24 Port with 1000 BASE-T SFP Module (As Annexure A)	01 Nos.	Cisco/Extreme/Juniper			
10.	Supply Of CAT-6 IO With Face Plate	85 Nos.	AMP/MOLEX/ R&M			
11.	Supply of PVC Pipe 40mm	70 Mtr	Modi/Jindal/Laxmi MPC			
12.	Supply Of 25mm PVC Casing	100 Mtr	AKG/Rajdhani/PRECISION			
13.	Supply Of 24 Port UTP CAT6 Jack Panel	03 Nos.	AMP/MOLEX/ R&M			
14.	Laying of CAT6 UTP cable	1500 Mtr	As Supplied			
15.	Laying of fiber cable	45 Mtr	As Supplied			
16.	Laying of PVC Pipe 40mm	300 Mtr	As Supplied			
17.	Laying of 25 mm PVC Casing	100 Mtr	As Supplied			
18.	Installation Of Network Rack	01 Nos.	As Supplied			
19.	Installation of 24 port UTP CAT6 Jack Panel	03 Nos.	As Supplied			
20.	6 Core Fiber SM SC connectrization(Splicing)	12 Nos.	-			
21.	Installation of CAT-6 Information Outlet (IO)	85 Nos.	As Supplied			

22.	Installation of Network Switch	03 Nos.	As Supplied			
23.	Point Testing Of LAN Point	28 Nos.	-			
<b>Total</b>						

**Annexure A Specification Of 24 Port Network Switch**

Sl. No	Required Minimum Specification		Compliance (Yes/ No)	Vendor's Remarks
1	<b>General Features</b>	The switch should support a minimum of 24 nos. 10/100/1000 Ethernet Ports(RJ-45)		
		The switch should support a minimum of 4 SFP Uplinks		
		The switch should support 4x1G SFP modules		
		The switch should have at least 28 Ports (4 SFP Uplinks + 24 ports)		
2	<b>Performance and Scalability</b>	The switch should support Forwarding bandwidth of 104 Gbps or more		
		The switch should support Full-duplex Switching bandwidth of 208 Gbps or more		
		The switch should support 64-Byte Packet Forwarding Rate of 65 Mpps		
		The switch should support 128 MB of Flash memory		
		The switch should support 512 MB of DRAM or more		
		The switch should support 1023 VLANs or more		
		The switch should support at least 4094 VLAN IDs		
		The switch should support Jumbo frames of 9216 bytes		
3	<b>Dimension</b>	The Switch should be 1RU		
		The switch should support Operating temperature -0° to 45°C or More		
		The switch should support Operating relative humidity at least 10% to 85% noncondensing		
4	<b>Power Supply</b>	The switch should support an auto-ranging power supply with input voltages between 100 and 240V AC		
5	<b>Standards</b>	The switch should support IEEE 802.1D Spanning Tree Protocol		
		The switch should support IEEE 802.1p		
		The switch should support IEEE 802.1Q Trunking		
		The switch should support IEEE 802.1s Multiple Spanning Tree (MSTP)		
		The switch should support IEEE 802.1w Rapid Spanning Tree (RSTP)		
		The switch should support IEEE 802.1x		
		The switch should support IEEE 802.1ab (LLDP)		
		The switch should support IEEE 802.3ad Link Aggregation Control Protocol (LACP)		

		The switch should support RMON I and II standards		
		The switch should support SNMP v1, v2c, and v3		
6	<b>Layer-2 Features</b>			
		The switch should support Centralized VLAN Management. VLANs created on the Core Switches should be propagated automatically		
		The switch should support Spanning-tree root guard to prevent other edge switches becoming the root bridge.		
		The switch should support IGMP filtering		
		The switch should support discovery of the neighboring device of the same vendor giving the details about the platform, IP Address, Link connected through etc, thus helping in troubleshooting connectivity problems.		
		The switch should support Per-port broadcast storm control to prevent faulty end stations from degrading overall systems performance		
		The switch should support Per-port multicast storm control to prevent faulty end stations from degrading overall systems performance		
		The switch should support Per-port unicast storm control to prevent faulty end stations from degrading overall systems performance		
		The switch should support Voice VLAN to simplify IP telephony installations by keeping voice traffic on a separate VLAN		
		The switch should support Unidirectional Link Detection Protocol (UDLD) and Aggressive UDLD to allow for unidirectional links caused by incorrect fiber-optic wiring or port faults to be detected and disabled on fiber-optic interfaces.		
		The switch should support Local Proxy Address Resolution Protocol (ARP) working in conjunction with Private VLAN Edge to minimize broadcasts and maximize available bandwidth.		
		The switch should support IGMP v1, v2 & v3 Snooping		
7	<b>Quality of Service (QoS) &amp; Control Management</b>			
		The switch should support 8 egress queues per port		
8	<b>Management</b>			
		The switch should support Command Line Interface (CLI) support for configuration & troubleshooting purposes.		
		The switch should support four RMON groups (history, statistics, alarms, and events) for enhanced traffic management, monitoring, and analysis		
		The switch should support Layer 2 trace route to ease troubleshooting by identifying the physical path that a packet takes from source to destination.		

