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मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान
 इलाहाबाद-211004 (भारत)

Motilal Nehru National Institute of Technology Allahabad
 Allahabad-211004 (India)

An Institute of National Importance as Declared by NIT Act, GOI, 2007

INVITATION FOR SUPPLY & INSTALLATION OF EQUIPMENTS FOR WIFI EXTENSION
(For Contracts value estimated to cost less than Rs.25lakhs)

1	Closing Date/Time for submission of Quotations	09/12/2016; 3:30 Hrs.
2	Opening Date/Time of Quotations	09/12/2016; 4:00 Hrs.
3	Quotations to be submitted at	The Office of Faculty-In-charge (Purchase) M.N.N.I.T. Allahabad, Allahabad-211 004 (U.P.)
4	Place of opening of quotations	The Office of Faculty-In-charge (Purchase) M.N.N.I.T. Allahabad, Allahabad-211 004 (U.P.)
5	Tender Fee	Rs. 200.00 (Non-refundable), in form of a Demand Draft drawn in favor of DIRECTOR, MNNIT Allahabad.
6	Earnest Money Deposit (EMD)	Rs. 59,000/- (Rs. In words Fifty Nine Thousand only) , in form of FDR/Bank guarantee, from any of the Commercial Banks, drawn in favour of "Director, MNNIT Allahabad" payable at Allahabad, and valid for a period of 45 days beyond the final bid validity period

To,

Dear Sir

You are invited to submit your most competitive quotation for the following goods/equipments. The quotation should be sent directly to the undersigned under Sealed Cover marked "Quotation Reference No., Date", and "The Due Date":

Sl. No.	Brief Description of the Goods	Quantity	Place Of Delivery	Installation Requirement		
LAN Component						
1.	Supply of Rack mountable manageable Layer 2 Access Switch with 24-port 10/100/1000 Mbps ports and having an option of atleast 4 SFP-based Gigabit Ethernet ports in addition to the Copper Ports (Cisco WS-C2960X TS-L or equivalent) with three years of Comprehensive Warranty.	07 Nos.	MNNIT Allahabad	YES		
2.	1000BASE-T SFP transceiver module compatible with Cisco WS2960X TS-L (Cisco GLC-TSFP)	01 No.				
Access Points Component						
3.	Supply, Installation and Configuration of Access Points with IEEE 802.11ac, 802.11n, 802.11g, 802.11b, 802.3af, 802.3u, 802.1X (security authentication), 802.1Q (VLAN), 802.1D (Spanning Tree), 802.11i (WPA2 security), 802.11e (wireless Qos), IPv4 (RFC 791), 1 Pv6 (RFC 2460) (CISCO WAP 150 or equivalent), With three year comprehensive warranty.	64 Nos.				
4. UTP Components						
1	Supply of CAT 6 UTP cable.	6000 Mts				
2	Supply of Information Outlet Box with termination, complete in all respect. (I/O with Faceplate)	64 Nos				
3	Supply of 6U Rack.	07 Nos.				
4	Supply and Installation of Patch Cord 3' UTP CAT6.	64 Nos				
5	Supply and Installation of Cable Manager.	07 Nos.				
6	Supply, Installation and Punching of 24 ports Patch Panel Cat6 with proper ferruling.	07 Nos.				
7	Supply and Crimping of RJ 45 connector.	50 Nos				
5. Others						
1	Cabling/Wiring of Internet point with CAT 6 Internet cable (AMP) in 1" PVC (ISI Mark) conduit/ Casing-Capping with fixing, termination and pulling etc. Termination of UTP cable at I/O end. Ferruling/ numbering of cable at both ends. Complete in all respect (Payment as per actual)	6000 Mts				
2	Installation and Mounting of 6U Rack.	07 Nos.				
(Detailed Specification attached at 'Annexure-B')						

The sealed tenders must be submitted in the Office of the Faculty In-charge (Purchase), on or before **due date & time as mentioned above** in the office of the undersigned, in the presence of bidder's authorized representatives, who choose to attend and shall sign a register evidencing their attendance.

The tender/quotations NOT submitted in the prescribed format or Incomplete in any respect will be outrightly rejected.

