|| यतो धर्मरततो जयः ||

MNLUA/Admin/NIT-320 Dt: 19/05/2023

Maharashtra National Law University, Aurangabad

NIT No.: MNLUA/Admin/NIT/2023/02
Tender for Network & Hardware Equipment

Tender Reference Number	MNLUA/ARC22-23/OFC
Date of Issue/Publish	20/05/2023
Due Date & Time/Submission End Date	05/06/2023 17:00 pm
Tender Opening Date (Technical Bid)	07/06/2023
Name, Address & Contact No. of Tenderer	The Registrar, Maharashtra National Law University, Paithan Road, Kanchanwadi campus, Aurangabad - 431005
Tender Fee	₹. 17,000 /- (Non-Refundable)
EMD	₹. 5,25,000/-
Website	www.mahatenders.gov.in
Pre-Bid Meeting Date	30/05/2023 at 15:00 pm

ABOUT UNIVERSITY:

The State of Maharashtra realizing the importance of quality legal education and the need of well-trained law graduates for the Bar, Bench, and Professions took a very bold decision by creating three National Law Universities in the State of Maharashtra at Mumbai, Nagpur and Aurangabad. Further, all three are independent institutions created under the Maharashtra National Law University Act, 2014. The latest one added to the list of National Law Universities in India is the Maharashtra National Law University, Aurangabad, which commenced from March 16, 2017. The commencement of the University has fulfilled the aspirations of the people of the Marathwada region for an institution of national importance in Aurangabad. The law university is set to make a beginning with admissions from the Academic Year 2017-18. The University entered into an MOU with the Convenor, CLAT 2017 to make admissions from the merit list of the qualified CLAT-2017 aspirants. The authorities are making all efforts to make the admissions and to provide all facilities to the students who take admission in MNLU-Aurangabad.

Registrar
Maharashtra National Law University
Aurangabad - 431 005

A) PROJECT SCOPE

Sr. No.	ITEM DESCRIPTION		Qty	Amount
1]	**NETGEAR** Layer3 Core Switch - (XSM4348S) 24 1/10G Copper + 24 1/10G SFP+ Ports, 960Gbps Throughput, Stackable Managed Layer3 Switch **Technical Specifications**		01	
	1.1) Physical Interfaces	24 # 1/10G Base-T Copper Ports (Dedicated)		
		24 # 1/10G Base-X Fiber SFP Ports (Dedicated)		
		Ethernet: Out-of-band 1G port (Front)		
		Console: RJ45 RS232 (Front)		
		Console: Mini-USB (Front)		
		Storage: USB (Front)		
		Full-width 1-unit 1U rack mount		
		2 PSUs in RPS mode		
	1.2) CPU/ Memory	CPU: 800 MHz		
		RAM: 1 GB		
		Packet buffer memory: 56 MB		
		Flash: 256 MB		
	1.3) Performance	Stack height: 8 switches		
		Mixed Stacking on 10G & 1G models		
		Non-Stop Forwarding Failover		
		Switching fabric: 960 Gbps Line-Rate (non blocking fabric)		
		Throughput: 714 Mpps		
		Forwarding mode: Store-and-forward		
		Address database size: 128K MAC addresses (48-bit MAC address)		
		Number of VLANs: 4,093 (IEEE 802.1Q) simultaneously		
		Number of multicast groups= 2K IPv4		
		Number of multicast groups= 2K IPv6		
		ARP/NDP= 8K		
		Number of LAGs (802.3ad): 128 LAGs with up to 8 ports per group		
		Number of hardware queues for QoS: 8 (Standalone)		
		Number of routes: 12K IPv4 Unicast routes		
		Number of routes: 4K IPv6 Unicast routes		
		Jumbo frame support: up to 9KB packet size		
		Mean time between failures (MTBF): 133,000 hours or more		
		sFlow=416 samplers, 416 pollers, 8 receivers		
	1.4) L2 Services	Protocol based VLAN		
		IP Subnet		
		IPX		
		ARP		

