

# PUBALI BANK LIMITED ICT OPERATION DIVISION

# HEAD OFFICE, 26 DILKUSHA C/A, DHAKA.

# PBL/HO/ICTOD/QUOTATION/ 6351/3

November 24, 2022

## Notice inviting quotation (3rd 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 :**

<b>Item Description</b>	Technical Specifications	<b>Bidder Specification</b>
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)	
	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	
Architecture	Switch should support stacking feature	
	Switch should support Dual redundant platinum rate power supply and redundant Fans	
	Switch should support SDN technology	Manufacturer's
	Should have min. 2GB DRAM & 4GB Flash	rija nasti vrsej
Switching Performance	Minimum Switching capacity 56 Gbps full duplex or more Minimum Forwarding Throughput Minimum 41.66 Mpps or more	anierie V
	Layer 2 switch ports and VLAN trunks IEEE 802.1Q VLAN encapsulation Support for up to 1000 VLANs ID	
Switch Layer 2 Services	Minimum 16,000 MAC Address	<b>Item Description</b>
Services	Support minimum 9198 bytes Jumbo frame Support STP, RSTP, EtherChannel/LACP, VLAN Trunking	Centity
	Must have 5 MB of shared buffer for traffic/packet Queuing and processing	Brind
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	Quantity Architecture

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	Support minimum 500 L3 VLAN Interfaces or Switched Virtual Interfaces		
	Minimum 16,000 flow entries for security and traffic visibility.		
	Support Internet Group Management Protocol (IGMP), PIM Stubetc.		
November 24,7 yr Bank,	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		
Laders, Importa is.	Support 802.1X, Flexible Authentication, 802.1x Monitor Mode, and RADIUS Change of Authorization	Sealed quotation CISCO Switch	
	Support min.1400 ACL entries Support Port-based ACLs, VLAN ACLs		
Security features	Support Port Security, Dynamic ARP Inspection, and IP Source Guard		
	Support OS, Firmware/BIOS & patch authenticity as encrypted images to protect from unauthorized and modified/cracked images.		
	Support OS validation during booting to protect from threats		
	Support SNMP, syslog, NetFlow or SFlow, Data telemetry collection and correlation for performance monitoring.	Notel Environmental	
Management features	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.		
	Support Network automation with Open PnP, Containers, Python scripting, NETCONF, RESTCONF using YANG		
	The switch must have at least 290,000 hours Mean Time Between Failure (MTBF) for hardware reliability.		
	Should support centralize management platform for configuration rollout, change, backup, troubleshooting		
Manufacturer's part number	Bidder should submit BOQ of proposed device including the details part numbers and Manufacturer's Warranty part number		
Warranty	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.	Switching Performance	

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Access Switch POE (Quantity:01): C9200L-48P-E		
<b>Item Description</b>	Technical Specifications	<b>Bidder Specification</b>
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	Engra Laberton
Environmental	Maintain International Quality Environmental Safety standard	percenters.
Form factor	Rack Mountable with Rack Mounting Kit	
Quantity	01 (One)	
Architecture	Should be highly performed fixed switch with wire rate Layer 2	

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Support SNMP, syslog, NetFlow or SFlow, Data telemetry collection and correlation for performance monitoring. Support sampled NetFlow/SFlow, Switched Port Analyzer,	
Support OS validation during booting to protect from threats	sorvices
images to protect from unauthorized and modified/cracked images.	
Guard	
and RADIUS Change of Authorization	
Weighted Fair Queuing, Shaped Round Robin scheduling or similar protocol	
Support QoS with 802.1p Class of Service, Weighted Random Early Detection, DSCP field classification, Class-Based	
Support Internet Group Management Protocol (IGMP), PIM Stub	
the second state and a second state of the sec	
Support minimum 500 L3 VLAN Interfaces or Switched Virtual	
Minimum Up to 2,900 IPv4 route and 1,400 IPv6 route	
Support Routing protocols IS-IS, IP SLA, OSPFv3	
Support Routing Protocols Static, RIP, Policy-Based Routing/Forwarding, Virtual redundant Routing Protocol (VRRP) from day 1	
processing	(ilent)
Minimum Forwarding Throughput Minimum 77.38 Mpps or more	n in standiger The second first of
Minimum Switching capacity 104 Gbps full duplex or more	
Should have min. 2GB DRAM & 4GB Flash	
uplinks	
Should have minimum of 24 ports full PoE+ and 4x 1G fixed	
	aplinks 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 Minimum Switching capacity 104 Gbps full duplex or more Minimum Forwarding Throughput Minimum 77.38 Mpps or more 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 for up to 1000 VLANs ID Minimum 16,000 MAC Address Support STP, RSTP, EtherChannel/LACP, VLAN Trunking Must have 5 MB of shared buffer for traffic/packet Queuing and processing 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 Support minimum 500 L3 VLAN Interfaces or Switched Virtual Interfaces Minimum 16,000 flow entries for security and traffic visibility. 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 Support 802.1X, Flexible Authentication, 802.1x Monitor Mode, and RADIUS Change of Authorization Support Port-based ACLs, VLAN ACLs Support Port-based ACLs, VLAN ACLs Support OS, Firmware/BIOS & patch authenticity as encrypted images.

