IN THE HIGH COURT OF DELHI AT NEW DELHI

F.No.624/DHC/IT/DA-2/No. 21252 Dated: 14,11,2024

From:

The Registrar General Delhi High Court, New Delhi.

To,

On the website of this Court)
 Indian Trade Journal)

Sub: <u>Notice inviting Tender for purchase of (1) One No. of Router with minimum four</u> <u>interfaces, (2) One No. of L2 Switch, and (3) One No. of L3 Switch for Network</u> <u>Attached Storage (NAS) at Data Recovery (DR) site i.e. Madurai Bench of Madras</u> <u>High Court, Tamil Nadu.</u>

This Court intends to purchase (1) One No. of Router with minimum four interfaces, (2) One No. of L2 Switch, and (3) One No. of L3 Switch for NAS at DR site i.e. Madurai Bench of Madras High Court, Tamil Nadu, with 5 years on-site comprehensive warranty. The Compliance Sheet containing minimum technical specifications of the required Router and L-2 & L-3 Switches are enclosed herewith at Annexure-'A', Annexure-'B' & Annexure-'C' respectively.

*Note: The participating authorized firm / vendor must submit duly filled in technical specification compliance sheet as per Annexure-'A', Annexure-'B' & Annexure-'C' along with the Financial/Price bid to be submitted as per Annexure-'D' (separately for each item). Non compliance will lead to rejection of the quotation.

The terms & conditions of this tender are as under:

- Interested firm(s) / vendor(s) authorized by OEM intending to participate in the instant tender are requested to submit the necessary Technical/Financial bids along with the copy of current authorization letter of the OEM (whose product is being offered) and Earnest Money Deposit (EMD) of 3% of total proposed cost (incl. GST) of the respective Hardware (Router/L-2 Switch/L-3 Switch) by way of Demand Draft/Bankers Cheque/Pay Order drawn in the favour of "The Registrar General, Delhi High Court" payable at New Delhi. (Firm/Vendor is required to submit EMDs either collectively or individually for each hardware.)
- 2. Quotations received without EMD shall be summarily rejected and no request for waiver of EMD will be entertained.
- 3. Selected Firms(s)/Vendor(s) will also be required to submit valid authorization letter or copy of valid authorization letter issued by OEM duly attested under the seal of the firm while submitting Invoice/Bill mentioning warranty/support period. The offered hardware must have back to back support from OEM during the 5 years on-site comprehensive warranty period.
- 4. One big Sealed/closed envelope containing two sealed/closed envelopes of Technical & Financial Bid & EMD must reach to the A.O.(J) (IT Branch), Lawyers' Chamber Block-III, Room No. 6, Ground Floor, Delhi High Court, New Delhi-110003 on or before <u>07-12-2024</u> till 5:30 P.M. clearly mentioning the rates inclusive of GST/Tax rate, technical specifications, warranty/support period, validity of rates and the delivery schedule of the product being offered.
- 5. The Big Envelope should be addressed in the name of "The Registrar General, Delhi High Court, New Delhi" and the <u>Subject</u> & <u>due date</u> for which the quotation is submitted must be clearly superscribed in capital letters on the envelope.
- 6. The validity of rates must not be less than 180 days from the last date of submission of quotations. Quotations with less period of validity of rates shall be summarily rejected.
- 7. No quotation shall be entertained <u>after due date</u>. Envelope(s) received <u>without subject</u> being mentioned on them as referred to above shall be summarily rejected.
- 8. Vendor(s) offering quotations for multiple make/model of Hardware (Router/L-2 Switch/L-3 Switch) will have to submit separate authorization letter(s) from the respective manufacturer(s).
- 9. In case the Purchase Order awarded to the eligible L-1 firm is cancelled due to non supply of goods within the stipulated period, the Purchase Order will be awarded to the next L-2 vendor/

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firm. The firm shall be liable to be blacklisted to participate in future tenders of this court and the amount of EMD shall be forfeited, if failed to give any cogent reason.