		Subnet based VLAN			
		MAC based VLAN			
		Voice VLAN			
		Private Edge VLAN			
		Private VLAN			
		Guest VLAN			
		Double VLAN Tagging (QoQ)			
		GARP with GVRP/GMRP			
		MVR (Multicast VLAN Registration)			
		Multiple Registration Protocol (MRP)			
		Multicast VLAN Registration Protocol (MVRP)			
		LAG Hashing			
		LAG Member Port Flaps Tracking			
		UDLD support			
		Distributed Link Aggregation			
		Storm Control			
		Link Dependency			
		Spanning Tree Protocol			
		Per VLAN STP (PVSTP) with Fast Uplink and Fast Backbone			
		Per VLAN Rapid STP (PVRSTP)			
		STP Loop Guard			
		STP Root Guard			
		BPDU Guard			
		STP BPDU Filtering			
		STP BPDU Flooding			
		IGMP v2/v3 Snooping support			
		MLD v1/v2 Snooping support			
		Expedited Leave Function			
		Static L2 Multicast Filtering			
		MLDv1/2 Snooping Support			
		IGMPv2/3 Snooping Support			
	1.5) L3 Services	IGMP Proxy			
		Policy based routing			
		MLD Proxy			
		Any Source Multicast (ASM)			
		Source Specific Multicast (SSM)			
		Multicast streams routing between subnets, VLANs			
		Multicast Static Routes (IPv4, IPv6)			
		DVMRP			
		Neighbor discovery (IPv4, IPv6)			
		PIM-DM (IPv4, IPv6)			
		PIM-SM (IPv4, IPv6)			
		PIM multi-hop RP support			
		IPMC replication (hardware support)			
		DHCP Client (IPv4, IPv6)			
		DHCP Server (IPv4, IPv6)			
		DHCP Snooping (IPv4, IPv6)			
		DHCP/ BootP Relay (IPv4, IPv6)			
		DHCP options 66, 67, 150, and 55, 125			
		Static Routing (IPv4, IPv6)			

		Port based Routing
		ECMP Static Routing
		Port Based Routing
		VLAN Routing
		RIP v1 and v2
		OSPF v2 and v3
		OSPF Flood Blocking
		Route Redistribution
		VRRP
		VRRP Route/Interface Tracking
		Loopback Interfaces
		Tunnel interfaces
		Router Discovery
		IP Helper
		IP Source Guard
		IP Event Dampening
		ECMP
		Proxy ARP
		Multinet ting
		ICMP v4 and v6
		IPv4/IPv6
		DNS v4 and v6
		IPv6 Routing
		Configured v6-over-v4 tunnels
		Automatic (6to4) tunnels
	1.6) QoS	IEEE 802.1p CoS
		DiffServ QoS
		WRED (Weighted Deficit Round Robin)
		Single Rate Policing
		Strict Priority queue technology
		Auto-VoIP
		iSCSI Flow Acceleration
		IP DSCP
		IP Precedence
		IP TOS
		L3 IPv6 Flow Label
		Interface Traffic Shaping
		PHB Support
		Minimum Bandwidth per-interface
	1.7) Security	Broadcast, Multicast and Unicast Network Storm Protection
		CPU Protection
		DoS attack protection
		ICMP throttling
		Management ACL
		Radius accounting
		TACACS+
		L2/L3/L4 Access Control List (ACL)
		MAC, IPv4, IPv6, TCP, UDP ACL
		Protocol based ACL
		ACL over VLAN
		Dynamic ACL

		IEEE 802.1x Radius Port Access Authentication		
		802.1x MAC Address Authentication Bypass (MAB)		
		Port Security		
		Dynamic ARP Inspection		
		MAC Filtering		
		Port MAC Locking		
	1.8) IEEE Network Protocols	IEEE 802.3 10Base-T		
		IEEE 802.3 Ethernet		
		IEEE 802.3i 10BASE-T		
		IEEE 802.3u 100BASE-T		
		IEEE 802.3ab 1000BASE-T		
		IEEE 802.3z Gigabit Ethernet 1000BASE-SX/LX		
		IEEE 802.3ae 10-Gigabit Ethernet		
		IEEE 802.3ad Trunking (LACP)		
		IEEE 802.1AB LLDP with ANSI/TIA-1057 (LLDP-MED)		
		IEEE 802.1D Spanning Tree (STP)		
		IEEE 802.1s Multiple Spanning Tree (MSTP)		
		IEEE 802.1w Rapid Spanning Tree (RSTP)		
		IEEE 802.1p Quality of Service		
		IEEE 802.1Q VLAN tagging		
		IEEE 802.1v protocol-based VLAN		
		IEEE 802.1X Radius Network Access Control		
		IEEE 802.3x flow control		
		GMRP — Dynamic L2 multicast registration		
		GVRP — Dynamic VLAN registration		
		GARP -Generic Attribute Registration Protocol		
	1.9) Management	ISDP (Industry Standard Discovery Protocol)		
		Out of band Management		
		802.1ab LLDP and LLDP-MED		
		SNMP v1, v2 and v3		
		RMON 1, 2, 3, 9		
		sFlow		
		Command Line Interface (CLI)		
		Web-based graphical user interface (GUI)		
		Admin access control via Radius and TACACS+		
		Telnet		
		Dual Software (Firmware) images		
		Dual Configurations file (Text-based)		
		Radius accounting		
		Malicious Code Detection		
		SNTP		
		XMODEM		