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	Remote SPAN, shared NetFlow/SFlow policy, RSPAN and packet capture tool like Wireshark for troubleshooting and network visibility.	
	Support Network automation with Open PnP, Containers, Python scripting, NETCONF, RESTCONF using YANG	
	The switch must have at least 290,000 hours Mean Time Between Failure (MTBF) for hardware reliability. Should support centralize management platform for configuration rollout, change, backup, troubleshooting	
Manufacturer's part number	Bidder should submit BOQ of proposed device including the details part numbers and Manufacturer's Warranty part number	Switching Performance
Warranty	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.	

	Access Switch (Quantity:01): C9200L-24T-4G-E	4
<b>Item Description</b>	Technical Specifications	<b>Bidder Specification</b>
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)	1
	Should be highly performed fixed switch with wire rate Layer 2 and Layer 3 throughput on all the ports on the chassis.	y costros
	Should have minimum of 24 x 1GE switch ports and 4 x 1G uplinks ports.	
Architecture	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	
	Layer 2 switch ports and VLAN trunks	A COMPANY GALLONG
Switch Layer 2 Services	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	Mangement
	Must have 5 MB of shared buffer for traffic/packet Queuing and processing	(2711flap)

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	Support Routing Protocols Static, RIP, Policy-Based Routing/Forwarding, Virtual redundant Routing Protocol (VRRP) from day 1	baste
	Support Routing protocols IS-IS, IP SLA, OSPFv3	
	Minimum Up to 2,900 IPv4 route and 1,400 IPv6 route	
	Support minimum 500 L3 VLAN Interfaces or Switched Virtual	
Switch Layer 3	Interfaces	
Services	Minimum 16,000 flow entries for security and traffic visibility.	
	Support Internet Group Management Protocol (IGMP), PIM Stubetc.	
	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	
	Support 802.1X, Flexible Authentication, 802.1x Monitor Mode, and RADIUS Change of Authorization	
	Support min.1400 ACL entries	
	Support Port-based ACLs, VLAN ACLs	
Security features	Support Port Security, Dynamic ARP Inspection, and IP Source Guard	
т.	Support OS, Firmware/BIOS & patch authenticity as encrypted images to protect from unauthorized and modified/cracked images.	
	Support OS validation during booting to protect from threats	1.247 TOPOLO
	Support SNMP, syslog, NetFlow or SFlow, Data telemetry collection and correlation for performance monitoring.	
Management features	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.	
	Support Network automation with Open PnP, Containers, Python scripting, NETCONF, RESTCONF using YANG	
	The switch must have at least 290,000 hours Mean Time Between Failure (MTBF) for hardware reliability.	
	Should support centralize management platform for configuration rollout, change, backup, troubleshooting	ore italic Larger 3 Services
Manufacturer's part number	Bidder should submit BOQ of proposed device including the details part numbers and Manufacturer's Warranty part number	2
Warranty	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.	- E.

	Access Switch (Quantity:01): C9200L-48T-4G-E	and the second se
<b>Item Description</b>	Technical Specifications	<b>Bidder Specification</b>
Quality	ISO 9001/9002 for manufacturer, FCC Class A/B for quality	