- 10. The duly signed and stamped quotation must be tendered strictly in the format mentioned in <u>Annexure-'A'</u>, <u>Annexure-'B'</u>, <u>Annexure-'C' & Annexure-'D'</u> of this tender. Quotation(s) offered in any other format than prescribed shall be liable to be rejected.
- 11. The Demand Draft/Bankers Cheque/Pay Order towards EMD of all the tenderers, except the lowest three, shall be returned to vendors on their written request after finalization of Tender Process & EMD of successful tenderer will be returned only after supply and successful completion of the purchase order placed upon the firm fulfilling all codal formalities against receipt.
- 12. The Demand Draft/Bankers Cheque/Pay Order of L-2 & L-3 will be returned upon written request after issuance of the Purchase Order to the successful tenderer. If the offer of quotation is withdrawn by the tenderer before/after opening of tender the amount of EMD shall be forfeited and the firm will be blacklisted from participation in any future tenders of this Court for a period of twelve months from the date of blacklisting.
- 13. The successful tenderer will also be required to supply, install and integrate the Hardware(s) with the existing setup at the DR Site i.e. Madurai Bench of Madras High Court, Tamil Nadu and also integrate with Data Centre site i.e. Delhi High Court.
- 14. The selected vendor is also required to submit the details of SPOC(single point of contact) for after sale support and will also ensure that the complaints notified to designated SPOC person are attended and resolved expeditiously/immediately.
- 15. The successful vendor shall abide by the condition that the complaint lodged shall be resolved on next working day maximum (within one day). If the vendor fails to respond within the stipulated period to attend complaint(s), then the vendor will be bound to face the penal action.
- 16. If multiple quotations are submitted by a firm/vendor for the same hardware, all such quotations submitted by it shall be liable to be rejected at the first instance.
- 17. After opening of the sealed quotation if any cutting/overwriting/correction is found in the offered rate which renders the whole Tender process doubtful or ambiguous, the said quotation shall be summarily rejected.
- 18. The firm/vendor shall also have to furnish a duly filled in/signed/stamped undertaking (strictly as per Annexure-'E) that neither the firm nor its Partner/Director/Proprietor has been blacklisted/banned and its Business dealings with the Central/State Government/ Public Sector Undertakings/ Autonomous Bodies have been banned/terminated on account of poor performance/conduct and also that all the terms and conditions of the instant Tender Notice are acceptable to them. The quotation received without undertaking shall be summarily rejected.
- 19. In case the firm/vendor wants any clarification regarding this Tender, Mr. Zameem Ahmad Khan, Joint Director (IT) at Tel. No. 011-43010101 (Ext.4852) may be contacted.
- 20. No employee of this Court or his/her dependent family members be involved in the instant tender process in contravention of the requirement/provisions contained in Central Civil Services (Conduct) Rules, 1964.

This Court reserves the right to modify/amend the quotation letter/terms & conditions at a later stage.

Yours truly,

(Rajeev Kumar Chauhan) Joint Registrar (IT) *for* Registrar General

CC to: The Director (IT), Delhi High Court, for uploading on the official website of the Delhi High Court.

<u>TECHNICAL BID</u> <u>Compliance Sheet - Router</u>

(Minimum Technical Specification-Router)

S. No	Detailed Technical Specifications Router (DHC)	Compliance (Yes/No)	Give Details/ Remark, if any
1	General requirements		
	Router should have a modular architecture		
	From day one the Device should support termination of MPLS as well as Internet links (in future if needed) and must be able to use both the links for traffic. Any failure of a link must result in steering traffic on another link without any manual intervention.		
	Device should have Internal hot swappable power supply with 1+1 redundancy		
	Minimal performance degradation when running advanced services such as stateful firewall, NAT and IPSec.		
	Hardware and interface requirements		
2	Router should have atleast 4 x 1G RJ-45 and 4 x 1G/10G SFP+ ports* supporting both LAN and WAN protocols. All ports must be populated from day 1 including 10G interfaces. (*Two 10Gig Port required for two SP interface and two 10Gig ports are		
	required for two UTM firewall Interface.)		
	Device should have 1x RJ45 console port for management		
	Router should have sufficient RAM/DRAM* or more to support routing tables & other memory intensive processes from Day 1.		
	(*Platform should have 16 GB default DRAM from day one and it can be upgraded to 32 GB.)		
	Router should have 2 Free slots (after populating the asked ports) for 4G/ LTE or WIFI module.		
	All the LAN/WAN ports should be in compliance with 802.3 standards		-
	Router should have internal redundant Power Supply.		and a
	Performance requirements		
3	The Router should have minimum routing performance of 14000Kpps or 20Gbps upgradable to 39Gbps		
	The Router should support minimum IPsec performance of 19Gbps The router should support minimum 3 million IPv4 & 2Million		
	IPv6 routes.		
	Quality of Service (QoS) requirements		
4	Routers should support Class-based queuing with prioritization		
	It should be possible to configure maximum bandwidth and guaranteed bandwidth		
	Routers should support 802.1p, DSCP and EXP		
	Routers should support Marking, policing, and shaping		
	Routers should support congestion management features like WRED		
	Routing protocol support		
5	The Router should support IPv4 and IPv6 routing, Static routing		

