

Islami Bank Bangladesh PLC
 Operations Wing
 Procurement of Computer Hardware
 And Accessories Department (PCHAD)
20, Dilkusha C/A (9th Floor), Head Office, Dhaka

Notice inviting Tender for supplying, installing & commissioning of different Core Network devices (Routers, Firewalls, Switches, and VPN Gateway) including required licenses/subscription and accessories for the DC, Dhaka & DRS, Rajshahi of IBBPLC

Sealed Tenders are hereby invited by Islami Bank Bangladesh PLC from reputed Manufacturers / Local Agents / Companies / Dealers / Distributors/Sellers/ for supplying, installing & commissioning of different Core Network devices (Routers, Firewalls, Switches, and VPN Gateway) including required licenses/subscription and accessories for the DC, Dhaka & DRS, Rajshahi of IBBPLC under the following terms and conditions:

Lot- 1: Technical specification of Routers for different Network Zones and Areas in DC-DRS

SN	Device Name	Qty.	Required Resource Capacity of the devices for upcoming Tender	Bidders Response
1.	Branch Core Router (DRS, Rajshahi)	2	<p>Routers should have Multi-core processors, and be equipped with redundant Power Supply <u>from Day one</u></p> <p>Memory: 64 GB (Minimum)</p> <p>Interface: 6X10GE SFP+ (Switching Port only, routed port is no longer required) all ports/slots must be fully Populated with respective OEM SFP modules from day one</p> <p>Routing throughput: 100Gbps (min)</p> <p>Route processor: Embedded Route Processor</p> <p>Min. 05 (five) Years OEM Warranty and Local Supports</p>	
2.	ATM Core Router (DRS, Rajshahi)	2	<p>Routers should have Multi-core processors, and be equipped with redundant Power Supply Day one</p> <p>Memory: 32 GB (min.)</p> <p>Interface: min. 4X10GE SFP. &: min. 4 x 1G-Rj45 all ports/slots must be fully Populated with respective OEM SFP modules from day one</p> <p>Routing Throughput: 32Gbps (min.)</p> <p>Min. 05 (five) Years OEM Warranty and Local Supports</p>	
3.	BACH ROUTER (DC and DRS)	4	<p>Routers should be modular architecture, have Multi-core processors, and be equipped with redundant Power Supply <u>from Day One</u></p> <p>Memory: 8 GB (minimum), Flash: 8 GB (minimum)</p> <p>Interface: 4 x 1-Gigabit Ethernet WAN port and 8 x 1-Gigabit Ethernet Switch ports all ports/slots must be fully Populated with respective OEM SFP modules from day one.</p> <p>Min. 05 (five) Years OEM Warranty and Local Supports</p>	
4.	INTERNET ZONE ROUTER (DRS, Rajshahi)	2	<p>Routers should be modular architecture, have Multi-core processors, and be equipped with redundant Power Supply.</p> <p>Memory: 32 GB(minimum), Flash: 16 GB(minimum)</p> <p>Storage: 32GB (minimum)</p> <p>Interface: 4 x 10-Gigabit Ethernet and 8 x 1-Gigabit Ethernet ports all ports/slots must be fully Populated with SFP modules</p> <p>Routing Throughput: 10Gbps (min.)</p> <p>Min. 05 (five) Years OEM Warranty and Local Supports</p>	

Lot- 2: Technical specification of Firewalls for different Network Zones and Areas in DC-DRS:

SN	Device Name	Qty.	Required Resource Capacity of the devices for upcoming Tender	Bidders Response
1.	EXTRANET ZONE VPN Device (DRS, Rajshahi)	2	<p>CPU: Multi-core processors, and be equipped with redundant Power Supply from day one.</p> <p>Storage: 800 GB, (Minimum.)</p> <p>Interface: 8 x 10 SFP+ and 8x10 GE Copper all ports/slots must be fully Populated with respective OEM GLCTE/SFP modules</p> <p>VPN Peer or Tunnel: 6000 (minimum.)</p> <p>Encryption: Should be capable of AES-256 for VPN</p> <p>High availability: Active/Active, Active/Standby clustering. Should support up to 4 nodes (min.) in a single cluster.</p> <p>IPSec VPN Throughput: 10 Gbps (Min)</p> <p>The device shall be capable of doing Site-to-Site IPSEC, Remote Access VPN, , Route based tunnels, Should have all the dynamic routing features.</p> <p>Min. 05 (five) Years OEM Warranty and Local Supports with perpetual license (if any) up to EOS of the devices.</p>	
2.	CORE ZONE FIREWALL (DRS, Rajshahi)	2	<p>CPU: Should have Modular architecture appliance, redundant Power supply from day one.</p> <p>Memory: 512GB 3200 Mt/s (minimum)</p> <p>Storage: Two 1.8 TB (min.) SSDs</p> <p>Interface: 8 x 10/25 Gigabit Ethernet ports (SFP28), 8 x 10/25 Gigabit Ethernet SFP+ (SFP28) network modules, 4 x 40 Gigabit Ethernet Quad SFP+, all ports/slots must be fully Populated with respective OEM SFP modules</p> <p>High availability: Active/Active, Active/Standby, Clustering. Should Support Multi-instance solution.</p> <p>NGFW Throughput:75 Gbps (minimum)</p> <p>IPS Throughput:70 Gbps (minimum)</p> <p>New Conn: Min 1.5 M (minimum)</p> <p>Concurrent connection: 70 M (minimum)</p> <p>Centralized Management System: Appliance based maintaining HA (Memory- 64 GB min, event storage space-1.8 Tb min., Storage-min. 4X 600-GB 10-K SAS HDDs RAID 5, hot swappable)</p> <p>License: 5 Years License: IPS/Threat Prevention, Vulnerability Protection, Anti Malware/Anti-Virus, Anti Spyware, Anti APT, URL Filtering, Content filtering, IP Reputation check, Geo-location Check, Cloud Sandboxing, Virtual Firewall/Security Context, from day 1.</p> <p>Warranty: 05 (five) Years OEM Warranty and Local Support.</p>	
3.	INTERNET ZONE FIREWALL (DRS, Rajshahi)	2	<p>Architecture: Must have minimum 1 CPU with 24 Physical Cores from day one.</p> <p>Memory: Minimum 64 GB DRAM from Day one</p> <p>Storage: Minimum 480 GB SSD internal system storage from day one</p> <p>Interface: 10G copper (8 units), 10G SFP+ (12 units), 25G/40G QSFP28 (4 units) from day one.</p> <p>All ports/slots must be fully Populated with respective OEM SFP modules</p> <p>High availability: active/ active or active/ passive or HA cluster.</p> <p>NGFW Firewall Throughput:34 Gbps (minimum)</p> <p>Threat Prevention Throughput: 18 Gbps (minimum)</p> <p>Should keep the 64 KB HTTP/appmix/IMIX.</p> <p>Cloud based sandboxing of NGFW should support analysis of minimum 100000 files/Day</p> <p>Unknown malware analysis service should be able to perform dynamic threat analysis on such as EXEs, DLLs, ZIP files, PDF documents,</p>	