Faculty in-Charge (Purchase)
 MNNIT Allahabad

GENERAL TERMS & CONDITION (GCC)

1. **Bid Price**
 - (a) The contract shall be for the full quantity as described above. Corrections, if any, shall be made by crossing out, initialing, dating and rewriting.
 - (b) All duties, taxes and other levies payable by the contractor under the contract shall be included in the total price.
 - (c) The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
 - (d) The prices should be quoted in Indian Rupees only for indigenous items. For imported items/Equipments, the prices should be quoted in foreign currency.
 - (e) Each bidder shall submit only one quotation.
2. **Validity of Quotation**

Quotation shall remain valid for a period not less than **120 days** after the deadline date specified for submission.
3. **Evaluation of Quotations**
 - (a) The purchaser will evaluate and compare the quotations determined to be substantially responsive, i.e., which
 - (i) are properly signed; and
 - (ii) conform to the terms and conditions, and specifications.
 - (iii) will be with tender fees, and EMD required, if any.
 - (b) The Quotations would be evaluated separately for each item.
4. **Award of Contract**

The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.

 - Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.
 - The bidder whose bid is accepted will be notified for the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order if falls under Govt. purchase rules, i.e., GFR-2005
5. **Formats and Signing of Bid**
 - Each & every pages of the submitted bid must carry the page numbers.
 - The bidders are not allowed to make additional and alteration in the tender document, any additions and alteration in the tender document, any additions and alterations shall be at bidder's risk. Conditional/modified tender are liable to be rejected.
 - The tender/quotations NOT submitted in the prescribed format or Incomplete in any respect will be outrightly rejected.
 - If the bid submitted without compliance sheet details of equipments the bid will be outrightly rejected.
 - The bid shall be typed or written in indelible ink and shall be signed by the Bidder/Tenderer or a person or persons duly authorized to bind the Bidder/Tenderer to the Contract. All pages of the bid, except for unamended printed literature, shall be initialed by the person or persons signing the bid.
 - Any interlineations, erasure or overwriting shall be valid only if they are initiated by the persons or persons signing the bid.
 - The Bidder shall furnish information as described in the Form of Bid on commissions or gratuities, if any, paid or to be paid to agents relating to this Bid, and to contract execution if the Bidder is awarded the contract.
6. **Payment condition:** 100% Payment shall be made only after satisfactory delivery and installation of the goods. Advance payment is not permitted.
7. Normal Commercial warranty/ guarantee shall be applicable to the supplied goods.
8. **Payment will be cleared through e-payment mode (Format of e-payment form given at Annexure-D)**

INSTRUCTIONS/GUIDELINES TO BIDDERS (ITB)

1. Bidders who had supplied the Government departments, PSUs/NITs/IITs/IIITs and reputed Institutions and Organizations should only apply.
2. The bidder should enclose the client list with contact address along with Phone/Fax for reference, for the quoted item.
3. Please quote the prices of F.O.R. Motilal Nehru National Institute of Technology Allahabad, Allahabad.
4. The Bidders are requested to submit their Quotation with EMD in the form of Demand Draft/ Bank Guarantee/ Short term Deposit of the cost of equipments/items in favor of "The Director, MNNIT, Allahabad" payable at Allahabad. Quotation without EMD will be summarily rejected. EMD's of all Bidders will be returned back after the purchase order /contract agreement is issued to successful bidder.
5. Successful Bidders must have to submit the performance security @10% of the purchase order or contract value and it will be retained up to the warranty period.
6. The bidder should enclose relevant documents wherever necessary to substantiate his eligibility.
7. The Institute is eligible for and can provide necessary documentation for Custom/Excise and Octroi exemption on demand, if permitted under rule.
8. Motilal Nehru National Institute of Technology Allahabad, Allahabad, reserves the right to reject, accept any or whole or part of any of the tender without assigning any reason thereof and no claim will be heard. In case of dispute, the decision of The Director, MNNIT, and Allahabad will be final and binding.
9. If the successful bidder is not able to supply the goods items within the delivery date specified in the purchase order, the purchase order will be automatically treated as cancelled after expiry of delivery date period. The vendor will have to submit an undertaking in this regard that this condition is acceptable to him. In case of extra ordinary circumstances the vendors must send a request for extension of validity of purchase orders, with proper justification prior to the expiry of validity date for consideration.
10. In case of sophisticated equipments, an on-site training needs to be provided with no extra cost.
11. The quotation must be accompanied by leaflets/operation manuals/books etc.
12. Wherever applicable the vendors must quote the branded /desired items.

