No. 612/Purchase Office/CC/SVBH WiFi Extension/2016

Telephone : 91-532-227+1056, 1057 Fax GRAM

Website

Email

- : 0532-2545341, 2545822 : MNNIT
- : http://www.mnnit.ac.in : purchasemnnit@gmail.com, . fip@mnnit.ac.in



Date: 24/08/2016

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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	15/09/2016; 11:00 Hrs.
2	Opening Date/Time of Quotations	15/09/2016; 11:30 Hrs.
2		
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 Dem	
		Draft drawn in favor of DIRECTOR, MNNIT
		Allahabad.
6	Earnest Money Deposit (EMD)	Rs. 57,400/- (Rs. In words Fifty Seven thousand
		four hundred 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:

SI. No.	Brief Description of the Goods	Quantity	Place Of Delivery	Installation Requirement
1.	Rack Mountable Manageable Layer 2 Access Switch with 24-port 10/100 Mbps port and atleast 2 no's of Gigabit SFP and UTP Uplinks Ports. [Cisco WS-C2960-plus-24 TC-L or equivalent with three years of Comprehensive Warranty].	08 Nos.		
2.	Rack Mountable Manageable Layer 2 Access Switch with 24-port 10/100/1000 Mbps port and having an option of atleast 4 SFP based Gigabit Ethernet Ports in addition of the Copper Ports. [Cisco WS2960X TS-L or equivalent with three years of Comprehensive Warranty].	01 No.	M.N.N.I.T. Allahabad	YES
3.	1000BASE-T SFP transceiver module compatible with Cisco WS2960X TS-L (Cisco GLC-TSPF) or equivalent	01 No.		
4.	Supply, Installation and Configuration of Access Points with dual antenna, dual B/W, DHCP Server with three year comprehensive warranty. Wireless Access Point of D Link 2360 or equivalent.	66 Nos.		
5.	UTP Components	-		
6.	Cabling and Wiring/Installation.	-		
	(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.

Bid Price

GENERAL TERMS & CONDITION (GCC)

- (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. <u>Payment condition:</u> 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/IITs and reputed Institutions and Organizations should only apply.
- 2. The bidder should enclose the cliental 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.

SI. 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.	Annexure-D : PROFORMA FOR MANUFACTURER AUTHORIZATION FORM (MAF)	

ANNEXURE-A

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

То

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 whate	ever is not applicable)
Amount	Mode	Date of Issue	Name of Bank	Valid up to
	Demand Draft			
EMD subm	itted	YES / NO	(Please strike off whate	ever 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.
- I) 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)

