

MMBL/CSD/RFQ/2021/0004

Date: 11/02/2021

Subject: Request for Quotation (RFQ) of Routers, POE Switch, Flatbat Scanner for Modhumoti Bank Limited.

Dear Sir,

Modhumoti Bank Limited wants to procure **Routers** from reputed companies. In this connection, we would request you to submit your financial and technical offer as per below requirements.

1. Router			
ITEM DESCRIPTION	TECHNICAL SPECIFICATIONS	BIDDER SPECIFICATION	Unit Price
Brand	Brand: Any International reputed Brand		
Model	Model: To be mentioned by the bidder		
Country of Origin:	USA/UK		
Performance	Should provide traffic performance 250 Mbps or more		
Memory	Memory: 4 GB DRAM & 4 GB Flash		
Interface	Router should have minimum 1 Nos of 10/100/1000 WAN ports as 1 port Copper/SFP combo port and minimum 8 ports 10/100/1000 LAN ports from day 1. from LAN port, at least 4 ports should be PoE 802.3af-compliant or at least 2 port should be PoE+ 802.3at-compliant port from day 1.		
General Features	Should support minimum 50 Mbps IPsec performance from day 1 which can be upgrade 150 Mbps if future		
	Should support static routes, OSPF, BGP		
	Should support LISP, Virtual Private LAN Services (VPLS), L2TPv3, MPLS & Ethernet over MPLS		
	Should support hardware assisted VPN acceleration for crypto performance in future without any hardware change		
	Security: Should support DES, 3DES, VPN compliant IPsec, AES-128 or AES-256 for encryption and RSA (748 /1024/2048 bit) and ECDSA (256/384 bit) as authentication protocol in future without any hardware change		
	Should support PPPoE, Layer 2 Tunneling Protocol Version 3, IPsec based VPN,GRE Over IPsec VPN, site-to-site, remote access software based VPN over IPv4 and IPv6		
	Should support dynamic failover protocols such as Virtual Router Redundancy Protocol (VRRP; RFC 2338)		
	Network Services: IPv4, DNS, DHCP Client, DHCP Server, DHCP relay & AAA		
	QoS: Packet Shaping, Traffic Policing, Per-flow queueing, Class-based queueing		

	Should support modular OS on open platform with programmable and automation feature to support software defined WAN (i.e. link optimization, application visibility/detection, traffic load balancing, performance analysis for routing etc.)		
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 1 (One) year warranty for OEM technical solution support, Patch & New Software Upgrade, RMA replacement should be provided for this unit from the date of commissioning.		

2. POE Switch			
ITEM DESCRIPTION	TECHNICAL SPECIFICATIONS	BIDDER SPECIFICATION	Unit Price
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		
Architecture	Router Should Have 48-port PoE+,4x1G uplink Switch		
	Should be highly performed fixed switch with wire rate Layer 2 and Layer 3 throughput on all the ports on the chassis.		
	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		
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 Interfaces		
	Minimum 16,000 flow entries for security and traffic visibility.		
	Support Internet Group Management Protocol (IGMP), PIM Stub etc.		
	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		
Security features	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		
	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		
Management features	Support SNMP, syslog, NetFlow or SFlow, Data telemetry collection and correlation for performance monitoring.		
	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 and performance analysis feature.		
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 1 (One) years warranty for OEM technical solution support, Patch & New Software Upgrade, RMA replacement should be provided for this unit from the date of commissioning.		
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3. Flatbat Scanner Specification:		BIDDER SPECIFICATION	Unit Price
Scanner Brand	Given By Supplier		
Scanner Model	Given By Supplier		
Scanner Type	Flatbed Scanner		
Scanner Element	CIS (Color Contact Image Sensor)		
Light Source	3-Colour (RGB) LED		
Optical Resolution	2400 X 2400dpi		
Selectable resolution	25 – 19200dpi		
Grayscale	16-bit-input 8-bit output		
Color	48-bit input (16-bit for each color) Win:[48 or 24-bit output (16-bit or 8-bit for each color)] Mac:[24-bit output (8-bit for each color)] 48-bit: Windows TWAIN Drive Only		
Maximum Document Size	A4 / Letter (216 x 297mm)		
Power Supply	Supplied via USB port		
Supported Operating Systems	Windows 10, Windows 8.1, Windows 7 OS X 10.11.6, macOS 10.12 ~ macOS 10.13		

General Terms and Conditions:

1. Purchaser's Right: The Purchaser reserves the right to accept/ cancel/ reject any or all offer without assigning any reason. The Purchaser is not obliged to purchase the lowest offer or any offer at all. The Purchaser reserves the right to share the Bidder's response to this RFQ with its advisors and Purchaser Business Units. Purchaser reserves the right to: conduct negotiations with one or more Bidder and/ or accept the Bid without any negotiations.
2. Bid Submission/ Closing Date: The Quotation shall be mail to the below mentioned address:
Chairman Purchase Committee, CSD Division Level-7, Modhumoti Bank Limited, Gulshan, Dhaka by 12:00 PM (Bangladesh Standard Time) 18, February, 2021. The Purchaser reserves the right to reject any Quotation submitted after the Closing Date. The Purchaser reserves the right to change the Time schedule at any time.
3. Required Content of the Quotation: Quotation must be submitted as per prescribed form as instructed below:

- Proposal must be addressed for “Chairman Purchase Committee” of Modhumoti Bank Limited.
 - Complete proposal/offer must be signed with date by the authorized representative of the company.
4. Quotation Validity: The Quotation shall be valid for 1 year (365) calendar days from the Quotation submission/ closing date.
5. Manipulation or any kind of unusual approach or failure to submit the proposal/offer within stipulated time frame will be treated as “Disqualification” to attend in the bidding.
- 6. Commercial Terms and Conditions:**
- Price: The quoted price should include applicable VAT. The rate of VAT should be mentioned in the quotation.
 - Payment Terms: Payment will be made after Final Acceptance (FAC will be given after successful delivery) & upon submission of the bill with work order & original challan which is duly signed by authorized personnel (Name & Seal, if available). Payment will be made through Bank Account only.
 - Price Submission: The bidder shall have to submit the price in the letter head pad.
 - The Bidder shall have to submit their proposal as per the format attached with the RFQ. Any proposal not following the format will be considered as disqualify and will not consider for evaluation.

With kind regards,

S.M.Shahin Iqbal

AVP, Head of CSD

Head Office | Modhumoti Bank Limited,

Head Office, 94, Khandkar Tower (Level-7),

Gulshan Avenue, Gulshan, Dhaka.