CHECK LIST
(ON THE LETTER HEAD OF THE BIDDER)

The Bid will be the compilation of following documents, along with required supporting documents. No document in support of minimum eligibility criteria will be accepted / entertained after opening of tender.

Sl. No	Documents
1.	Cover letter by bidder (On the Letter Head of the Bidder)
2.	Tender Fee
3.	Earnest Money Deposit (EMD), if required
4.	Cliental List for quoted item
5.	Annexure-A : Bid Proposal Sheet (On the Letter Head of the Bidder)
6.	Annexure-B : Compliance of bidder with reference to various equipments (On the Letter Head of the Bidder)
7.	Annexure-C : PRICE BID (On the Letter Head of the Bidder)
8.	Annexure-D : PROFORMA FOR DIRECT PAYMENT/TRANSFER TO BANK ACCOUNT BY MNNIT ALLAHABAD
9.	OEM Authorization specific to Tender Reference Number.

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ANNEXURE-A

BID PROPOSAL SHEET
(ON THE LETTER HEAD OF THE BIDDER)

To
Faculty In-charge (Purchase)
MNNIT Allahabad, Allahabad

Subject: Supply and Installation of “Equipments for Wifi Extension” at MNNIT Allahabad, Allahabad.

Dear Sir,

We, the undersigned Tenderers, having read and examined in detail the specifications as specified in this document in respect of Supply and Installation of **Equipments for Wifi Extension** at MNNIT Allahabad, Allahabad do hereby propose to supply the required products and services.

Tender No.				
Tender Fees submitted		YES / NO (Please strike off whatever is not applicable)		
Amount	Mode	Date of Issue	Name of Bank	Valid up to
	Demand Draft			
EMD submitted		YES / NO (Please strike off whatever is not applicable)		
Amount	Mode	Date of Issue	Name of Bank	Valid up to
	Demand Draft			

- (i) **ADDITIONAL PURCHASE/WORK ORDER:** We understand that the MNNIT Allahabad, Allahabad, in case of the requirements may also place repeat purchase order/work order on the company. In such cases, we shall accept and execute all the purchase/work order placed on us by MNNIT Allahabad, Allahabad.
- (ii) **BID PRICING:** We further declare that the prices stated in our proposal are in accordance with your Terms & Conditions in the bidding document. We further understand that the quantities as specified in this Tender may increase or decrease at the time of Award of Purchase Order as per the requirements of MNNIT Allahabad, Allahabad.
- (iii) **QUALIFYING DATA:** We confirm that we satisfy the qualifying criteria and have attached the requisite documents as documentary proofs. In case you require any further information/documentary proof in this regard during evaluation of our bid, we agree to furnish the same in time to your satisfaction.
- (iv) **CONTRACT PERFORMANCE SECURITY:** We hereby declare that in case the contract is awarded to us, we shall submit the performance Guarantee Bond in the form of Bank Guarantee for the amount mentioned at **clause No. 5 in ITB** of the total order value.
- (v) **PAYMENT TERMS:** We hereby declare that in case the contract is awarded to us, we agree with payment terms specified in the tender documents.
- (vi) **CERTIFICATE AND DECLARATION:**
 - a) I/We certify that no addition/modification/alteration has been made in the Original Tender Document. If at any stage addition /modification /alteration is noticed in the Original Document, I/We will abide by the terms and conditions contained in the original tender document, failing which MNNIT Allahabad reserves the right to reject the tender and/or cancel the contract
 - b) It has been certified that all information provided in tender form is true and correct to the best of my knowledge and belief. We hereby declare that our proposal is made in good faith, without collusion or fraud. No forged /tampered document(s) are produced with tender form for gaining unlawful advantage. We understand that MNNIT Allahabad is authorized to make enquiry to establish the facts claimed and obtained confidential reports from clients.
 - c) In case it is established that any information provided by us is false / misleading or in the circumstances where it is found that we have made any wrong claims. Further MNNIT Allahabad is also authorized to blacklist our firm/company/agency and debar us in participating in any tender/bid in future.
 - d) I / We assure the Institute that neither I /We, nor any of my /our workers, will do any act which is improper / illegal during the execution in case the tender is awarded to us.
 - e) I / We assure the Institute that I / We will NOT be outsourcing any work specified in the tender document, to any other firm.
 - f) Neither I / We, nor anybody on my /our behalf will indulge in any corrupt activities /practices in my /our dealing with the Institute.
 - g) Our Firm / Company / Agency is not been blacklisted or banned by any Govt. Department, PSU, University, Autonomous Institute or any other Govt. Organization.
 - h) I/We certify that, I have understood all the terms & conditions (GCC and ITB etc.), as indicated in enquiry of the tender document, and hereby accept all the same completely.
 - i) I/We, further certify that I/We, possess all the statutory /non-statutory registrations, permissions, approvals, etc., from the Competent Authority for providing the requisite services,
 - j) We understand that you are not bound to accept the lowest or any bid you may receive.
 - k) I/We hereby declare that this tender on acceptance communicated by you shall constitute a valid and binding contract between us.
 - l) I/We certify that the submitted quotation is duly paginated and contains from page no. 1 to