SI. No.		Descriptions/Specification	Quantity	Compliance (Yes/No)	Quoted Model
	Access Switch: Qty-0	8 No's [Cisco WS-C2960-plus-24 TC-L or equivalent]			
	Specification	Details			
	Port Density Capability	• 24 Ports 10/100 Base T.			
		 2 Ports 10/100/1000 (SFP or 1000BASE-T) 			
	Manager	With Cisco LAN Base IOS.			
	Memory	64MB DRAM and 32MB Flash Memory support.			
	Switching Capacity and Performance throughput	16 Gbps Switching Fabric.			
	r enormance iniougripui	 8.8 Gbps Forwarding Bandwidth. 6.5 Mpps.			
	MAC Address Support	8000 MAC address, 255 IGMP groups.			
	VLAN Support	IEEE802.1Q VLAN with 255 VLANs.			
	Switching Services	L2 Switching, L2-L4 services.			
	J. J. J. L.	 DHCP Relay & Server, DHCP Type-82. 			
		UDLD and VTP Support.			
		Per-port Unicast, broadcast, multicast storm control prevention.			
		Egress committed rate (ECR).			
	Power Supply Support	Support for Redundant Power Supply.			
	Protocol Support	 IEEE802.1Q, 802.1p, 802.1D, 802.3x, 802.3ad, 802.1w. ICMD v1 v2 v2 and IDv4 			
	Management	 IGMP v1, v2, v3 and IPv4. Web View, Telnet, SNMP, Console, RMON, TDR, UDLD, L2 			
	manayoniciit	web view, reinet, SNMP, Console, RMON, TDR, UDLD, L2 trace route.			
		 Local and remote mirroring of the ports. 			
	QoS	802.1p prioritization with minimum of four priority queues for			
		support of critical applications like Voice/IP telephony.			
		• L2, L3, L4 traffic classification.			
		Strict priority queuing, Weighted Fair Queuing and Rate Limiting			
		Limiting. • SAA Support.			
		Control-plane and Data-plane ACLs support on all ports to			
		ensure proper treatment on a per-packet basis.			
		Shaped Round Robin (SRR).			
		Asynchronous data flows upstream and downstream.			
	Technology Support	• IEEE802.1s, IEEE802.1w, IEEE802.1x, IEEE802.3ad.			
		IEEE802.3ah (100Base-X single/multimode fiber only).			
		IEEE802.3x full duplex on 10Base-T ports.IEEE802.1D STP.			
		 IEEE002.1D STP. IEEE802.1p CoS Prioritization, IEEE802.1Q VLAN. 			
		 IEEE802.3 10Base-T specification. 			
		IEEE802.3u 100Base-TX specification.			
		 IEEE802.3ab 1000Base-T specification. 			
		 IEEE802.3z 1000Base-X specification. 			
	Security	802.1x Port based network access control.			
		 IEEE802.1x with VLAN assignment allows a dynamic VLAN assignment for a specific user regardless of where the user is 			
		connected.			
		 Hardware based L2 ACLs and QoS ACLs support. 			
		ACLs based on source and destination MAC addresses IP			
		addresses or TCP/UDP ports.			
		Users can be assigned a VLAN upon authentication.			
		Spanning-Tree Root Guard. Multiluol cognition of concerned			
		 Multilevel security on console access. SSHv2, SNMPv3, MAC Address Locking and RADIUS support. 			
	Access Switch: Otv-0	1 No. [Cisco 2960 TS-L or equivalent]			
	Specification	Details			
	Physical Specification	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	• 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	• 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 & errorsCentralized 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 should the platform UD Address Link 		
		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		
1		network error.		
1		Should support Multicast VLAN registration Should support DUCD. Sonor applying a convenient.		
1		 Should support DHCP Server enabling a convenient deployment option for the assignment of IP addresses in 		
1		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	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.		
1		 Support for Automatic Quality of Service for easy configuration of QoS features for critical applications 		
 	Network Security Features	 IEEE 802. 1x to allow dynamic, port-based security, providing 		
		user authentication		
		Qty-66 No's [D-Link 2360 or equivalent]		
L	Specification	Oty-66 No's [D-Link 2360 or equivalent] Details		
	Specification WAN interface and the	Qty-66 No's [D-Link 2360 or equivalent] Details • DHCP client/Server/Relay and fixed IP address assignment.		
	Specification WAN interface and the networking features should	Qty-66 No's [D-Link 2360 or equivalent] Details • DHCP client/Server/Relay and fixed IP address assignment. • PPPoE client, PPPoE pass-through.		
	Specification WAN interface and the	Oty-66 No's [D-Link 2360 or equivalent] Details • DHCP client/Server/Relay and fixed IP address assignment. • PPPoE client, PPPoE pass-through. • VPN pass-through.		
	Specification WAN interface and the networking features should	Qty-66 No's [D-Link 2360 or equivalent] Details • DHCP client/Server/Relay and fixed IP address assignment. • PPPoE client, PPPoE pass-through.		
	Specification WAN interface and the networking features should	Qty-66 No's [D-Link 2360 or equivalent] Details • DHCP client/Server/Relay and fixed IP address assignment. • PPPoE client, PPPoE pass-through. • VPN pass-through. • NAT.		
	Specification WAN interface and the networking features should support The wireless network should	Oty-66 No's [D-Link 2360 or equivalent] Details DHCP client/Server/Relay and fixed IP address assignment. PPPoE client, PPPoE pass-through. VPN pass-through. NAT. VLAN. Switch and gateway mode. 802.11b/g access point mode.		
	Specification WAN interface and the networking features should support The wireless network should support the following	Oty-66 No's [D-Link 2360 or equivalent] Details • DHCP client/Server/Relay and fixed IP address assignment. • PPOE client, PPPoE pass-through. • VPN pass-through. • NAT. • VLAN. • Switch and gateway mode. • 802.11b/g access point mode. • Support repeater mode.		
	Specification WAN interface and the networking features should support The wireless network should	Oty-66 No's [D-Link 2360 or equivalent] Details • DHCP client/Server/Relay and fixed IP address assignment. • PPOE client, PPPoE pass-through. • VPN pass-through. • NAT. • VLAN. • Switch and gateway mode. • 802.11b/g access point mode. • Support CPE mode.		