		Port Mirroring		
		Cable Test Utility		
		SSH v1/v2		
		SSL/HTTPS and TLS v1.0 for web-based access		
		File Transfer (uploads, downloads) through TFTP/HTTP		
		SCP/ SFTP/ HTTPS		
		Syslog		
		Non disruptive Config Management		
		Remote Port Mirroring (RSPAN)		
		Persistent log supported		
	1.10) Network Traffic	Access Control Lists (ACLs) L2 / L3 / L4		
		Time-based ACLs		
		ACL over VLANs		
		IPv6 RA Guard Stateless Mode		
		Network Authentication Successive Tiering		
		802.1x MAC Address Authentication Bypass (MAB)		
	1.11) LED	Per port: Speed, link, activity		
		Power, Fan, Stack Master, Stack ID		
		Cooling front to back		
	1.12) Environmental	Operating Temperature: 32° to 122°F (0° to 50°C)		
		Operating Humidity: 90% maximum relative humidity, non-condensing		
		Storage Temperature: – 4° to 158°F (– 20° to 70°C)		
		Storage Humidity: 95% maximum relative humidity, non-condensing		
	1.13) Certifications	CE mark, commercial		
		FCC Part 15 Class A, VCCI Class A		
		Class A EN 55022 (CISPR 22) Class A		
		Class A C-Tick		
		EN 50082-1		
		EN 55024		
		CSA certified (CSA 22.2 #950)		
		UL listed (UL 1950)/cUL IEC 950/EN 60950		
	1.14) Warranty	True Lifetime Hardware replacement warranty		
		Lifetime free latest firmware support		
		Replacement with New Product Only No refurbished Products.		

2]	**NETGEAR L3- Network Switch** 24-Port 1/10G SFP+ Managed Switch with480Gbps Throughput (XMS 4324FS)		**3**	
	Technical Specifications : 24-Port 1/10G SFP+ Managed Switch with480Gbps Throughput (XMS 4324FS)			
3]	**NETGEAR L2- NETWORK Switch GS324TP**		**52**	

	Technical Specifications : (24-port 10/100/1000 Base-T Gigabit PoE+ Managed Switch)	
3.1) Physical Specifications	24 # 10/100/1000 Base-T auto-sensing PoE+ ports	
	2 dedicated 100/1000 Base-X Fiber SFP ports	
3.2) Performance Specification	CPU: 800MHz single core, 512MB DDR RAM, 2MB SPI NOR, 128MB FLASH	
	Bandwidth: 52 Gbps non-blocking	
	Mean Time Between Failures (MTBF): 1,328,429 hrs (152 yrs)	
	Heat Dissipation (worst case, all ports used, full PoE, line-rate traffic) (BTU/hr):- Max: 784.88 BTU/hr	
	Forwarding modes: Store-and-forward	
	4 Priority queues	
	Weighted Round Robin (WRR) and Strict Priority	
	MAC Address database size: 16,000 media access control (MAC) addresses	
	VLAN: 64	
	512 Multicast groups	
	Number of DHCP snooping bindings: 8K	
	Access Control Lists (ACLs): 100 shared for MAC (ingress)	
	Packet forwarding rate (64 byte packet size) (Mpps) : 38.6	
	Jumbo frame support: Up to 9K packet size	
	Packet buffer memory (Dynamically shared across only used ports): 0.5 MB	
	1G Copper Latency (64-byte packets): 3.734µs	
	1G Fiber Latency (64-byte packets): 2.896µs	
	Max power (worst case, all ports used, full PoE, line-rate traffic) (Watts): 229.9W	
	PoE budget: 190W	
3.3) IEEE Network Protocols	IEEE 802.3 Ethernet	
	IEEE 802.3u 100BASE-T	
	IEEE 802.1Q VLAN Tagging	
	IEEE 802.3ab 1000BASE-T	
	IEEE 802.3af PoE	
	IEEE 802.3at PoE+	
	IEEE 802.3az Energy Efficient Ethernet (EEE)	
	IEEE 802.3ad Trunking (LACP)	
	IEEE 802.3z Gigabit Ethernet 1000BASE-SX/LX	
	IEEE 802.3x Full-Duplex Flow Control	
	IEEE 802.1AB LLDP with ANSI/TIA-1057 (LLDP-MED)	
	IEEE 802.1p Class of Service	