Date:

Signature and Seal of the Manufacturer/Bidder

Technical Compliance of Goods
(ON THE LETTER HEAD OF THE BIDDER)

Access Switch (Cisco 2960X TS-L or Equivalent): Qty-07 No's			
Specification	Details	Compliance (Yes/No)	Quoted Model
Physical Specification	<ul style="list-style-type: none"> Should be rack mountable with 24-port 10/100/1000 Mbps ports and having an option of at least 4 SFP- based Gigabit Ethernet ports in addition to the Copper Ports 		
General Specifications	<ul style="list-style-type: none"> Switch with 176Gbps switching fabric with min 80Gbps of forwarding bandwidth Min. 40 million packets per second forwarding rate on 64-byte packets 8000 MAC address supported 255 IGMP groups Should support Redundant Power Supply Should have USB console and flash Should Support Ipv6 (ready to use) Should Support Stacking and Redundant Power Source 		
Layer-2 Features	<ul style="list-style-type: none"> IEEE 802.1Q VLAN encapsulation. Up to 255 VLANs per switch and up to 4000 VLANIDs Support for Automatic Negotiation of Trunking Protocol, to help minimize the configuration & errors Centralized VLAN Management. VLANs created on the Core Switches should be propagated to all the other switches automatically, thus reducing the overhead of creating / modifying / deleting VLANs in all the switches in turn eliminating the configuration errors & troubleshooting. Spanning-tree Port Fast for fast convergence 802.1d, 802.1p, 802.1Q, 802.1s, 802.1w, 802.1x, 802.1xREV, 802.1ab, 802.3ad, Spanning-tree root guard to prevent other edge switches becoming the root bridge. IGMP snooping v1, v2 and v3 Link Aggregation Protocol (LACP) Support for Detection of Unidirectional Links and to disable them to avoid problems such as spanning – tree loops Should be able to discover the neighboring device of the same make giving the details about the platform, IP Address, Link connected through etc, thus helping in troubleshooting connectivity problems. Support for Switch port auto recovery (err disable) to automatically re-enable a link that is disabled because of a network error. Should support Multicast VLAN registration 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. Should support Local Proxy Address Resolution Protocol (ARP) works in conjunction with Private VLAN Edge to minimize broadcasts and maximize available bandwidth Should support LLDP and LLDP-MED including client location information. Should exchange link and device information in multivendor networks. Should support configuration rollback to replace current configuration with any saved Configuration file. Should support link state tracking which provides layer2 redundancy in the network when used in conjunction with server teaming. 		
QoS Features	<ul style="list-style-type: none"> Standard 802.1p QoS and DSCP classification using marking and reclassification on a per-packet basis by source and destination IP address, source and destination MAC address, or Layer 4 TCP or UDP port number. Control – and Data-plane QoS ACLs No performance penalty for highly granular QoS functions Four egress queues per port to enable differentiated management of up to four traffic types Weighted tail drop (WTD) to provide congestion avoidance Strict priority queuing mechanisms Rate limiting support based on source and destination IP address, source and destination MAC address, Layer 4 TCP and UDP information, or any combination of these fields, using QoS ACLs (IP ACLs or MAC ACLs), class maps, and policy maps. Up to 64 aggregate or individual policers for per Fast Ethernet or Gigabit Ethernet port. Support for Automatic Quality of Service for easy configuration of QoS features for critical applications 		
Network Security Features	<ul style="list-style-type: none"> IEEE 802. 1x to allow dynamic, port-based security, providing user authentication 		
Warranty	<ul style="list-style-type: none"> Three year comprehensive warranty. 		