	Specification WAN interface and the networking features should support The wireless network should support the following	Oty-66 No's [D-Link 2360 or equivalent] Details DHCP client/Server/Relay and fixed IP address assignment. PPPoE client, PPPoE pass-through. VPN pass-through. NAT. VLAN. Switch and gateway mode. 802.11b/g access point mode. Support repeater mode. Support CPE mode. An 802.11b client will NOT force the wireless connections of		
	Specification WAN interface and the networking features should support The wireless network should support the following	Oty-66 No's [D-Link 2360 or equivalent] Details DHCP client/Server/Relay and fixed IP address assignment. PPPoE client, PPPoE pass-through. VPN pass-through. NAT. VLAN. Switch and gateway mode. 802.11b/g access point mode. Support repeater mode. Support CPE mode. An 802.11b client will NOT force the wireless connections of other devices to fall back to 802.11b for the same SSID(AP)		
	Specification WAN interface and the networking features should support The wireless network should support the following wireless standards.	Oty-66 No's [D-Link 2360 or equivalent] Details DHCP client/Server/Relay and fixed IP address assignment. PPPoE client, PPPoE pass-through. VPN pass-through. NAT. VLAN. Switch and gateway mode. 802.11b/g access point mode. Support repeater mode. Support CPE mode. An 802.11b client will NOT force the wireless connections of other devices to fall back to 802.11b for the same SSID(AP) AP model with multiple radios is preferred Comply US FCC Standard (Channel 1-11).		
	Specification WAN interface and the networking features should support The wireless network should support the following wireless standards. The RF setting should	Oty-66 No's [D-Link 2360 or equivalent] Details • DHCP client/Server/Relay and fixed IP address assignment. • PPPoE client, PPPoE pass-through. • VPN pass-through. • NAT. • VLAN. • Switch and gateway mode. • 802.11b/g access point mode. • Support repeater mode. • Support CPE mode. • An 802.11b client will NOT force the wireless connections of other devices to fall back to 802.11b for the same SSID(AP) • AP model with multiple radios is preferred • Comply US FCC Standard (Channel 1-11). • Allow 2.4GHz channel scan to show the signal and noise		
	Specification WAN interface and the networking features should support The wireless network should support the following wireless standards. The RF setting should	Oty-66 No's [D-Link 2360 or equivalent] Details • DHCP client/Server/Relay and fixed IP address assignment. • PPPoE client, PPPoE pass-through. • VPN pass-through. • NAT. • VLAN. • Switch and gateway mode. • 802.11b/g access point mode. • Support repeater mode. • Support CPE mode. • An 802.11b client will NOT force the wireless connections of other devices to fall back to 802.11b for the same SSID(AP) • AP model with multiple radios is preferred • Comply US FCC Standard (Channel 1-11). • Allow 2.4GHz channel scan to show the signal and noise figures on all channels.		
	Specification WAN interface and the networking features should support The wireless network should support the following wireless standards. The RF setting should	Oty-66 No's [D-Link 2360 or equivalent] Details • DHCP client/Server/Relay and fixed IP address assignment. • PPPoE client, PPPoE pass-through. • VPN pass-through. • NAT. • VLAN. • Switch and gateway mode. • Support repeater mode. • Support CPE mode. • An 802.11b /g access point mode. • An 802.11b client will NOT force the wireless connections of other devices to fall back to 802.11b for the same SSID(AP) • AP model with multiple radios is preferred • Comply US FCC Standard (Channel 1-11). • Allow 2.4GHz channel scan to show the signal and noise figures on all channels. • Allow manual/automatic channel selection.		
	Specification WAN interface and the networking features should support The wireless network should support the following wireless standards. The RF setting should	Oty-66 No's [D-Link 2360 or equivalent] Details DHCP client/Server/Relay and fixed IP address assignment. PPPoE client, PPPoE pass-through. VPN pass-through. NAT. VLAN. Switch and gateway mode. 802.11b/g access point mode. Support repeater mode. Support CPE mode. An 802.11b client will NOT force the wireless connections of other devices to fall back to 802.11b for the same SSID(AP) AP model with multiple radios is preferred Comply US FCC Standard (Channel 1-11). Allow 2.4GHz channel scan to show the signal and noise figures on all channels. Allow manual/automatic channel selection. Bandwidth control on RF- airtime control or throughput control.		
	Specification WAN interface and the networking features should support The wireless network should support the following wireless standards. The RF setting should	Oty-66 No's [D-Link 2360 or equivalent] Details • DHCP client/Server/Relay and fixed IP address assignment. • PPPoE client, PPPoE pass-through. • VPN pass-through. • NAT. • VLAN. • Switch and gateway mode. • Support repeater mode. • Support CPE mode. • An 802.11b /g access point mode. • An 802.11b client will NOT force the wireless connections of other devices to fall back to 802.11b for the same SSID(AP) • AP model with multiple radios is preferred • Comply US FCC Standard (Channel 1-11). • Allow 2.4GHz channel scan to show the signal and noise figures on all channels. • Allow manual/automatic channel selection.		
	Specification WAN interface and the networking features should support The wireless network should support the following wireless standards. The RF setting should support the following:	Oty-66 No's [D-Link 2360 or equivalent] Details DHCP client/Server/Relay and fixed IP address assignment. PPPoE client, PPPoE pass-through. VPN pass-through. NAT. VLAN. Switch and gateway mode. 802.11b/g access point mode. Support repeater mode. Support CPE mode. An 802.11b client will NOT force the wireless connections of other devices to fall back to 802.11b for the same SSID(AP) AP model with multiple radios is preferred Comply US FCC Standard (Channel 1-11). Allow 2.4GHz channel scan to show the signal and noise figures on all channels. Allow manual/automatic channel selection. Bandwidth control on RF- airtime control or throughput control. Transmit and receive diversity.		