			IEEE 802.1D Spanning Tree (STP)		
			IEEE 802.1s Multiple Spanning Tree (MSTP)		
			IEEE 802.1w Rapid Spanning Tree (RSTP)		
			IEEE 802.1X Radius network access control		
	3.4) Network Security and Traffic		IEEE 802.1x		
			Guest VLAN		
			RADIUS-based VLAN assignment via .1x		
			RADIUS accounting		
			Network Storm Protection		
			DoS attacks prevention		
			Broadcast, Unicast, Multicast Protection		
			Access Control Lists (ACLs) L2 / L3 / L4		
			IP-based ACLs (IPv4)		
			MAC-based ACL		
			TCP/UDP-based ACL		
			MAC lockdown		
			MAC lockdown by the number of MACs		
			IEEE 802.1x Radius Port Access Authentication		
			Control MAC # Static entries: 48		
			IEEE 802.1Q VLAN Tagging		
	3.5) L2 Services		Video VLAN		
			Voice VLAN		
			IEEE 802.3ad - LAGs - LACP (8 LAGS with max. of 8 members in each LAG)		
			Broadcast Storm Control		
			IGMP Snooping (v1, v2 and v3)		
			IGMP Snooping queriers		
	3.6) Network Monitoring and Discovery Services		802.1ab LLDP		
			SNMP V1, V2, V3		
			RMON 1,2,3,9		
	3.7) Quality of Service (QoS)		Port-based rate limiting: Egress		
			Port-based QoS		
			DiffServ QoS		
			IEEE 802.1p COS		
			IPv4 DSCP		
			IPv4 ToS		
	3.8) Management		Password management		
			Configurable Management VLAN		
			Admin access control via Radius and TACACS+		
			Web-based graphical user interface (GUI)		
			Dual Software (firmware) image		
			SNTP client over UDP port 123		
			SNMP v1/v2		
			SNMP v3 with multiple IP addresses		
			RMON 1,2,3,9		
			Port Mirroring		
			Many to One Port Mirroring		
			Cable Test utility		
			SSL/HTTPS and TLS v1.2 for web-based access		
			TFTP/HTTP File transfers (uploads, downloads)		
			HTTP Download (firmware)		
			Syslog (RFC 3164)		

3.9) LEDs	Per port: Speed, Link, Activity	
	Per device: Power, Fan, PoE Max	
3.10) Environmental Conditions	Operating Temperature: 0° to 45° C (32° to 113° F)	
	Operating Humidity: 95% maximum relative humidity, non-condensing	
	Storage Temperature: – 4° to 158°F (–20° to 70°C)	
	Storage Humidity: 95% maximum relative humidity, non-condensing	
	Operating Altitude : 10,000ft (3,000m) maximum	
3.11) Certifications	CE mark, commercial	
	FCC Part 15 Class A, VCCI Class A	
	Class A EN 55022 (CISPR 22) Class A	
	Class A C-Tick	
	EN 50082-1	
	47 CFR FCC Part 15, SubpartB, Class A	
	CCC	
3.12) Safety	UL listed (UL 1950)/cUL IEC 950/EN 60950	
	CB report / certificate IEC 60950-1:2005 (ed.2)+A1:2009+A2:2013	
	CE LVD: EN 60950-1: 2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013	
	BSMI: CNS 14336-1	
3.13) Warranty and Support	5 Years hardware replacement warranty	
	Replacement with New Product Only No refurbished Products.	

4)

Single Mode 1G SFP MODULE (AGM732F)   **110**

Technical Specifications	
4.1) SFP Module	1000Base-LX Fiber SFP
	LC duplex connector
	1310 nm, for distances up to 10 km
	Single Mode Fiber
	ROHS Compliant
	Compliant with SFP Transceiver MSA specification
	Compliant with Specifications for IEEE 802.3z/Gigabit Ethernet
	Compliant with Industry Standard RFT Electrical Connector and Cage
	Single + 3.3V Power Supply and TTL Logic Interface
	EEPROM with Serial ID Functionality
	Laser Class 1 Product which comply with the requirements of IEC 60825-1 and IEC 60825-2

		4.2) Warranty and Support	5 Years Hardware Replacement Warranty		
			Replacement with New Product Only No refurbished Products.		

				08	
5)		**Single Mode 10G SFP+ Module (AXM762)**			

Technical Specifications	
5.1) SFP+ Module	10GBase-LR Fiber SFP+
	LC duplex connector
	1310nm Wavelength
	2m - 10km for 9/125 um SMF
	Single Mode Fiber
	ROHS Compliant
	Compliant with SFP+ Transceiver MSA specification
	Compliant with Specifications for IEEE 802.3ae 10-Gigabit Ethernet Over Fiber
	Compliant with Industry Standard RFT Electrical Connector and Cage
	Operating Temperature 32 -158° F (0 - 70°C)
	MTBF 4,986,536 hr (569 years)
	Power Consumption <1.5w
	UL 1950 CSA 22.2 No. 950
5.2) Warranty and Support	5 Years Hardware replacement warranty
	Replacement with New Product Only. No refurbished Products.