			Office Documents, Java®, Android APKs, Adobe Flash applets, Web pages that include high-risk embedded content like JavaScript, Adobe Flash files. MAC OS and DMG file types	
			Max New Conn: 250 K/s (Minimum.) utilizing 1-byte HTTP transactions. Max Conc. session: 3 Million (minimum) with threat prevention features enabled (HTTP transactions)	
			Central Management System: (Offer would be submitted for both options.) Option-1: Appliance based (Storage- min. 2 TB RAID Certified HDD (24) for 24 TB of RAID storage). Option-2: VM based Core – min. 16 CPU, Memory-32 GB min. and Log Storage Capacity-8Tb min. (all respective license, OS and Hardware should be included)	
			License: 5 Years OEM Subscription and License: IPS/Threat Prevention, Vulnerability Protection, Anti Malware/Anti-Virus, Anti Spyware, Anti APT, URL Filtering, Content filtering, IP Reputation check, Geo-location Check, Cloud Sandboxing, Virtual Firewall/Security Context from day one	
			Warranty: 05 (five) Years min. OEM Warranty and must have Local depo (in BD)	
4.	EXTRANET ZONE FIREWALL (2 units for DC and 2 units for DRS, Rajshahi)	4	CPU: Modular/ASIC architecture based appliance with redundant Power supply from day one.	
			Storage: 2x 1TB on board SSD storage.	
			12 x 10 GE Ethernet, 8X 25GE SFP28 /10GE SFP+, 2x 40 GE QSFP+ ports (min.) all ports/slots must be fully Populated with respective OEM SFP modules	
			High availability: Active-Active or Active-Passive or HA Clustering.	
			NGFW Throughput: 16 Gbps (min)	
			Threat Protection : 15 Gbps (min.)	
			Max New Conn: 750 K (Min)	
			Max Conc. session: 10M (min.)	
			Centralized Management System: (Offer would be submitted for both options.) <u>Option-1:</u> Appliance based (Storage capacity-16 TB min, redundant Power supply, should be HA/cluster). <u>Option-2:</u> VM based i.e. vCPU support-4 min., Memory-32 GB (min.), storage- 1 TB (min.) with HA (all respective license, OS and Hardware should be included)	
			License: 5 Years OEM Subscription and License: IPS/Threat Prevention, Vulnerability Protection, Anti Malware/Anti-Virus, Anti Spyware, Anti APT, cloud Sandboxing, Virtual Firewall/Security Context, Firewall Management.	
			Warranty: 05 (five) Years OEM Warranty and Local Support, OEM should have local depo in Bangladesh	

Lot-3: Technical specification of Switching Devices for ISP Aggregation, Out of Band Management, Zones, and SDN:

SN	Device Name	Qty.	Required Resource Capacity of the devices for upcoming Tender	Bidders Response
1.	BORDER LEAF SWITCH (DRS, Rajshahi)	2	CPU: 4 cores (Minimum), Memory: 32 GB (Minimum), Storage: SSD: 128 GB (Minimum), Interface: 48 x 10/25G SFP28 ports 6 x 40/100G QSFP28 ports, Management Ports: 1 RJ45 and 1 SFP, Transceiver: 48X Dual Rate 10/25GBASE-CSR SFP Module, 6X 100G and 40GBASE SR-BiDi QSFP Transceiver, LC, 100m OM4 MMF, Power Supply: Dual power supply, Throughput: 3.6 Tbsp. BW (minimum)	
2.	SPINE SWITCH (DRS, Rajshahi)	2	CPU: 4 cores (Minimum), Memory: 32 GB (Minimum), Storage: SSD: 128GB (minimum), Interface: 28 x 100/40-Gbps QSFP28 (minimum) 6X400/100 Gbps QSSF-DD Ports (40/100-Gbps on downlinks 40/100/400-Gbps on uplinks) Management Ports: 1 RJ45 and 1 SFP, Transceiver: 20 X 100G and 40GBASE SR-BiDi QSFP Transceiver, LC, 100m OM4 MMF, Power Supply: Dual power supply, Throughput: 12.8 Tbsp. BW (minimum)	
3.	FIBER LEAF SWITCH (2 for DC & 2 for DRS)	4	CPU: 4 cores (Minimum), Memory: 32 GB (Minimum), Storage: SSD: 128 GB (Minimum), Interface: 48 x 10/25G SFP28 ports, 6 x 40/100G QSFP28 ports, Management Ports: 1 RJ45 and 1 SFP, Transceiver: 48X Dual Rate 10/25GBASE-CSR SFP Module 6X 100G and 40GBASE SR-BiDi QSFP Transceiver, LC, 100m OM4 MMF, Power Supply: Dual power supply, Throughput: 3.6 Tbsp. BW (minimum)	
4.	COPPER LEAF SWITCH (2 for DC & 2 for DRS)	4	CPU: 4 cores (Minimum), Memory: 32 GB (Minimum), Storage: SSD: 128 GB (Minimum), Interface: 48 x 10/25G Base-T 6 x 40/100G QSFP28 ports, Management Ports: 1 RJ45 and 1 SFP, Transceiver: 6X 100G and 40GBASE SR-BiDi QSFP Transceiver, LC, 100m OM4 MMF, Power Supply: Dual power supply, Throughput: 3.6 Tbsp. BW (minimum)	
5.	IPN/ISN SWITCH (DRS, Rajshahi)	2	CPU: 4 cores (Minimum), Memory: 32 GB (Minimum), Storage: SSD: 128 GB (Minimum), Interface: 24 x 10/25G QSFP28 ports 6 x 40/100G QSFP28 ports, Management Ports: 1 RJ45 Port, Transceiver: 24X Dual Rate 10/25GBASE-CSR SFP Module 6X 100G and 40GBASE SR-BiDi QSFP Transceiver, LC, 100m OM4 MMF, Power Supply: Dual power supply, Throughput: 2.16 Tbps BW (minimum)	
6.	Centralized Network Controller 3 Server Cluster (DR, Rajshahi)	1 Lot	APIC-M4: (Cluster-3 Server) APIC with medium-size CPU, hard drive, and memory configurations (up to 1200 edge ports) Processor: AMD 3.0GHz 7313P 155W 16C/128MB Cache DDR4 3200MHz or Similar Xeon Scalable. Memory: 6X16GB RDIMM SRx4 3200 (8Gb) Storage: SSD: 3X960GB 2.5in Enterprise performance 6GSATA SSD(3X endurance) 3X 240GB SATA M.2 3X 480GB 2.5in Enterprise Performance 6GSATA SSD(3X endurance) Interface: 3 X Dual 25/10 GBE SFP28 PCIe NIC 3 x Intel X710T2LG 2x10 GBE RJ45 PCIe NIC Transceiver: 6X Dual Rate 10/25GBASE-CSR SFP Module Power Supply: Dual power supply <u>All other OEM/Brand would be requested to submit the parallel centralized network controller with detailed spec.</u>	

7.	Multisite Orchestration Platform (DRS, Rajshahi)	1 Lot	<p>ND-Node-L4: 3 platform node (based on Cisco UCS M6 Server) IMC SW (Recommended) latest release for C-Series Servers for each node</p> <p>Processor: AMD 2.8GHz 7443P 200W 24C/128MB Cache DDR4 3200MHz. For each Node</p> <p>Memory: 8X 32GB RDIMM DRx4 3200 (8Gb) for each Node</p> <p>Storage:</p> <p>SSD: 960GB 2.5in Enterprise performance 6GSATA SSD(3X endurance) and 240GB SATA M.2 for each node</p> <p>Hard Disk: 4X 2.4 TB 12G SAS 10K RPM SFF HDD (4K) for Each Node</p> <p>NVMe: 1.6TB 2.5in U.2 P5620 NVMe High Perf High Endurance for each Node</p> <p>Power Supply: Dual power supply for USC C-Series</p> <p>Interface: 3 X APIC Intel X710T2LOCPV3G1L 2x10GbE RJ45 OCP3.0 NIC</p> <p>Transceiver: 6X Dual Rate 10/25GBASE-CSR SFP Module</p> <p>All other OEM/Brand would be requested to submit the parallel centralized network controller with detailed spec.</p>	
8	ISP Aggregation Switch for WAN	4	<p>Interface: 24X10GE, Uplink 2X10/25GB, RAM/Memory: 4 GB (minimum), PSU: Dual power supply, Switching: Layer 2 switching all ports/slots must be fully Populated with SFP+ 10G Base-T</p>	
9	ISP aggregation Switch (OOB, BACH, Internet & Extranet Link)	8	<p>Interface: 24X 1GE and uplink 2 X10 GE/SFP+</p> <p>RAM/Memory: 2 GB (minimum), PSU: Dual power supply</p> <p>Switching: Layer 2 switching uplink ports/slots must be Populated with SFP+ 10G Base-T</p>	
10	Passive Accessories	1 Lot	<ul style="list-style-type: none"> All SFP Modules within the respective capacity (i.e. 10 GBPS, 25 GBPS, 40Gbps, and 100 Gbps would be calculated as per requirement mentioned above. All types of Patch Cord (Copper Patch Cord, Fiber Optic Patch Cord) within the respective cable length (5 m, 10 m, 15 m, 20 m, and 30 m) and quantity would also been included. 	
Warranty		<p>All Switching Devices including SDN will be min. 05 (five) Years OEM Warranty and Local Support.</p>		