SSID supports:	 Each SSID can have independent wireless encryption setting, e.g. no encryption, WEP, WPA and WPA2 etc and that will not affect other SSIDs. 	
	 Each SSID can have independent QoS configuration (fixed profiles include "Very High", "High", "Normal", "Low" as well as 	
	profiles according to TCP/UDP ports, TOS or WMM priority values)	
The wireless interface	Preferred AP association.	
should supports:	WDS.Auto ACK Timeout Calculation by Distance Input.	
	 Click to Connect 	
	MAC based access control.	
Quality of Service(QoS) Support	 Fixed QoS Policy (Very High-for Voice, High, Normal, Low) DHCP Relay & Server, DHCP Type-82. 	
Cappon	 ToS / 802.1p / 802.11e WMM. 	
	Traffic priorization-allow voice and video traffic to have higher relative transmission	
Video Support	priority transmission. • 2-3 simultaneous MPEG-2 or 4-6 MPEG-4 standard definition	
	streams or single 10 Mbps HD stream.	
WIFI-VOIP support	Should support WIFI-VOIP.	
Per SSID, the wireless interface should support the	 NO encryption 128-bit WEP (Shared Key and Dynamic WEP). 	
following encryption modes:	 128-bit TKIP-MIC. 	
Authoritication Comment	• 128-bit AES-CCMP.	
Authentication Support	 WPA (PSK or Dynamic Key by 802.1x). WPA2 (PSK or Dynamic Key by 802.1x). 	
	 Universal Access Method (UAM). 	
11000 (11-1	802.1x Mutual Authentication support.	
UAM (Universal Access Method)	 In this access mode, no authentication is needed and the PC can associate to the wireless interface of the AP freely. 	
802.1x Mutual Authentication	• For each SSID configured to use 802.1x authentication, the	
support	client PC cannot associate to the wireless interface unless the	
Radius Support	 client is authenticated successfully with 802.1x standard. Support Radius Server IP and port configuration. 	
	Support Radius Authentication.	
Management	Web-based Administration Tool.	
	 SNMP v1/v2c. SNMP Manager Access Control List. 	
	Remote Firmware Upgrade.	
	Performance Monitoring.	
	 RF Statistics Reporting. Radio Interference Management for APs.	
	Syslog Support.	
	TR-069 Support	
CAT-6 UTP Cable: Qty-		
Specification Type	Details Unshielded Twisted Pair, Category 6, TIA / EIA 568-C.2 &	
Type	ISO/IEC 11801	
Conductors	23 AWG solid bare copper	
Insulation	Polyethylene	
Jacket	Flame Retardant PVC	
Jacket Pair Separator	Flame Retardant PVC Cross-member (+) fluted Spline.	
Jacket Pair Separator Approvals	Flame Retardant PVC Cross-member (+) fluted Spline. (a) UL Listed / UL Verified (b) ETL verified to TIA / EIA Cat 6	
Jacket Pair Separator Approvals Operating temperature	Flame Retardant PVC Cross-member (+) fluted Spline. (a) UL Listed / UL Verified (b) ETL verified to TIA / EIA Cat 6 -20 Deg. C to +60 Deg. C	
Jacket Pair Separator Approvals Operating temperature Storage Temperature	Flame Retardant PVC Cross-member (+) fluted Spline. (a) UL Listed / UL Verified (b) ETL verified to TIA / EIA Cat 6 -20 Deg. C to +60 Deg. C -20 Deg. C to +80 Deg. C	
Jacket Pair Separator Approvals Operating temperature	Flame Retardant PVC Cross-member (+) fluted Spline. (a) UL Listed / UL Verified (b) ETL verified to TIA / EIA Cat 6 -20 Deg. C to +60 Deg. C	
Jacket Pair Separator Approvals Operating temperature Storage Temperature Frequency tested up to	Flame Retardant PVC Cross-member (+) fluted Spline. (a) UL Listed / UL Verified (b) ETL verified to TIA / EIA Cat 6 -20 Deg. C to +60 Deg. C -20 Deg. C to +80 Deg. C Minimum 550 MHz	
Jacket Pair Separator Approvals Operating temperature Storage Temperature Frequency tested up to Packing Cable Outer Diameter Delay Skew	Flame Retardant PVC Cross-member (+) fluted Spline. (a) UL Listed / UL Verified (b) ETL verified to TIA / EIA Cat 6 -20 Deg. C to +60 Deg. C -20 Deg. C to +80 Deg. C Minimum 550 MHz Box of 305 meters .23 inches 45ns MAX.	
Jacket Pair Separator Approvals Operating temperature Storage Temperature Frequency tested up to Packing Cable Outer Diameter Delay Skew Bend Radius	Flame Retardant PVC Cross-member (+) fluted Spline. (a) UL Listed / UL Verified (b) ETL verified to TIA / EIA Cat 6 -20 Deg. C to +60 Deg. C -20 Deg. C to +80 Deg. C Minimum 550 MHz Box of 305 meters .23 inches 45ns MAX. 4 * Cable Diameter	
Jacket Pair Separator Approvals Operating temperature Storage Temperature Frequency tested up to Packing Cable Outer Diameter Delay Skew Bend Radius UL/NEC Ratings	Flame Retardant PVC Cross-member (+) fluted Spline. (a) UL Listed / UL Verified (b) ETL verified to TIA / EIA Cat 6 -20 Deg. C to +60 Deg. C -20 Deg. C to +80 Deg. C Minimum 550 MHz Box of 305 meters .23 inches 45ns MAX. 4 * Cable Diameter CMR Rated	
Jacket Pair Separator Approvals Operating temperature Storage Temperature Frequency tested up to Packing Cable Outer Diameter Delay Skew Bend Radius UL/NEC Ratings Mutual Capacitance	Flame Retardant PVC Cross-member (+) fluted Spline. (a) UL Listed / UL Verified (b) ETL verified to TIA / EIA Cat 6 -20 Deg. C to +60 Deg. C -20 Deg. C to +80 Deg. C Minimum 550 MHz Box of 305 meters .23 inches 45ns MAX. 4 * Cable Diameter CMR Rated 5.6 NF MAX /100 Mtr.	
Jacket Pair Separator Approvals Operating temperature Storage Temperature Frequency tested up to Packing Cable Outer Diameter Delay Skew Bend Radius UL/NEC Ratings Mutual Capacitance Conductor Resistance	Flame Retardant PVC Cross-member (+) fluted Spline. (a) UL Listed / UL Verified (b) ETL verified to TIA / EIA Cat 6 -20 Deg. C to +60 Deg. C -20 Deg. C to +80 Deg. C Minimum 550 MHz Box of 305 meters .23 inches 45ns MAX. 4 * Cable Diameter CMR Rated	
Jacket Pair Separator Approvals Operating temperature Storage Temperature Frequency tested up to Packing Cable Outer Diameter Delay Skew Bend Radius UL/NEC Ratings Mutual Capacitance	Flame Retardant PVC Cross-member (+) fluted Spline. (a) UL Listed / UL Verified (b) ETL verified to TIA / EIA Cat 6 -20 Deg. C to +60 Deg. C -20 Deg. C to +80 Deg. C Minimum 550 MHz Box of 305 meters .23 inches 45ns MAX. 4 * Cable Diameter CMR Rated 5.6 NF MAX /100 Mtr. 66.58 Ohms Max / KM 536 ns/100 Mtrs. MAX @ 250 Mhz Attenuation, Pair-to-pair and PS NEXT, ELFEXT and PSELFEXT,	