				183	
6)		**NETGEAR Dual Band WiFi Access Point (WAX615)**			

Technical Specifications (2 x 2 Dual Band Wireless-AX Wave2 Access Point)	
6.1) Physical Interfaces	One 100/1000/2.5GBASE-T Gigabit Ethernet (RJ-45) ports with Auto Uplink (Auto MDI-X) supporting IEEE 802.3af or 802.3at Power over Ethernet (PoE)
	Two (2) Internal 2.9/2.8dBi (2.4GHz/5GHz) antenna
	Four (4) LED: Power and Cloud connection; LAN speed; 2.4GHz status; 5.0GHz status
	Power adapter (not included): 12V DC, 2.5A
6.2) Standards	5.0GHz: 802.11a/n/ac/ax; 2.4GHz: 802.11b/g/n/ax
	IEEE 802.11ax WIFI 6 standard
	WMM - Wireless Multimedia Prioritization
	WDS- Wireless Distribution System
	Power over Ethernet (PoE) IEEE 802.3af/802.3at
6.3) Security	Wi-Fi Protected Access (WPA, WPA2, WPA3), 802.11i
	WPA2 Enterprise
	Wireless access control to identify authorized wireless network devices
	MAC address filtering with access control
	802.1x RADIUS support with EAP TLS, TTLS, PEAP
	Neighbor AP detection
	VLAN Support
	Secure Socket Layer (SSL)
	Guest Network/Captive Portal

		Bandwidth management		
		Link Layer Discovery Protocol		
	6.4) Network Management	Cloud based App Management for setup, monitoring and management from anywhere anytime (Remote configuration and management)		
		Easy-to-use Web browser-based management GUI		
	6.5) Manageability	As standalone		
		Centralized Management through Mobile Application		
	6.6) Advanced Wireless Features	Wireless Distribution System (WDS)		
		Bridge mode: Point-to-point wireless WDS mode		
		Bridge mode: Point-to-multipoint wireless WDS mode		
		Repeater mode		
		Adjustable Transmit Power Control (TPC)		
		Wireless backhaul to form Mesh Network		
		Device detection		
		Identify type of wireless clients in the network		
		PoE power consumption: 21.2W		
	6.7) Other Specifications	Business class WiFi based on next generation 802.11ax WiFi 6 technology on both 5.0GHz and 2.4GHz bands. Backward compatible to 802.11b/g/n/a/ac		
		Dual band 2x2 (2.4GHz and 5.0GHz) 4 streams of data for an aggregate throughput of up to 3Gbps		
		Theoretical Throughput per Band: 5.0GHz: 2400Mbps, 2.4GHz: 600Mbps		
		Orthogonal Frequency Division Multiple Access (OFDMA)		
		Multi-Gigabit Support		
		Target Wake Time (TWT)		
		Basic Service Set Coloring (BSS Coloring)		
		Bandsteering		
		Block SSID Broadcast		
		Ceiling mounting / Wall mounting		
		Bidir and MU-MIMO support		
	6.8) Warranty and Support	5 Years Hardware Replacement Warranty	**183**	
		5 Years Centralized Management license must be included		
		5 Years free latest firmware support		
		Replacement with New Product Only. No Refurbished Products.		

7]	**SOPHOS-Firewall of XGS 2300 Xstream protection Sophos**		01	
	Feature set			
	7.1)	**General Requirement**		
	7.1.1)	Must have a 64-bit hardware platform & based on Multi-Core Architecture with Optimization for excellent throughput for all your key processes		
	7.1.2)	The Proposed solution should have option for visibility into encrypted traffic flows, support for TLS 1.3 without downgrading the performance.		
	7.1.3)	The device should be having security functions like Firewall, VPN (IPsec Site to Site &SSL Client VPN), Gateway level antivirus, Category based web and application filtering, Intrusion prevention system, Traffic shaping, DoS/DDoS, WAF, Anti-Spam.		
	7.1.4)	Solution should offer with Central management solution with option to manage multiple firewalls from day one.		
	7.1.5)	Solution should support Multiple WAN link balancing multiple Internet connections, auto-link health check, automatic failover, automatic and weighted balancing, and granular multipath rules, should support more than two ISP		
	7.2)	**Hardware & Performance Requirement**		
	7.2.1)	The appliance should support 8 x GbE copper ports, 2 X SFP fiber ports from day one and should support 4 x 10GE SFP+ fiber ports for future extension.		
	7.2.2)	Appliance should have external redundant PSU option		
	7.2.3)	Should support SSD storage of min 1 x 120 Gb SATA-III		
	7.2.4)	Firewall must support at least 6.5 million concurrent connections		
	7.2.5)	Firewall must support at least 1,48,000 new sessions per second processing.		
	7.2.6)	Firewall should support up to 20 Gbps of Firewall IMIX throughput.		
	7.2.7)	Firewall should support integrated IPS throughputs of minimum 7 Gbps.		
	7.2.8)	Firewall should have a minimum Firewall throughput of 35 Gbps.		
	7.2.9)	Firewall should have a minimum Threat Protection throughput 1.4 Gbps.		
	7.2.10)	Firewall should have a minimum NGFW throughput of 6.3 Gbps.		
	7.3)	**General Features**		
	7.3.1)	Firewall must provide filtering capability that includes parameters like source addresses, destination addresses, source and destination port numbers, protocol type		
	7.3.2)	Firewall should be able to filter traffic even if the packets are fragmented.		
	7.3.3)	All known internet-based applications should be supported for filtering; like Telnet, FTP, SMTP, HTTP, DNS, ICMP, DHCP, ARP, etc.		
	7.3.4)	Firewall should support SSL inspection over HTTPS		
	7.3.5)	Firewall should support CLI and GUI based access to the firewall modules.		
	7.3.6)	Firewall should have application-based and user-based logs.		

