



# PUBALI BANK LIMITED

## ICT OPERATION DIVISION

HEAD OFFICE, 26 DILKUSHA C/A, DHAKA.

PBL/HO/ICTOD/QUOTATION/ 2022

November 24, 2022

### Notice inviting quotation (3<sup>rd</sup> Time) for supply of Cisco Switch for our Bank.

Sealed quotations are hereby invited from bonafide Sellers, Manufacturers, Traders, Importers of CISCO Switch for supply of the same to our Bank as per following specifications.

### Specifications of the Switch :

Access Switch POE (Quantity:01): C9200L-24P-4G		
Item Description	Technical Specifications	Bidder Specification
Quality	ISO 9001/9002 for manufacturer, FCC Class A/B for quality assurance	
Brand	To be mentioned by the bidder	
Model	To be mentioned by the bidder	
Environmental	Maintain International Quality Environmental Safety standard	
Form factor	Rack Mountable with Rack Mounting Kit	
Quantity	01 (One)	
Architecture	Should be highly performed fixed switch with wire rate Layer 2 and Layer 3 throughput on all the ports on the chassis. Should have minimum of 24 ports full PoE+ and 4x 1G fixed uplinks Switch should support stacking feature Switch should support Dual redundant platinum rate power supply and redundant Fans Switch should support SDN technology Should have min. 2GB DRAM & 4GB Flash	
Switching Performance	Minimum Switching capacity 56 Gbps full duplex or more Minimum Forwarding Throughput Minimum 41.66 Mpps or more	
Switch Layer 2 Services	Layer 2 switch ports and VLAN trunks IEEE 802.1Q VLAN encapsulation Support for up to 1000 VLANs ID Minimum 16,000 MAC Address Support minimum 9198 bytes Jumbo frame Support STP, RSTP, EtherChannel/LACP, VLAN Trunking Must have 5 MB of shared buffer for traffic/packet Queuing and processing	
Switch Layer 3 Services	Support Routing Protocols Static, RIP, Policy-Based Routing/Forwarding, Virtual redundant Routing Protocol (VRRP) from day 1 Support Routing protocols IS-IS, IP SLA, OSPFv3 Minimum Up to 2,900 IPv4 route and 1,400 IPv6 route	



	<p>Support minimum 500 L3 VLAN Interfaces or Switched Virtual Interfaces</p> <p>Minimum 16,000 flow entries for security and traffic visibility.</p> <p>Support Internet Group Management Protocol (IGMP), PIM Stub etc.</p> <p>Support QoS with 802.1p Class of Service, Weighted Random Early Detection, DSCP field classification, Class-Based Weighted Fair Queuing, Shaped Round Robin scheduling or similar protocol</p>	
<b>Security features</b>	<p>Support 802.1X, Flexible Authentication, 802.1x Monitor Mode, and RADIUS Change of Authorization</p> <p>Support min.1400 ACL entries</p> <p>Support Port-based ACLs, VLAN ACLs</p> <p>Support Port Security, Dynamic ARP Inspection, and IP Source Guard</p> <p>Support OS, Firmware/BIOS &amp; patch authenticity as encrypted images to protect from unauthorized and modified/cracked images.</p> <p>Support OS validation during booting to protect from threats</p>	
<b>Management features</b>	<p>Support SNMP, syslog, NetFlow or SFlow, Data telemetry collection and correlation for performance monitoring.</p> <p>Support sampled NetFlow/SFlow, Switched Port Analyzer, Remote SPAN, shared NetFlow/SFlow policy, RSPAN and packet capture tool like Wireshark for troubleshooting and network visibility.</p> <p>Support Network automation with Open PnP, Containers, Python scripting, NETCONF, RESTCONF using YANG</p> <p>The switch must have at least 290,000 hours Mean Time Between Failure (MTBF) for hardware reliability.</p> <p>Should support centralize management platform for configuration rollout, change, backup, troubleshooting</p>	
<b>Manufacturer's part number</b>	Bidder should submit BOQ of proposed device including the details part numbers and Manufacturer's Warranty part number	
<b>Warranty</b>	Manufacturer's warranty part number should be mentioned, minimum 3 (Three) years warranty for OEM technical solution support, Patch & New Software Upgrade, RMA replacement should be provided for this unit from the date of commissioning.	

<b>Access Switch POE (Quantity:01): C9200L-48P-E</b>		
<b>Item Description</b>	<b>Technical Specifications</b>	<b>Bidder Specification</b>
<b>Quality</b>	ISO 9001/9002 for manufacturer, FCC Class A/B for quality assurance	
<b>Brand</b>	To be mentioned by the bidder	
<b>Model</b>	To be mentioned by the bidder	
<b>Environmental</b>	Maintain International Quality Environmental Safety standard	
<b>Form factor</b>	Rack Mountable with Rack Mounting Kit	
<b>Quantity</b>	01 (One)	
<b>Architecture</b>	Should be highly performed fixed switch with wire rate Layer 2	