Jacket Pair Separator Approvals Operating temperature Storage Temperature Frequency tested up to Packing Cable Outer Diameter Delay Skew Bend Radius UL/NEC Ratings Mutual Capacitance Conductor Resistance Propagation Delay Performance characteristics	Flame Retardant PVC Cross-member (+) fluted Spline. (a) UL Listed / UL Verified (b) ETL verified to TIA / EIA Cat 6 -20 Deg. C to +60 Deg. C -20 Deg. C to +80 Deg. C Minimum 550 MHz Box of 305 meters .23 inches 45ns MAX. 4 * Cable Diameter CMR Rated 5.6 NF MAX /100 Mtr. 66.58 Ohms Max / KM 536 ns/100 Mtrs. MAX @ 250 Mhz Attenuation, Pair-to-pair and PS NEXT, ELFEXT and PSELFEXT, Return Loss, ACR and PS ACR	
Jacket Pair Separator Approvals Operating temperature Storage Temperature Frequency tested up to Packing Cable Outer Diameter Delay Skew Bend Radius UL/NEC Ratings Mutual Capacitance Conductor Resistance Propagation Delay Performance characteristics ROHS Compliance	Flame Retardant PVC Cross-member (+) fluted Spline. (a) UL Listed / UL Verified (b) ETL verified to TIA / EIA Cat 6 -20 Deg. C to +60 Deg. C -20 Deg. C to +80 Deg. C Minimum 550 MHz Box of 305 meters .23 inches 45ns MAX. 4 * Cable Diameter CMR Rated 5.6 NF MAX /100 Mtr. 66.58 Ohms Max / KM 536 ns/100 Mtrs. MAX @ 250 Mhz Attenuation, Pair-to-pair and PS NEXT, ELFEXT and PSELFEXT, Return Loss, ACR and PS ACR ROHS Complaint	
Jacket Pair Separator Approvals Operating temperature Storage Temperature Frequency tested up to Packing Cable Outer Diameter Delay Skew Bend Radius UL/NEC Ratings Mutual Capacitance Conductor Resistance Propagation Delay Performance characteristics ROHS Compliance UTP Jack/ IO: Qty-64 N	Flame Retardant PVC Cross-member (+) fluted Spline. (a) UL Listed / UL Verified (b) ETL verified to TIA / EIA Cat 6 -20 Deg. C to +60 Deg. C -20 Deg. C to +80 Deg. C Minimum 550 MHz Box of 305 meters .23 inches 45ns MAX. 4 * Cable Diameter CMR Rated 5.6 NF MAX /100 Mtr. 66.58 Ohms Max / KM 536 ns/100 Mtrs. MAX @ 250 Mhz Attenuation, Pair-to-pair and PS NEXT, ELFEXT and PSELFEXT, Return Loss, ACR and PS ACR ROHS Complaint	
Jacket Pair Separator Approvals Operating temperature Storage Temperature Frequency tested up to Packing Cable Outer Diameter Delay Skew Bend Radius UL/NEC Ratings Mutual Capacitance Conductor Resistance Propagation Delay Performance characteristics ROHS Compliance	Flame Retardant PVC Cross-member (+) fluted Spline. (a) UL Listed / UL Verified (b) ETL verified to TIA / EIA Cat 6 -20 Deg. C to +60 Deg. C -20 Deg. C to +80 Deg. C Minimum 550 MHz Box of 305 meters .23 inches 45ns MAX. 4 * Cable Diameter CMR Rated 5.6 NF MAX /100 Mtr. 66.58 Ohms Max / KM 536 ns/100 Mtrs. MAX @ 250 Mhz Attenuation, Pair-to-pair and PS NEXT, ELFEXT and PSELFEXT, Return Loss, ACR and PS ACR ROHS Complaint Io's Details PCB based, Unshielded Twisted Pair, Category 6, TIA /EIA 568-	
Jacket Pair Separator Approvals Operating temperature Storage Temperature Frequency tested up to Packing Cable Outer Diameter Delay Skew Bend Radius UL/NEC Ratings Mutual Capacitance Conductor Resistance Propagation Delay Performance characteristics ROHS Compliance UTP Jack/ IO: Qty-64 N Specification Type	Flame Retardant PVC Cross-member (+) fluted Spline. (a) UL Listed / UL Verified (b) ETL verified to TIA / EIA Cat 6 -20 Deg. C to +60 Deg. C -20 Deg. C to +80 Deg. C Minimum 550 MHz Box of 305 meters .23 inches 45ns MAX. 4 * Cable Diameter CMR Rated 5.6 NF MAX /100 Mtr. 66.58 Ohms Max / KM 536 ns/100 Mtrs. MAX @ 250 Mhz Attenuation, Pair-to-pair and PS NEXT, ELFEXT and PSELFEXT, Return Loss, ACR and PS ACR ROHS Complaint Ior's Details PCB based, Unshielded Twisted Pair, Category 6, TIA /EIA 568-C.2 and ISO/IEC 11801	
Jacket Pair Separator Approvals Operating temperature Storage Temperature Frequency tested up to Packing Cable Outer Diameter Delay Skew Bend Radius UL/NEC Ratings Mutual Capacitance Conductor Resistance Propagation Delay Performance characteristics ROHS Compliance UTP Jack/ IO: Qty-64 N Specification Type Modular Jack	Flame Retardant PVC Cross-member (+) fluted Spline. (a) UL Listed / UL Verified (b) ETL verified to TIA / EIA Cat 6 -20 Deg. C to +60 Deg. C -20 Deg. C to +80 Deg. C Minimum 550 MHz Box of 305 meters .23 inches 45ns MAX. 4 * Cable Diameter CMR Rated 5.6 NF MAX /100 Mtr. 66.58 Ohms Max / KM 536 ns/100 Mtrs. MAX @ 250 Mhz Attenuation, Pair-to-pair and PS NEXT, ELFEXT and PSELFEXT, Return Loss, ACR and PS ACR ROHS Complaint Io's Details PCB based, Unshielded Twisted Pair, Category 6, TIA /EIA 568-C.2 and ISO/IEC 11801 750 mating cycles	
Jacket Pair Separator Approvals Operating temperature Storage Temperature Frequency tested up to Packing Cable Outer Diameter Delay Skew Bend Radius UL/NEC Ratings Mutual Capacitance Conductor Resistance Propagation Delay Performance characteristics ROHS Compliance UTP Jack/ IO: Qty-64 N Specification Type Modular Jack Wire terminal	Flame Retardant PVC Cross-member (+) fluted Spline. (a) UL Listed / UL Verified (b) ETL verified to TIA / EIA Cat 6 -20 Deg. C to +60 Deg. C -20 Deg. C to +80 Deg. C Minimum 550 MHz Box of 305 meters .23 inches 45ns MAX. 4 * Cable Diameter CMR Rated 5.6 NF MAX /100 Mtr. 66.58 Ohms Max / KM 536 ns/100 Mtrs. MAX @ 250 Mhz Attenuation, Pair-to-pair and PS NEXT, ELFEXT and PSELFEXT, Return Loss, ACR and PS ACR ROHS Complaint Io's Details PCB based, Unshielded Twisted Pair, Category 6, TIA /EIA 568-C.2 and ISO/IEC 11801 750 mating cycles 200 termination cycles	
Jacket Pair Separator Approvals Operating temperature Storage Temperature Frequency tested up to Packing Cable Outer Diameter Delay Skew Bend Radius UL/NEC Ratings Mutual Capacitance Conductor Resistance Propagation Delay Performance characteristics ROHS Compliance UTP Jack/ IO: Qty-64 N Specification Type Modular Jack	Flame Retardant PVC Cross-member (+) fluted Spline. (a) UL Listed / UL Verified (b) ETL verified to TIA / EIA Cat 6 -20 Deg. C to +60 Deg. C -20 Deg. C to +80 Deg. C Minimum 550 MHz Box of 305 meters .23 inches 45ns MAX. 4 * Cable Diameter CMR Rated 5.6 NF MAX /100 Mtr. 66.58 Ohms Max / KM 536 ns/100 Mtrs. MAX @ 250 Mhz Attenuation, Pair-to-pair and PS NEXT, ELFEXT and PSELFEXT, Return Loss, ACR and PS ACR ROHS Complaint Io's Details PCB based, Unshielded Twisted Pair, Category 6, TIA /EIA 568-C.2 and ISO/IEC 11801 750 mating cycles	