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	The Router should support VRRP, HSRP, MPLS-L3VPN, DHCP, Link Budgeting	
	The Router should support Policy Based Routing	
	Generic Routing Encapsulation; 802.1q VLAN; PPP; PPPoE	
	The Router should have RIP, OSPF, IS-ISand BGP	
	Multicast Features	
6	IGMP v1/v2/v3 and PIM-SM, Source Specific Multicast (SSM)	
	MPLS Features	
7	Layer 2 and Layer 3 VPN, LDP, RSVP and mVPN/ NGMVPN	
	Preloaded MPLS features from day 1	
	Security features	
8	Routers should support AAA using RADIUS or TACACS	
U	Routers should support 1000 IPSec Tunnels	
	Routers should support Packet Filters/ACL 8	
	Routers should support Stateful Firewalling	
	Routers should support Tunnels (GRE and IPSec)	
	Routers should support DES (56-bit), 3DES (168-bit), AES (256-bit) encryption	
	Routers should support MD5 and SHA-384 or better authentication	
	Routers should support Network address translation (NAT).	
	Routers should have role based access mechanisms.	
	SD-WAN	
9	Proposed router should support SD-WAN functionality as well without changing the hardware in the setup.	
	Device should be able to support PIM SM across SD-WAN, PIM SM with neighbour support on LAN and WAN interfaces, PIM SSM, PIM SM Bootstrap RP, PIM Rendezvous- Point, IGMP v2/v3	
	Management and Troubleshooting	
10	Router should have Console, Telnet, SSH and Web for management	
	Routers should support SNMPv2 and SNMPv3	
	Extensive debugs on all protocols	
	IPSLA/ Real-Time Performance Monitor	
	Certifications	
11	Safety certifications UL 60950-1	
	10 EMC certifications FCC Class A	
	The Router or the series should be IPv6 Certified (IPv6 Logo Ready or USGv6)	
	Device shall conform to EN 55032 or EN 55024 or VCCI-CISPR 32 Standards for EMC (Electro Magnetic Compatibility)	
	requirements. Device shall confirm to CB IEC 60950-1 or CB IEC 62368-1 Standards for Safety requirements of Information Technology	
	Equipment	
	The Router should be EAL 3/NDPP/ NDcPP certified under Common Criteria or should be CE/MEF 2.0 compliant	
	Warranty	
12	5 Years	
12		

Annexure-'B'

<u>TECHNICAL BID</u> Compliance Sheet – L2 Switch

(Minimum Technical Specification-L2 Switch)