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	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)	Emprel-dation
	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 48 x 1GE switch ports and 4 x 1G	essi non
	uplinks ports.	
Architecture	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 104 Gbps full duplex or more Minimum Forwarding Throughput Minimum 77.38 Mpps or more	souther transport
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 Support minimum 500 L3 VLAN Interfaces or Switched Virtual	ายอาณาจากครไป ระเทศจา
	Interfaces Minimum 16,000 flow entries for security and traffic visibility.	
	Support Internet Group Management Protocol (IGMP), PIM Stubetc.	
	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	aamisW
Security features	Support 802.1X, Flexible Authentication, 802.1x Monitor Mode, and RADIUS Change of Authorization Support min.1400 ACL entries	
sidder Shootfeath	Support Port-based ACLs, VLAN ACLs	
	Support Port-based ACLS, VLAN ACLS Support Port Security, Dynamic ARP Inspection, and IP Source	

vs of <b>receiving</b> v confiscation. (c) without resign)	Guard Support OS, Firmware/BIOS & patch authenticity as encrypted images to protect from unauthorized and modified/cracked images. Support OS validation during booting to protect from threats	, Bidder inti order Ocly Ese antroi atty reason	(8) (0
se at their own an	Support SNMP, syslog, NetFlow or SFlow, Data telemetry collection and correlation for performance monitoring.	Bank may	(01
outine produces	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.		
Management features	Support Network automation with Open PnP, Containers, Python scripting, NETCONF, RESTCONF using YANG		
n an Shaqiji shiri an Shini da Shiriya Shiri	The switch must have at least 290,000 hours Mean Time Between Failure (MTBF) for hardware reliability.		
	Should support centralize management platform for configuration rollout, change, backup, troubleshooting and performance analysis feature.	offered in prime inc	
Manufacturer's part number	Bidder should submit BOQ of proposed device including the details part numbers and Manufacturer's Warranty part number	Photocory Matheiul S	61
Warranty	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.	profile (or / Bid to hef?) / Miles (Diff)	isto Kent

#### Terms and conditions:-

- 1) The offer must be submitted through "Offering Sheet" enclosed with the schedule.
- The Switch will be under comprehensive Warranty for full 3(three) years from the date of delivery.
- 3) In case of any trouble with the Switch within the warranty period the supplier shall have to replace/repair the Item free of cost at the premises of the Branch/Office where it will be supplied within 24(twenty four) hours. If the Item is not in repairable condition on the premises, it should be replaced by a similar one within 24 (twenty four) hours from getting the information of trouble prior to bring the same at their end for repairing purpose. In case of failure of the supplier, the Bank shall have the right to get the replacement or repairing works done by other agency at the cost of the supplier. Such costs will be recovered from the supplier and the supplier shall have no objection to it.
- 4) Payment of the bills will be made from ICT Operation Division, Head Office, after delivery of the same to the Branches/Offices as per terms of the Supply Order.
- 5) **10% (ten percent) of the bill amount** will be retained as Security Money which will be paid to the supplier after expiry of the warranty period at the satisfaction of the purchaser.
- 6) All Tax, Vat, Govt. Duties etc. will be deducted from the bill as per rule prior payment of the same.
- 7) Bidder must have at least 60% of the total product in stock or already on shipment (shipment documents must be submitted with the tender documents).

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- 8) Bidder must ensure delivery of all products (100%) within 60 (sixty) days of receiving work order. Delaying of product delivery will be resulted into Security Money confiscation.
- 9) The authority reserves the right either to accept or to reject all or any offer without assigning any reason.
- 10) Bank may ask the successful bidder to store the products at their warehouse at their own cost.
- 11) Warranty (Local) of the products will be started from the date of delivery of the products at ICT Operation Division after getting Work Order against specific Branch.
- 12) Bank will pay the full/partial amount of the products after ensuring the availability of all/partial products at successful bidder's warehouse.
- 13) Successful Bidder may submit full/partial bill amount after submitting the specific serial numbers of the products (full/partial).
- 10) Bank is not bound to accept the lowest Quotation. To be successful in the bid, quality of the offered items, financial capability, reputation etc. of the firm as assessed by the Bank are the prime factors for consideration.
- 11) Photocopy of Trade License, TIN Certificate, VAT registration Certificate (if any), Financial Solvency Certificate (if any), Appreciation letter, Major client List and Company profile to be submitted with the Quotation.

Offer / Bid to be dropped in the Tender Box kept in Establishment Division, Pubali Bank Limited, Head Office, 12<sup>th</sup> Floor, 26 Dilkusha C/A, Dhaka by 11-00 a.m. up to 07-12-2022 which will be opened on the same day at 11.30 a.m. in presence of the bidders present (if any).

#### Sd/-

#### (Md. Aminul Islam) Asst. General Manager

### Sd/-(Md. Helal Uddin) GM & Division Head

CC TO : The Member Secretary, Purchase Committee, Pubali Bank Ltd., Head Office, Dhaka for information and necessary action.

CC TO: Notice Board, Pubali Bank Ltd., Head Office, Dhaka .

CC TO: www.pubalibangla.com

Asst. General Manager



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