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	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
	Beryllium copper, plated with 1.27 mm [.000050] thick gold in
Jack contacts	localized area and 3.81 mm [.000150] minimum thick tin-lead in
	solder area over 1.27 mm [.000150] 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 Charac	teristics Attenuation, NEXT, PS NEXT, FEXT and Return Loss
ROHS Compliance	ROHS Complaint
	n Panel: Qty-08 No's
Specification	Details
Туре	24-port, Modular, PCB based, Unshielded Twisted Pair, Category
туре	6, TIA / EIA 568-C.2 and ISO/IEC 11801
Ports	24
Port arrangement	Configured as 6 Port Module with individually replaceable CAT-6
1 on analysinon	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
	I 3': Qty-64 No's
Specification	n Details
Туре	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
	Single Gang, BS
Туре	ABS / UL94 V-0
Type Material	MD3 / UL74 V-U
Material	One/Two
Material No. of ports	One/Two
Material No. of ports Shutter	One/Two
Material No. of ports Shutter Spring of Shutter	One/Two
Material No. of ports Shutter Spring of Shutter Holder, Jack	One/Two
	MD3 / UL74 V-U
Material No. of ports Shutter Spring of Shutter	One/Two
Material No. of ports Shutter Spring of Shutter	One/Two

PRICE BID (ON THE LETTER HEAD OF THE BIDDER)