	7.3.7)	Should support Local authentication and integration with third party authentication solutions like, Active Directory, LDAP Server, RADIUS, TACACS+, eDirectory and Kerberos		
	7.4)	**Security**		
	7.4.1)	Protects HTTP, HTTPS, FTP, POP3, POP3S, IMAP, IMAPS, SMTPS and SMTP.		
	7.4.2)	Pattern-based spyware blocking at the gateway.		
	7.4.3)	Centralized, daily updates, automatic and manual updates or offline update.		
	7.4.4)	Advance Threat Protection should have Inst ant identification and immediate		
	7.4.5)	response to today's most sophisticated attacks. Multi -layered protection identifies threats instantly		
	7.4.6)	Should support Sandboxing Inspects executables and documents containing executable content like - Windows executables (including .exe, .com, and .dll) - Word documents (including .doc, .docx, docm and .rtf) - PDF documents - Archives containing any of the file types listed above (ZIP, BZIP, GZIP, RAR, TAR, LHA/LZH, 7Z, Microsoft Cabinet)		
	7.4.7)	The proposed solution should have an option to enable features like Web Application Firewall and Email Protection if needed in future		
	7.5)	**Web Filtering**		
	7.5.1	Firewall should support minimum of at least 70+ predefined categories.		
	7.5.2	Should have flexibility to create network, user, Web and app-based traffic shaping (QoS) policy.		
	7.5.3	Blacklist and White listing based on IPs and URLs.		
	7.5.4	Exceptions based on network objects defined.		
	7.5.5	Notification of custom messages or URL redirection.		
	7.6)	**Intrusion Prevention System**		
	7.6.1)	IPS should protect for 5000+ Signatures database.		
	7.6.2)	Firewall should block attacks such as DoS- SYN, IP/ICMP/TCP/UDP related attacks.		
	7.6.3)	Solution should have IPS deep packet inspection engine with an option to select		
	7.6.4)	IPS patterns which can ne applied firewall rule for better protection and should have option to create custom signature		
	7.6.5)	Firewall should block attacks such as DNS cache poisoning, FTP bounce, improper commands.		
	7.7)	**Application Control**		
	7.7.1)	Firewall should have feature to identify, allow, block or limit usage of applications beyond ports and protocols.		
	7.7.2)	Firewall should provide protection against Block potentially unwanted Applications		
	7.7.3)	Application signature database of 25000+ Applications for Application Control		
	7.8)	**API Support**		
	7.8.1)	The solution Should support API for 3rd party integration		
	7.8.2)	The API has option to add, update, or delete configurations.		
	7.8.3)	The API should have option to add or update policies for IPS, Web filter, Application filter		