<u> </u>	(Minimum Technical Specification-L2 Switch)							
S. No.		Description of Product- L2 Switch	Compliance (Yes/No)	Give Details/ Remark, if any				
1	General Features	Proposed switch should be enterprise grade switch with x86 based CPU architecture.						
		The switch should have minimum of 48 nos. 10/100/1000 Ethernet Ports and in addition 8 nos. of 10Gig SFP+ uplink ports.						
2	Performance and Scalability	The switch should support non-blocking switching bandwidth up to 256 Gbps (without considering stacking bandwidth).						
		The switch should support wire-speed 64-Byte Packet Forwarding Rate up to 190 Mpps.						
		The switch should have 16GB of Flash memory to store image and logs The switch should have 8 GB of DRAM.						
		The switch should support 1000 SVI.						
		The switch should support 4094 VLAN IDs.						
		The switch should support Jumbo frames of 9198 bytes.						
	Charleine	The switch should support 32000 Unicast MAC addresses.						
3	Stacking	Switch should have dedicated stacking ports other than user and uplink ports.						
		Switch should have atleast 480 Gbps stacking performance.						
		Switch should be provided with necessary stacking module and cables from day-1.						
		Switch should support 8 members in stack.						
		The proposed switch family should support multi gigabit ethernet switches to support higher bandwidth and it should be possible to stack multigigabit switches with proposed switches.						
		The Switch stack should be based on Distributed forwarding Architecture, where in each stack member forwards its own information on network.						
		The Switch stack architecture should have centralized control and Management plane with Active Switch and all the information should be Synchronized with Standby Switch.						
		The Switch should support Stateful Switchover (SSO) when switching over from Active to Standby switch in a Stack.						
		The Switch stack architecture should allow the end user to stack 24 Port Switch with 48 Port of the same model. The Switch should support stack power.						
4	Standards	The switch should support Stack power. The switch should support IEEE 802.1D Spanning Tree Protocol.						
		The switch should support IEEE 802.1p.						
		The switch should support IEEE 802.1Q Trunking						
		The switch should support IEEE 802.1s Multiple						

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		Spanning Tree (MSTP)		-
1		The switch should support IEEE 802.1w Rapid		
		Spanning Tree (RSTP)		
		The switch should support IEEE 802.1x		
		The switch should support IEEE 802.1ab (LLDP)		
		The switch should support IEEE 802.3ad Link Aggregation Control Protocol (LACP) across		
		stack members and should able to do load		
		balance traffic across links		
	ayer-2	The switch should support Automatic		
	'eatures from Day	Negotiation of Trunking Protocol, to help minimize the configuration & errors.		
-	nom Day one)	The switch should support IEEE 802.1Q VLAN		
	,	encapsulation		
		The switch should support Spanning-tree		
		PortFast and PortFast guard for fast convergence		
l		The switch should support Spanning-tree root		
, i		guard to prevent other edge switches becoming the root bridge.		
		The switch should support Voice VLAN to		
		simplify IP telephony installations by keeping		
		voice traffic on a Separate VLAN.		
		The switch should support Unidirectional Link Detection Protocol (UDLD) and Aggressive UDLD		
		to allow for unidirectional links caused by		
		incorrect fiber-optic 'Wiring or port faults to be		
		detected and disabled on fiber-optic interfaces.		
		The switch should support IGMP v1, v2 Snooping		
		Switch should support IPv4 and IPv6The Switch	(3) [1] Independent Constant	
		should be able to discover (on both IPv4 & IPv6 Network) the neighboring device giving the		
		details about the platform, IP Address, Link		
		connected through etc, thus helping in		
6 L	ayer-3	troubleshooting connectivity problems.		
	eatures	Switch should support min. 32000 IPv4 routes, and it should support Layer 2, Routed Access		
	from day	(RIP, OSPF -1000 routes L PBR, PIM Stub-		
0	one)	Multicast (1000 routes)L PVLAN, VRRP, PBR,		
		CDP, QoS, FHS, B02.1X, MACsec-128, CoPP, SXP, IP SLA Responder, SSO from day 1		
		The Switch should support routing protocols		
		such OSPF, BGPv4, IS-ISv4, EIGRP, LISP, VXLAN,		
		VRF, MPLS, L3VPN for future upgrade	· · · · ·	
		The Switch should support IPv6 Routing capable		
		protocols such as OSPFv3 in hardware. The Switch should support basic IP Unicast	· ·	
		routing protocols (Static, RIPv1 & RIPv2).		
		The Switch should support IPv6 & IPv4 Policy		
		Based Routing (PBR)		
		The Switch should support Inter-VLAN routing.		
		The Switch should support HSRP for IPv4 & IPv6.		
		The Switch should support VRRPv3.		
		The Switch should support uRPF for IPv4 and		
7 N	etwork	IPv6.		
	ecurity	The switch should support IEEE 802.1x providing user authentication, authorization and		
	eatures	CoA.		