No. 1. Rack Mountable Manageable	f Description of the Goods Layer 2 Access Switch with 24-port 10/100 Mbps port SFP and UTP Uplinks Ports. [Cisco WS-C2960-plus-	Qty 08 Nos.	Unit Rate in Rs	In Figures	In Words	Any other charges
	SFP and UTP Uplinks Ports. [Cisco WS-C2960-plus-	08 Nos.				(if any)
	ee years of Comprehensive Warranty].					
Mbps port and having an opt	e Layer 2 Access Switch with 24-port 10/100/1000 ion of atleast 4 SFP based Gigabit Ethernet Ports in [Cisco WS2960X TS-L or equivalent with three years	01 No.				
3. 1000BASE-T SFP transceive (Cisco GLC-TSPF) or equivale	er module compatible with Cisco WS2960X TS-L	01 No.				
	figuration of Access Points with dual antenna, dual ee year comprehensive warranty. Wireless Access alent.	66 Nos.				
5. UTP Components		-				
6. Cabling and Wiring/Installation	ı.	-				
(Detailed Specification attache	ed at 'Annexure-B')					

Note: Each bidder (except OEM) must submit Manufacturer Authorization Form (MAF) from OEM (of Current Financial Year i.e. 2016-2017) with bid. [Sample MAF is attached in Annexure-E]