		7.8.4)	The solution API should have option to Manage physical interfaces and view Port wise Network and Zone details		
		7.8.5)	The Solution API should have option to update Gateway details. routes traffic between networks.		
		7.8.6)	The Solution API should have option to add or delete route		
		7.9)	**Logging & Reporting**		
		7.9.1)	Firewall logs must contain information about the firewall policy rule that triggered the log		
		7.9.2)	Firewall must provide at a minimum basic statistic about the health of the firewall and the amount of traffic traversing the firewall.		
		7.9.3)	Firewall should have support to log (in detail) all connections which are blocked or pass through the firewall.		
		7.9.4)	Firewall should have support to generate performance statistics on real-time basis.		
		7.9.5)	Firewall should have the capability to produce report s which measure usage.		
		7.9.6)	Should Support 1000+ drilled down reports on the appliance		
		7.9.7)	The solution should support User Threat Quotient to identify risky users based on recent browsing behaviour and ATP triggers		
		7.10)	**OEM Criteria**		
		7.10.1)	Proposed solution should have presence in Gartner's Magic Quadrant for Network Firewalls in latest reports		
		7.10.2)	Should have ISO 9001:2015 or above certificate		
		7.10.3)	Firewall operating system family should be EAL4+ certified from Common Criteria or under Indian Common Criteria Certification Scheme		
		7.10.4)	Should have IPv6 Ready Logo/certified (Please submit proof in BID)		
		7.11)	**3 Year Lic. Xstream Protection for XGS 2300**	**01**	
		7.11.1	Three Year Subscription license for Firewall, Advanced Threat Protection (ATP), Intrusion Prevention System (IPS), Zero-Day Protection, Anti-malware, Web and App visibility control, and protection, 24x7 support, security and software updates. License period will be counted after activation.		
8]		**Passive Components**			
		8.1) Technical Specifications:	Single Mode OFC LC-SC Patch cords 3 Mtr	**220**	
		8.2)	Firewall, Layer3 & Layer2 PoE Switches and Access Points installation and Configurations charges	**01**	

Attach separate sheet, if required .

- *Quote rates in words also.*
- *Fill in the details of over/under specifications offered in Appendix-A form.*
- *Model is to be specified. Quote all possible models and the articles with all details.*
- *Given Quantity may be vary as per the requirement.*

I hereby agree to abide by the Terms & Conditions of this tender enclosed herewith & duly signed by me.

Name of the firm:
Place: *Signature of the Tenderer*
Date: *With Rubber Stamp.*

APPENDIX –A

Over specification / under specification statement

Sr.No.	Item No.	Specification Required	Specification Offered

Name of the Supplier _____ Signature of

Supplier

TERMS & CONDITIONS

1. The e-tender form & all the details are available on the website: www.mahatenders.gov.in. The tender form fees and respective EMD fees should be paid online at www.mahatenders.gov.in.

2. The e-tender should be submitted online over www.mahatenders.gov.in wherein the tenderer has to upload the Technical Documents & Commercial Bid in the respective two cover systems. The detailed instruction regarding is given in the website mentioned above.

3. **Following documents which are compulsory documents for consideration of the Commercial offer must be uploaded in technical cover, otherwise the Tender may be disqualified.**

(All Documents must be properly indexed and to be uploaded serially).

- *Copy of acknowledgement of Income Tax Return for **last three financial years**.*
- *Copy of acknowledgement of GST Return as on **31 March 2023**.*
- *Copy of updated registration of business (Incorporation Certificate) or Shop Act License.*
- *GST Registration Certificate.*
- *Copy of authorised certificate of Manufacturer / Authorized Dealer / Distributor / Service Provider for said e-Tender.*
- *Tenderer must possess at least three years of service experience in handling network infrastructure support to academic institutions / research organization / industry (Attach testimonials and orders from academic institutions / research organization / industry).*

4. List of Technical Staff should also be enclosed with escalation matrix, Proof of after Sales-Technical support, must be submitted.

5. List of five latest major clients with document reference should also be enclosed.

6. The commercial /Financial Offer must be submitted in the form of BoQ- a excel sheet given over www.mahatenders.gov.in.The tenderer shall fill up the column of rate per unit (units as given in BoQ) offered by him. It is necessary that the tenders must submit the financial bid for A – Project Scope - Components and B – Project Scope - Services section of BoQ for the fair competitiveness of the financial offers.

7. The Commercial Bid shall be opened only if valid documents are submitted as specified in sr. no. 3.

8. The University reserves the right to decide whether to open or not open the Commercial Cover of any Tenderer and objection of any Tenderer shall not be entertained on any ground whatsoever regarding this.

9. The rates quoted should be inclusive of all Taxes, other charges and delivery, installation, support. **Rates should be F.O.R. University**. The delivery charges for the articles replaced under warranty period should be paid by the tenderer.

10. The rates quoted should be valid minimum for 180 days or as per the ARC agreement after due date of e-tender and the rates should be binding on the tenderer for the purchase/work order issued to the tenderer within this period and it is applicable irrespective of the time of supply or service provided. Cost escalation will not be applicable for any reason.

11. The tenderer should have a Support service operating in or around Aurangabad and the complete details including telephone number for the same must be provided.

12. University reserves the right to reject any or all tender(s) without assigning any reason. The decision of the University in this regard shall be final. No enquiries in this regard shall be entertained.

13. Any fault reported to the tenderer should be attended within one hour and the functionality should be brought to working condition within 1-2 working days of the university and monitored as per Sr. No. 11. Delay beyond this period will attract penalty at the rate of 1% of the work order cost per day of delay subject to maximum 5% of the purchase order cost and it would be deducted from subsequent payments. The university reserves the right, without liability, to cancel the order in such cases and it will be free to place order on any other party.