		The switch should support Trivial File Transfer Protocol (TFTP) to reduce the cost of administering software upgrades by downloading from a centralized location.		
		The switch should support SNMP v1, v2c, and v3 of-band management.		
		The switch should support Serial Console Port		
		The switch should support USB Console Port		
		The switch should support SNMPv1, SNMPv2c, and SNMPv3		
9	<b>Network security features</b>	The switch should support IEEE 802.1x to allow dynamic, port-based security, providing user authentication.		
		The switch should support Port security to secure the access to an access or trunk port based on MAC address.		
		The switch should support Multilevel security on console access to prevent unauthorized users from altering the switch configuration.		

## Specification of 48 Port Network Switch

Sl. No	Required Minimum Specification	Compliance (Yes/ No)	Vendor's Remarks
1	<b>General Features</b>	The switch should support a minimum of 48 nos. 10/100/1000 Ethernet Ports(RJ-45)	
		The switch should support a minimum of 4 SFP Uplinks	
		The switch should support 4x1G SFP modules	
		The switch should have at least 52 Ports (4 SFP Uplinks + 48 ports)	
2	<b>Performance and Scalability</b>	The switch should support Forwarding bandwidth of 104 Gbps or more	
		The switch should support Full-duplex Switching bandwidth of 208 Gbps or more	
		The switch should support 64-Byte Packet Forwarding Rate of 107 Mpps	
		The switch should support 128 MB of Flash memory	
		The switch should support 512 MB of DRAM or more	
		The switch should support 1023 VLANs or more	
		The switch should support at least 4094 VLAN IDs	
		The switch should support Jumbo frames of 9216 bytes	
3	<b>Dimension</b>	The Switch should be 1RU	
		The switch should support Operating temperature -0° to 45°C or More	
		The switch should support Operating relative humidity at least 10% to 85% noncondensing	
4	<b>Power Supply</b>	The switch should support an auto-ranging power supply with input voltages between 100 and 240V AC	
5	<b>Standards</b>	The switch should support IEEE 802.1D Spanning Tree Protocol	
		The switch should support IEEE 802.1p	
		The switch should support IEEE 802.1Q Trunking	
		The switch should support IEEE 802.1s Multiple Spanning Tree (MSTP)	
		The switch should support IEEE 802.1w Rapid Spanning Tree (RSTP)	
		The switch should support IEEE 802.1x	
		The switch should support IEEE 802.1ab (LLDP)	
		The switch should support IEEE 802.3ad Link Aggregation Control Protocol (LACP)	
		The switch should support RMON I and II standards	
The switch should support SNMP v1, v2c, and v3			
6	<b>Layer-2</b>		



	<b>Features</b>	The switch should support Centralized VLAN Management. VLANs created on the Core Switches should be propagated automatically		
		The switch should support Spanning-tree root guard to prevent other edge switches becoming the root bridge.		
		The switch should support IGMP filtering		
		The switch should support discovery of the neighboring device of the same vendor giving the details about the platform, IP Address, Link connected through etc, thus helping in troubleshooting connectivity problems.		
		The switch should support Per-port broadcast storm control to prevent faulty end stations from degrading overall systems performance		
		The switch should support Per-port multicast storm control to prevent faulty end stations from degrading overall systems performance		
		The switch should support Per-port unicast storm control to prevent faulty end stations from degrading overall systems performance		
		The switch should support Voice VLAN to simplify IP telephony installations by keeping voice traffic on a separate VLAN		
		The switch should support Unidirectional Link Detection Protocol (UDLD) and Aggressive UDLD to allow for unidirectional links caused by incorrect fiber-optic wiring or port faults to be detected and disabled on fiber-optic interfaces.		
		The switch should support Local Proxy Address Resolution Protocol (ARP) working in conjunction with Private VLAN Edge to minimize broadcasts and maximize available bandwidth.		
		The switch should support IGMP v1, v2 & v3 Snooping		
7	<b>Quality of Service (QoS) &amp; Control</b>	The switch should support 8 egress queues per port		
8	<b>Management</b>	The switch should support Command Line Interface (CLI) support for configuration & troubleshooting purposes.		
		The switch should support four RMON groups (history, statistics, alarms, and events) for enhanced traffic management, monitoring, and analysis		

		The switch should support Layer 2 trace route to ease troubleshooting by identifying the physical path that a packet takes from source to destination.		
		The switch should support Trivial File Transfer Protocol (TFTP) to reduce the cost of administering software upgrades by downloading from a centralized location.		
		The switch should support SNMP v1, v2c, and v3 of-band management.		
		The switch should support Serial Console Port		
		The switch should support USB Console Port		
		The switch should support SNMPv1, SNMPv2c, and SNMPv3		
9	<b>Network security features</b>	The switch should support IEEE 802.1x to allow dynamic, port-based security, providing user authentication.		
		The switch should support Port security to secure the access to an access or trunk port based on MAC address.		
		The switch should support Multilevel security on console access to prevent unauthorized users from altering the switch configuration.		

**Deputy Registrar (S&P)**