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

SI. 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] ANNEXURE-E
То	No	MANUFACTURERS AUTHORIZATION FORM (MAF) (ON THE LETTER HEAD OF THE BIDDER)	Dated
		anufacturer to fill in this Form in accordance with the instructions indicated. This I be signed by a person with the proper authority to sign documents that are bin	

Date: [insert date (as day, month and year) of Bid Submission] Tender No.: [insert number from Invitation For Bids]

To: [insert complete name and address of Purchaser]

WHEREAS

We [insert complete name of Manufacturer], who are official manufacturers of [insert type of goods manufactured], having factories at [insert full address of Manufacturer's factories], do hereby authorize [insert complete name of Bidder] to submit a bid the purpose of which is to provide the following Goods, manufactured by us [insert name and or brief description of the Goods], and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 21 of the General Conditions of Contract, with respect to the Goods offered by the above firm.

Signed: [insert signature(s) of authorized representative(s) of the Manufacturer] Name: [insert complete name(s) of authorized representative(s) of the Manufacturer] Title: [insert title] Duly authorized to sign this Authorization on behalf of: [insert complete name of Bidder]

Dated on _ day of [insert date of signing]

Yours faithfully, (Name) (Name of manufacturers)

Note: This letter of authority should be on the letterhead of the manufacturer and should be signed by a person competent and having the power of attorney to legally bind the manufacturer. It should be included by the Bidder in its bid.

[8/8]