	(From day	The switch should support SSHv2 and SNMPv3		
	one)	to provide network security by encrypting administrator traffic during Telnet and SNMP		
		sessions.		
		The switch should support TACACS+ and RADIUS authentication enable centralized		
	1	control of the switch and restrict unauthorized		
		users from altering the configuration.	57 <u>8 9</u>	
		The switch should support MAC address notification to allow administrators to be		
		notified of users added to or removed from the		
		network.		
		The switch should support MACSec-2S6, Encrypted traffic analytics.		
8	Quality of	The switch should support 8 egress queues per		
	Service (QoS) &	port to enable differentiated management.	2	
	Control	The switch should support Standard 802.1p CoS field classification.		
	(From day one)	The switch should support IPSLA feature set to		
	onej	verify services guarantee based on business		
		critical IP Applications. The switch should support QoS based on		
		application.		
9	Operation and	The switch should support configuration of the Software image and switch configuration		
	Management	without user intervention.		
		The switch should have built in RFID tag for		
		asset tracking and inventory management.		
		The switch should support system health checks within the switch.		
		The switch should support Command Line		
		Interface (CLI) for configuration troubleshooting		
		purposes. The switch should support Layer 2 trace route to	an ann ann ann a	an a nan a contratante da
		ease troubleshooting by identifying the physical		
		path that a packet takes from source to destination.		
		The switch should support Telnet and ssh		
		interface support for comprehensive in-band		
		management. The switch should support SNMPv1, SNMPv2c,	· · · · ·	
		and SNMPv3 and netflow v9.		
10	Dimension	The Switch should be 1RU.		
		The switch should able to support built-in redundant power supplies from day 1.		
		Switch should be provided with AC power supply		2
		and Indian power cords.		
11	Miscellaneous	Console cable and power cable (As per Indian standards) as per customer requirement to be		
		provided. All Cables shall be factory- terminated.		
		All Functionalities of Switch shall be IPv6,		
		compliant and it should work on IPv6 Platform without any additional hardware/ software.		
		All the components should be from same OEM.		
		Two 10G SR SFP required for uplink.		

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<u>TECHNICAL BID</u> <u>Compliance Sheet –L3 Switch</u> (Minimum Technical Specification-L3 Switch)

(Minimum Technical Specification-L3 Switch)									
S.No.	Descripti	on of Product (Specification) L3 Switch	Compliance (Yes/No)	Give Details/ Remark, if any					
1	Solution Requirement	The Switch should support non-blocking Layer 2 switching and Layer 3 Switching							
		Switch should support the complete STACK of IPv4 and IPv6 services.							
		The proposed switches should be part of Gartner Leader Quadrant for DC Networking							
		for last 2 years The Switch used have the capability to function in line rate for all ports							
2	Hardware	function in line rate for all ports Switch Should have following Interfaces:							
4		Minimum 48 ports support 1/10/25Gbps		0 0 0 0000					
and Interface Requirement		SFP+ ports for host connectivity and 6*100G ports for Fabric/Spine connectivity.							
		Switch should have console port for local management & management interface for Out of band management							
		1 RU fixed form factor		680 C.C.					
		Switch should be rack mountable and support side rails if required		1					
		Switch should be provided with power redundancy							
3	Performance Requirement	Modular as with dedicated process for each routing protocol		e' 63					
		Switch should re-converge all dynamic routing protocol at the time of routing update							
		changes i.e. Graceful restart for fast re-							
		convergence of routing protocols (OSPF IS-IS BGP)							
	1	Switch should support minimum 1000 VRF instances with route leaking							
		The switch should support 650K IPV4 LPM routes							
		The Switch should support intelligent buffer management with a minimum buffer of 40MB.							
		The switch should have MAC Address table size of 512K							
12		The switch should support 128K multicast	1						
		routes Switch should support 4000 VLANs Switch should support 64 nos of ECMP paths							
				· · · · · · · · · · · · · · · · · · ·					
		Switch should support minimum 3.6 Tbps of switching capacity (or as per specifications of							
		the switch if quantity of switches are more,							
	ł.	but should be non blocking capacity)							
4	Network	Switch should support Network Virtualization							
	Virtualization	using Virtual overlay Network using VXLAN							
	Features	Switch should support VXLAN and EVPN							
		symmetric IRB for supporting Spine -Leaf architecture to optimize the east -west traffic flow inside							
5	Layer 2 Features	Spanning Tree Protocol (IEEE 802.1D, 802.1W, 802.1S)							
	i catul 65	Switch should support VLAN Trunking (802.1q)							