Wireless Access Point (CISCO WAP150 or equivalent): Qty-64 No's				
S.N	Specification	Details	Compliance (Yes/No)	Quoted Model
1	Standards	IEEE 802.11ac, 802.11n, 802.11g, 802.11b, 802.3af, 802.3u, 802.1X		

		(security authentication), 802.1Q (VLAN), 802.1D (Spanning Tree), 802.11i (WPA2 security), 802.11e (wireless QoS), IPv4 (RFC 791), IPv6 (RFC 2460)		
2	Cabling type	Category 5e or better		
3	Antennas	Internal antennas optimized for installation on a wall or ceiling		
4	LED indicators	1 multifunction LED		
5	Operating system	Linux		
6	Ports	10/100/1000 Ethernet, with support for 802.3af /at PoE, power port for AC adapter (included)		
7	Buttons	Reset button, power on/off push button		
8	Lock slot	Slot for Kensington lock		
9	VLAN support	Yes		
10	Number of VLANs	1 management VLAN plus 8 VLANs for SSIDs		
11	802.1X supplicant	Yes		
12	Auto-channel selection	Yes		
13	Spanning tree	Yes		
14	IPv6	Yes • IPv6 host support • IPv6 RADIUS, syslog, Network Time Protocol (NTP)		
15	Layer 2	802.1Q-based VLANs, 8 active VLANs plus 1 management VLAN		
16	WPA, WPA2	Yes, including Enterprise authentication		
17	Access control	Yes, management access control list (ACL) plus MAC ACL		
18	Secure management	HTTPS		
19	SSID broadcast	Yes		
20	Rogue access point detection	Yes		
21	Multiple mounting options	Desktop or Wall		
22	Physical security lock	Kensington lock slot		
23	QoS	Wi-Fi Multimedia and Traffic Specification (WMM TSPEC), client QoS		
24	Wireless throughput	Up to 1.2 Gbps data rate (real-world throughput will vary)		
25	Recommended user support	Up to 64 connective users, 10 active users per radio		
26	Single Point Setup	Yes		
27	Number of access points per cluster	4		
28	Web user interface	Built-in web user interface for easy browser-based configuration (HTTP, HTTPS)		
29	Frequency	Dual concurrent radios (2.4 and 5 GHz)		
30	Radio and modulation type	Dual radio, orthogonal frequency division multiplexing (OFDM)		
31	WLAN	802.11n/ac 2x2 multiple-input multiple-output (MIMO) with 2 spatial streams at 5 GHz 2x2 MIMO with 2 spatial streams at 2.4 GHz 20-, 40-, and 80-Mhz channels for 802.11ac 20- and 40-Mhz for 802.11n PHY data rate up to 1.2 Gbps 802.11 dynamic frequency selection (DFS)		
32	Data rates supported	802.11a/b/g: • 54, 48, 36, 24, 18, 12, 9, 6, 11, 5.5, 2, and 1 Mbps • 802.11n: 6.5 to 300 Mbps ◦ 20-MHz bandwidth: MCS 0-15 for supported data rates ◦ 40-MHz bandwidth: MCS 0-15 for supported data rates • 802.11ac: 6.5 to 867 Mbps ◦ 20-MHz bandwidth: MCS 0-9 for supported data rates ◦ 40-MHz bandwidth: MCS 0-9 for supported data rates ◦ 80-MHz bandwidth: MCS 0-9 for supported data rates		
33	Antenna gain in dBi	Maximum antenna gain of 3.61 dBi on 2.4 GHz Maximum antenna gain of 3.85 dBi on 5 GHz		
34	Wireless distribution system (WDS)	Yes		
35	Multiple SSIDs	8		
36	Wi-Fi Multimedia (WMM)	Yes, with unscheduled automatic power save		
37	Access point	Access point mode, WDS Bridging, Workgroup Bridge mode		
38	Power options	IEEE 802.3af Ethernet switch Power Injector - SB-PWR-INJ2-xx AC adapter – SB-PWR-12V/1.5A power adapter in a box POE power Peak power: 9.5Watts		
39	Compliance	Safety: • UL 60950-1 • CAN/CSA-C22.2 No. 60950-1 • IEC 60950-1 • EN 60950-1 Radio approvals: • FCC Part 15.247, 15.407 • RSS-210 (Canada) • EN 300.328, EN 301.893 (Europe) • AS/NZS 4268.2003 (Australia and New Zealand) EMI and susceptibility (Class B): • FCC Part 15.107 and 15.109 • ICES-003 (Canada) • EN 301.489-1 and -17 (Europe)		
40	System memory	256 MB RAM 128 MB flash		
41	Warranty	Three year comprehensive warranty.		

