S.No.	Technical Specifications for L3 Switch	Compliance Yes/ No
1.1	**General Features :**	
1.1.1	Switch shall be 1U to 3U and rack mountable in standard 19" rack.	
1.1.2	Switch shall have 16 GB RAM and 16 GB Flash	
1.1.3	Switch should support optional SSD to host 3rd party container based application.	
1.1.4	Switch shall have hot swappable 1:1 redundant internal power supply and redundant fan.	
1.1.5	Switch shall have VSS or equivalent features allows links that are physically connected to two different switch to appear as a single port channel	
1.2	**Performance :**	
1.2.1	Switching system shall have minimum 1.2 Tbps of switching fabric and minimum 950 MPPS of forwarding rate.	
1.2.2	Switching system shall have minimum 145K MAC Addresses and 1K VLANs.	
1.2.3	Switch should support minimum 16K ACLs, 16K Uniicast IPv4 , 12K IPv6 unicast Routes..	
1.2.4	Switch shall support application visibility and traffic monitoring with sflow/jflow/netFlow Support.	
1.2.5	Packet buffer : 32 MB	
1.2.6	The device should be IPv6 from day one	
1.3	**Functionality :**	
1.3.1	Should support IEEE Standards of Ethernet: IEEE 802.1D, 802.1s, 802.1w, 802.1x, 802.3ad, , 802.3x, 802.1p, 802.1Q, 1588v2/NTP	
1.3.3	Must support BGP, VRF, VXLAN, NAT, OSFPv2/v3, Policy-Based Routing (PBR), PIM SM, and Virtual Router Redundancy Protocol (VRRP) from Day 1	
1.3.4	Shall have 802.1p class of service, marking, classification, policing and shaping. Should support strict priority queuing.	
1.3.5	Switch should support management features like SSHv2, SNMPv2c, SNMPv3, IGMP, Netconf/YANG/Rest-API.	
1.3.6	Switch should support IPv6 Binding Integrity Guard/IPv6 Dynamic lockdown, IPv6 Snooping, IPv6 RA Guard, IPv6 DHCP Guard, IPv6 Neighbor Discovery Inspection and IPv6 Source Guard/IPv6 Dynamic IP lockdown	
1.3.7	IPv6 support in hardware, providing wire rate forwarding for IPv6 network	
1.3.8	Should support 802.1x authentication and accounting, IPv4 and IPv6 ACLs and Dynamic VLAN assignment.	
1.3.9	Eight egress queues per port for different types.	
1.3.10	During system boots, the system's software signatures should be checked for integrity. System should capable to understand that system OS are authentic and unmodified, it should have cryptographically signed images to provide assurance that the firmware & BIOS are authentic.	
1.4	**Interface**	
1.4.1	Switch should have 24 port supporting **1/10G** and min of 4*40/100G uplink ports.	
1.5	**Certification:**	
1.5.1	Switch shall conform to UL 60950 or IEC 60950 or CSA 60950 or EN 60950 or equivelent Standards, EN/IEC 61000-3-2:2019 , EN/IEC 61000-3-3:2013	
1.5.2	Switch / Switch's Operating System should be tested for EAL 2/NDPP or above under Common Criteria Certification.	