14. The tenderer should supply said items / materials in the original.

15. For Switches and Access points- OEM Warranty Certificate duly signed & stamped by OEM.

16. Training & Installation for Switching and Wireless devices should be from OEM Engineer.

17. Registered Vendor under Micro and small scale industry (MSME)/UDYAM are exempted from EMD.

18. The successful tenderer is required to Deposit 5% of purchase order cost towards the Security Deposit within a period of 3 days after receipt of purchase order. The Security Deposit will not carry any interest.

19. If the Security Deposit is not deposited within a stipulated period, it will be presumed that successful tenderer is not interested in supply & therefore his EMD will be forfeited.

20. The original receipt of Earnest Money Deposit (EMD) & Security Deposit should be preserved by the tenderer and should be produced while claiming the refund of deposit along with time to time quarterly preventive maintenance Reports.

21. If any other necessary information/documents is essential should also be enclosed.

22. **Maharashtra National Law University, Aurangabad** is not bound to accept the lowest tender, and reserves the right to accept or reject the Tender(s) without assigning any reasons whatsoever.

23. Delivery and installation of the items are to be completed within 15 days from the date of confirmed purchase order. If delivery does not happen with 15 days, university reserve right to give work order to the next tenderer and additional cost etc. is to be borne by defaulter.

24. Usual payment terms: 50% against the delivery of items/goods and successful installation. The inspection will be done by the duly appointed committee by MNLU-A and 30% payment will be made after testing, training, and satisfactory certification from the concerned committee and the remaining 20% payment will be made after 6 months of successful running.

25. All the legal disputes are subject to the jurisdiction of Aurangabad court only.

I hereby agree to abide by the above stated terms and conditions.

Date:

Signature of Supplier
With Rubber Stamp

FROM……………………………….

…………………………………………

To,
The Registrar,
Maharashtra National Law University, Aurangabad

Sub: **Tender for Network & Hardware equipment**
Ref: **Your tender notice dated……………………**

Sir,

I/ We are submitting herewith our tender for the Active Switching of the articles as specified in the tender from and as laid down in tender documents.

I/ We have read and understood all the terms and conditions governing the tender I/ We agree to abide by these terms and conditions.

We are enclosing herewith your receipt No……………………. dt…………………. as a proof of having purchased the nontransferable tender document.

According I/ We are enclosing herewith our Earnest Money Deposit online No……………………dated……………………for ₹ . _____ payable to Maharashtra National Law University, Aurangabad

I/ We undertake to replace the defective material, if any, at our cost.

I/ We have duly signed all pages of the tender document together with the copy of the "Terms and Conditions" contained in the tender document booklet. I/ We have signed the copy of these terms and conditions as a token of acceptance of these conditions.

We are enclosing as Annexure the following documents (up-to-date) in original/ attested copies in fulfillment of the conditions laid down in the tender document.

A) Essential Documents with indexing

- *Copy of acknowledgement of Income Tax Return for financial year (2019-20, 2020-21,2021-22).*

- *Copy of acknowledgement of GST Return as on 31 March 2023.*

- *Copy of updated registration of business (Incorporation Certificate) or Shop Act License.*

- *GST Registration Certificate.*

- *Copy of authorised certificate of Manufacturer / Authorized Dealer / Distributor / Service Provider for said e-Tender.*

- *Tenderer must possess at least three years of service experience in handling network infrastructure support to academic institutions / research organization / industry (Attach testimonials and orders from academic institutions / research organization / industry).*

Yours faithfully

Stamp and Signatures of the Authorized Signatory

Name……………………………………….

Complete address……………………………..

…………………………………………………

Telephone no.s (HQs)……………..

CERTIFICATE OF ACCEPTANCE OF TERMS AND CONDITIONS

1. I/ We have read and fully understood the Terms and Condition as laid down in respect of this tender. I/ We agree to abide by the same.

2. I/ We undertake to replace the defective material, if any, at our cost.

3. I/ We have duly signed all pages of the tender document.

4. I am/ We are also enclosing as Annexure the documents (Up-to-date) as listed in the tender in fulfillment of the conditions laid down in the tender document to prove that I/ we are qualified for this tender.

Stamp and Signatures of the Authorized Signatory

Name……………………………………………………….

Complete address…………………………………………………..

……………………………………………………………

Telephone No.s (HQs)…………………………………………

Tender for Network & Hardware Equipment

The tender form may be downloaded from website **www.mahatenders.gov.in**
(₹.17,000/- Tender Form Fees-Non Refundable)
© Maharashtra National Law University, Aurangabad-431005