CAT-6 UTP Cable: Qty-6000Mts

Specification	Details	Compliance (Yes/No)	Quoted Model
Type	Unshielded Twisted Pair, Category 6, TIA / EIA 568-C.2 & ISO/IEC 11801		
Conductors	23 AWG solid bare copper		
Insulation	Polyethylene		
Jacket	Flame Retardant PVC		
Pair Separator	Cross-member (+) fluted Spline.		

Approvals	(a) UL Listed / UL Verified		
	(b) ETL verified to TIA / EIA Cat 6		
Operating temperature	-20 Deg. C to +60 Deg. C		
Storage Temperature	-20 Deg. C to +80 Deg. C		
Frequency tested up to	Minimum 550 MHz		
Packing	Box of 305 meters		
Cable Outer Diameter	.23 inches		
Delay Skew	45ns MAX.		
Bend Radius	4 * Cable Diameter		
UL/NEC Ratings	CMR Rated		
Mutual Capacitance	5.6 NF MAX /100 Mtr.		
Conductor Resistance	66.58 Ohms Max / KM		
Propagation Delay	536 ns/100 Mtrs. MAX @ 250 Mhz		
Performance characteristics	Attenuation, Pair-to-pair and PS NEXT, ELFEXT and PSELFEXT, Return Loss, ACR and PS ACR		
ROHS Compliance	ROHS Complaint		

UTP Jack/ IO: Qty-64 No's			
Specification	Details	Compliance (Yes/No)	Quoted Model
Type	PCB based, Unshielded Twisted Pair, Category 6, TIA /EIA 568-C.2 and ISO/IEC 11801		
Modular Jack	750 mating cycles		
Wire terminal	200 termination cycles		
Accessories	Integrated bend-limiting strain-relief unit for cable entry		
	Integrated hinged dust cover or dust protection at user side information outlet		
	Support cable pair termination process on the jacks at 90 degree angle.		
	Bidder should have a mechanism to maintain the quality of the termination ir-respective of the skill level of the termination staff.		
Housing	Polyphenylene oxide, 94V-0 rated.		
110 Blocks	Polycarbonate, 94V-0 rated		
Jack contacts	Beryllium copper, plated with 1.27 mm [.000050] thick gold in localized area and 3.81 mm [.000150] minimum thick tin-lead in solder area over 1.27 mm [.000050] minimum thick nickel under plate		
Wiring blocks	Polycarbonate, 94V-0 rated		
Approvals	(a) UL Listed / CSA Approved		
	(b) ETL verified to TIA / EIA Cat 6		
Performance Characteristics	Attenuation, NEXT, PS NEXT, FEXT and Return Loss		
ROHS Compliance	ROHS Complaint		

UTP Jack/ Patch Panel: Qty-07 No's			
Specification	Details	Compliance (Yes/No)	Quoted Model
Type	24-port, Modular, PCB based, Unshielded Twisted Pair, Category 6, TIA / EIA 568-C.2 and ISO/IEC 11801		
Ports	24		
Port arrangement	Configured as 6 Port Module with individually replaceable CAT-6 Jacks		
Circuit Identification Scheme	Front of each module shall be capable of accepting 9 mm to 12 mm labels		
Port Identification	9mm or 12mm Labels on each of 24-ports (to be included in supply		
Height	1 U (1.75 inches) for 24-Ports and 2 U for 48-ports		
Interface	Polyester Molding Compound, Black		
Modular Jack	750 mating cycles		
Wire terminal	200 termination cycles		
Accessories	Integrated bend-limiting strain-relief unit for cable entry		
Housing	Polyphenylene oxide, 94V-0 rated		
Wiring blocks	Polycarbonate, 94V-0 rated		
Jack contacts	Beryllium copper, plated with 1.27 mm [.000050] thick gold in localized area and 3.81 mm [.000150] minimum thick tin-lead in solder area over 1.27 mm [.000050] minimum thick nickel under plate		
Panel	Black, powder coated steel		
Approvals	UL listed / ETL Verified		
Termination Pattern	TIA / EIA 568 A and B;		
ROHS Compliant	ROHS Compliant		