Detailed technical specifications of those items is mentioned in the Tender document.

Terms and Conditions:

- I. Availability of Tender:** The intending bidders have to apply on their letterhead pad and must submit documentary evidence like VAT registration Certificate, Up-to-date Trade License & TIN Certificate, and Authorization letter from OEM duly issued by the Head office directly or by the regional office of the OEM/Dealer/Distributor in case of reseller for delivering of the related item, Certificate in support of their past experience and specialization in the field. On being satisfied with documents submitted by the applicant, Tender document will be sold to the intending bidders from Procurement of Computer Hardware and Accessories Department (PCHAD), OW, IBBPLC, Head office, Yousuf Chamber (9th floor), 20, Dilkusha C/A, Dhaka during Office hours from **08.12.2024 to 14.01.2025** upon payment of **Tk.5,000/-** in cash (non-refundable). No Tender document will be issued/ received by mail.
- II. Tender Submission:** Tenders will be received at the office of the undersigned up to **03:00 PM on 15.01.2025** and Technical offer(s) will be opened **at 3:15 PM on the same date i.e. 15.01.2025** at the same place in the office of the undersigned in the presence of the bidder(s) or their representative (who may like to attend). After completion of technical evaluation, only the financial offer(s) of technically qualified bidder(s) will be opened through informing the same to technically qualified bidder(s).

III. Pre bid Meeting & Amendment: A pre-bid meeting will be held on 22.12.2024 at 11:00 AM at Procurement of Computer Hardware and Accessories Department (PCHAD), Operations Wing, IBBPLC, Head office, Yousuf Chember (9th floor), 20, Dilkusha C/A, Dhaka. The Bank will issue the necessary amendment of this document within a shortage possible time if any error(s) is / are detected and informed to the bank in writing through mail/hard copy by any bidder(s) within 23.12.2024.

IV. Earnest Money: 2.5% (two point five percent) of the total tender amount must be submitted along with the financial offer of the tender as bid security in favour of Islami Bank Bangladesh PLC in the form of Bank Draft/ Pay Order/ Bank guarantee from any scheduled Bank of Bangladesh preferably from Islami Bank Bangladesh PLC without which the Tender shall be rejected outright.

V. Tender Preparation: An original and one copy of the Offer duly marking “Original Offer Technical” and “Copy of the Offer Technical” in an envelope and “Original Offer Financial” and “Copy of the Offer Financial” in another envelope should be submitted separately at the time of tender submission with authentication by the Tenderers. A combination of Technical and Financial Offer will be disqualified. The bid form must be filled in through a computer printer or in typing without overwriting and without any erasing and modifications.

VI. Reservation: Islami Bank Bangladesh PLC reserves the right to accept any tender and reject any or all tenders without assigning any reasons whatsoever. Islami Bank Bangladesh PLC is not bound to purchase the item from the lowest bidder.



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