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		Switch should support minimum 90k no. of MAC addresses	
	-	Switch should support VLAN tagging (IEEE 802.1q)	
		Switch should support IEEE Link Aggregation	
		and Ethernet Bonding functionality (IEEE	
		802.3ad) to group multiple ports for redundancy	
		Switch should support Link Layer Discovery	
		Protocol as per IEEE 802.1AB for finding	
		media level failures Switch should support layer 2 extensions over	
		VXLAN across all Data Center to enable VM	
		mobility & availability	
		The Switch should support DC Bridging i.e. IEEE 802.1Qbb Priority Flow Control (PFCl,	
		Data Center Bridging Exchange (DCBX), IEEE	
		802.1Qaz Enhanced Transmission Selection	
		IETS). Explicit Congestion Notification Maximum number of port channels should be	<u> </u>
		300	
		Maximum No. of ports in the port channel	
		should be 32 The switch should support BGP EVPN Route	
		Type 2, Type 4 and Route Type 5 for the	
		overlay control plane	
6	Layer3 Features	Switch should support static and dynamic routing	
		Switch should support segment routing and	
		VRF route leaking	
		Switch should support Segment Routing and Layered VPN over Segment	
		Switch should support multi instance routing	
		using VRF/ VRF Edge/Virtual routing and	
		should support VRF Route leaking Switch should provide multicast traffic	
		reachable using:	
		a. PIM-SM	
		b. PIM-SSM Support Multicast Source Discovery Protocol	
		(MSDP)	
		Switch should support IGMP v1, v2 and v3	
7	Quality of Service	Switch should support IEEE802.	
	(from day	IP classification and marking of	
	one)	a. CoS (Class of Service) b. DSCP(Differentiated Services Code	
		Point)	
c.		Switch should support for different type of	
		QoS features for real time traffic differential treatment using:	
		a. Weighted Random Early Detection	
		b. Strict Priority Queuing	
		Switch should support Rate Limiting -Policing and Shaping	
		Switch should support to trust the QoS	
		marking/priority settings of the end points as	
8	Security	per the defined policy Switch should support control plane	
		Protection from unnecessary or DoS traffic by	
		control plane protection policy	

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1		Switch should support for external database	
		for AAA using:	
		a. TACACS+	
		b. RADIUS	
		Switch should support to restrict end hosts in	
		the network. Secures the access to an access	
		or trunk port based on MAC address. It limits	
		the number of learned MAC addresses to deny	
		MAC address flooding	
		Switch platform should support MAC Sec	
		(802.1AE) encryption	
		VXLAN and other tunnel encapsulation/de-	
		capsulation should be performed in single	
		pass in Hardware	
		Switch should support Role Based access	
		control (RBAC) for restricting host level	
		network access as per policy defined	
		Switch should support DHCP Snooping	
		Switch should support Dynamic ARP	 · · · · · · · · · · · · · · · · · · ·
		inspection to ensure host integrity by	
		preventing malicious users from exploiting	
		the insecure nature	
		Switch should support IPSource Guard to	
		prevents a malicious hosts from spoofing or taking over another host's IP address by	
		creating a binding table between the client's	
		IP and MAC address port and VLAN	
		Switch should support unicast and/or	
		multicast blocking on a switch port to	
		suppress the flooding of frames destined for	
		an unknown unicast or multicast MAC	
		address out of that port	
		Support for broadcast, multicast and	
		unknown unicast storm control to prevent	
		degradation of switch performance from	
		storm due to network attacks and	
		vulnerabilities	
		The Switch should support LLDP.	
		Switch should support Spanning tree BPDU	
		protection	
9	Manageability	Switch should support for sending logs to	
,	Junagoubincy	multiple centralized syslog server for	
		monitoring and audit trail	
		Switch should provide remote login for	
	1	administration using:	
		a. Telnet	
		b. SSHv2	
		Switch should support for capturing packets	
		for identifying application performance using	
		local and remote port mirroring for packet	
		captures	
		Switch must have Switched Port Analyzer	
		(SPAN) with minimum 4 active session and	
		ERSPAN on physical Port channel VLAN	
		interfaces	
		Switch should support for management and	
		monitoring status using different type of	
		Industry standard NMS using:	
		a. SNMP v1, SNMP v2, and SNMP v3 with	
			-
		Encryption	