UTP Patch Cord 3': Qty-64 No's			
Specification	Details	Compliance (Yes/No)	Quoted Model
Type	Unshielded Twisted Pair, Category 6, TIA / EIA 568-C.2 & ISO/IEC 11801		
Conductor	24 AWG 7 / 32, stranded copper conductors 100 Ohm		
Length	3/4 feet		
Plug Protection	Transparent Slim boot		
Warranty	25-year component		
Insulation	Flame Retardant Polyethylene		
ROHS Compliance	ROHS Complaint		

Faceplate: Qty-64 No's			
Specification	Details	Compliance (Yes/No)	Quoted Model
Type	Single Gang, BS		
Material	ABS / UL94 V-0		
No. of ports	One/Two		
Shutter	ABS UL94V-0		
Spring of Shutter	Steel, Stainless		
Holder, Jack	ABS UL 94V-0		
Cover Label	Acrylic UL94V-0		
ROHS Compliance	ROHS Complaint		

ANNEXURE-C

PRICE BID
(ON THE LETTER HEAD OF THE BIDDER)

Sl. No.	Brief Description of the Goods	Qty	Quoted Unit Rate in Rs	Total Amount (in Rs.)		Tax	
				In Figures	In Words	VAT	Any other charges (if any)
LAN Component							
1.	Supply of Rack mountable manageable Layer 2 Access Switch with 24-port 10/100/1000 Mbps ports and having an option of atleast 4 SFP-based Gigabit Ethernet ports in addition to the Copper Ports (Cisco WS-C2960X TS-L or equivalent) with three years of Comprehensive Warranty.	07 Nos.					
2.	1000BASE-T SFP transceiver module compatible with Cisco WS2960X TS-L (Cisco GLC-TSFP)	01 No.					
Access Points Component							
3.	Supply, Installation and Configuration of Access Points with IEEE 802.11ac, 802.11n, 802.11g, 802.11b, 802.3af, 802.3u, 802.1X (security authentication), 802.1Q (VLAN), 802.1D (Spanning Tree), 802.11i (WPA2 security), 802.11e (wireless Qos), IPv4 (RFC 791), 1 Pv6 (RFC 2460). With three year comprehensive warranty.	64 Nos.					
4. UTP Components							
1	Supply of CAT 6 UTP cable.	6000 Mts					
2	Supply of Information Outlet Box with termination, complete in all respect. (I/O with Faceplate)	64 Nos					
3	Supply of 6U Rack.	07 Nos.					
4	Supply and Installation of Patch Cord 3' UTP CAT6.	64 Nos					
5	Supply and Installation of Cable Manager.	07 Nos.					
6	Supply, Installation and Punching of 24 ports Patch Panel Cat6 with proper ferruling.	07 Nos.					
7	Supply and Crimping of RJ 45 connector.	50 Nos					
5. Others							
1	Cabling/Wiring of Internet point with CAT 6 Internet cable (AMP) in 1" PVC (ISI Mark) conduit/ Casing-Capping with fixing, termination and pulling etc. Termination of UTP cable at I/O end. Ferruling/ numbering of cable at both ends. Complete in all respect (Payment as per actual)						
2	Installation and Mounting of 6U Rack.						
(Detailed Specification attached at 'Annexure-B')							

We agree to supply the above goods in accordance with the technical specifications for a total contract price of _____ within the period specified in the Invitation for Quotations.

We also confirm that the normal commercial warrantee/guarantee of _____ months shall apply to the offered goods.

Signature and Seal of the Manufacturer/Bidder

ANNEXURE-D

PROFORMA FOR DIRECT PAYMENT/TRANSFER TO BANK ACCOUNT BY MNNIT ALLAHABAD

Sl. No.	Particulars	Information
1.	Firm [Beneficiary] Name	
2.	Code No. allotted by the MNNIT Allahabad [If code is not allotted yet, please enclose a cancelled cheque and copy of PAN card. Cancelled cheque & PAN card is to be submitted only once]	
3.	Complete Bank Account No. of the Firm [beneficiary]. [in case of change in bank account vendor should write to Account Office]	
4.	Bank Name	
5.	Branch Address	
6.	IFSC Code No.	
7.	Permanent Account Number	
8.	Mobile No. [for SMS]	
9.	Email ID [for information]	

We undertake that all information provided above is correct and MNNIT Allahabad will not be responsible in case of any error on the part of firm.

[Seal and Signature of the firm]

[7/7]

Signature (in ink, with date) & Seal of Bidder/Tenderer