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		Switch should provide different privilege for	
		login into the system for monitoring and	
		management	
		Should have Open APIs to manage the switch	
		through remote-procedure calls (JavaScript	
		Object Notation [JSON or XML) over HTTPS	
		after secure authentication for management	
		and automation purpose.	
		The Switch Should support monitor events	
5		and take corrective action like a script when	
		the monitored events occurs.	
		Should support hardware telemetry from	
		ASIC-	
		 Flow path trace (ingress to egress switch) 	
	2 	 Per Flow Hop by Hop packet drop with 	
	6	reason of drop	
		 Per Flow latency (per switch and end to end) 	
10	Availability	Switch should have provisioning for	
		connecting to 1:1/N+1 power supply for	
		usage and redundancy	
		Switch should provide gateway level of	
		redundancy IPV4 and IPV6	
		Switch should support for BFD For Fast	
		Failure Detection	
11	Miscellaneous	Console cable and power cable (As per Indian	
		standards) as per customer requirement to be	
		provided. All Cables shall be factory	
		terminated	
		All Functionalities of Switch shall be IPv6	
		compliant and it should work on IPv6	
		Platform without any additional hardware/	
		software.	
		All the components should be from same OEM	
		Two 10G SR SFP required for uplink	

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Annexure - 'D'

Name of the firm:	_Email Address:
Address of the Firm:	·

_____ Contact No.: _____

Price Bid

Description of Product	Price offered (without taxes) in ₹.	Tax Rate (%)	Total Price offered for one unit (incl. of tax) In ₹.	Undertaking furnished (Yes/No)	5 years onsite compre- hensive warranty (Yes/No)	Validity of Rates (180 days Minimum)	Remarks, (if any)
Router							
Make:							
Model :							

Details of EMDs attached for Router:_____

Description of Product	Price offered (without taxes) in ₹.	Tax Rate (%)	Total Price offered for one unit (incl. of tax) In ₹.	Undertaking furnished (Yes/No)	5 years onsite compre- hensive warranty (Yes/No)	Validity of Rates (180 days Minimum)	Remarks, (if any)
<u>L-2 Switch</u> Make:							
	2						
Model :							

Details of EMDs attached for L-2 Switch

Description of Product	Price offered (without taxes) in ₹.	Tax Rate (%)	Total Price offered for one unit (incl. of tax) In ₹.	Undertaking furnished (Yes/No)	5 years onsite compre- hensive warranty (Yes/No)	Validity of Rates (180 days Minimum)	Remarks, (if any)
L-3 Switch Make:							
Model :							

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Details of EMDs attached for L-3 Switch_____

Annexure- 'E'

8

UNDERTAKING

I/We undertake that neither the firm (_______)
nor its Partner/Director/Proprietor (_______)

has/have been blacklisted / banned in its Business dealings with any Central / State Government / Public Sector Undertaking / Autonomous Bodies or has/have been banned/ terminated on account of poor performance / conduct.

I/we also undertake that all the terms and conditions of the instant Tender Notice are acceptable to me/us.

I/we also undertake that in case the supply is not found to be in conformity with the purchase order or any other distortion found in the supply, the whole supply will be taken back at the cost of the firm with replacement of goods within 3 days.

I/We further undertake that I/we have confirmed and correctly applied the HSN Code of the required item and its corresponding applicable GST rate as on date with sole responsibility.

> Signature of the authorized Signatory of the firm/company/organization Official Stamp/Seal

Date:-

Place:-