



Eastern Refinery Limited

ইস্টার্ন রিফাইনারী লিমিটেড

Specifications of a Core Switch and Accessories

Date: 12/02/2024

Specifications Details			
Item No	Item	Property	Description
1	Core switch	Brand	Cisco
		Model	Bidders must specify the model
		Quantity	1 (one).
		Country of origin	USA
		Country of Manufacture	To be mentioned by the bidder
		Form Factor	1 RU, Rack mountable with rack mounting kit
		Architecture	Min 16*10G SFP+ transceiver based port from day one.
			Should support 10G and 1G Ethernet on all SFP+ ports
			Layer 2 and Layer 3 throughput on all the ports of the chassis and support virtual stacking
		Switching capacity	475 Gbps (min)
		Forwarding rate	350 Mpps (min)
		DRAM	16 GB (min)
		Flash	16 GB (min)
		VLAN IDs	4000
		Layer 2 Services	Layer 2 switch port and vlan trunks
			Must have 35MB shared buffer for traffic queuing and processing
		Power supply	2* 950W AC config Power supply front to back cooling
		Security Feature	Switch should support 802.1x for user authentication and authorization dynamic vlan assignment, MAC based authentication.
		Authorization	Manufacturer authorization certificate to be submitted along with the bid.
		Manufacturer's part number	Bidder should submit BOQ of proposed device including details parts number and manufacturer warranty.
		Management Feature	Should support SNMP, Syslog Netflow data telemetry for performance monitoring
			Should support patch management feature, VLAN, RSPAN and ERSPAN
			Switch must have at least 315000 hours Mean Time between Failure(MTBF)
		Installation, testing and commissioning	Bidders must carry out on site installation, testing and commissioning. The bidder must configure security and administration policies and make the network functional and shall provide respective documentation to IT department.
		Warranty and support	Manufacturer's warranty part number should be mentioned, minimum 3(three) years warranty for OEM technical solution supports, patch and new software upgrade, RMA replacement should be provided for this unit from the date of commissioning.
2	SFP GLC-TE module	Brand	Cisco
		Quantity	2 (two).
		Interfaces	1 x Ethernet 1000Base-T - RJ-45; MTBF: 1000000 hours;
		Description	1000Base T SFP transceiver module for category 5 copper wire, full duplex capability and auto-negotiation
		Warranty	1 Year including supply, installation, configurations and troubleshooting
		Manufacturer	Bidder should submit BOQ of proposed device including the details part

		part number	numbers
3	SFP module	Brand	Cisco
		Model	SFP-10G-SR
		Quantity	6 (six)
		Description	10GBASE-SR 850nm MMF Transmit and Receive Wavelength (nm) 840 to 860
		Warranty	1 Year including supply, installation, configurations and troubleshooting
		Manufacturer part number	Bidder should submit BOQ of proposed device including the details part numbers
4	Access Switch	Brand	Cisco
		Model	C1000-24P-4X-L
		Quantity	1(one)
		Description	Catalyst 1000 24x 10/100/1000 Ethernet PoE+ ports and 195W PoE budget, 4x 10G SFP+ uplinks; RAM: 512MB; Flash Memory: 256 MB; Switching bandwidth: 128 Gbps; Forwarding bandwidth: 64 Gbps; with AC Power cord and power retainer clip
		Warranty	1 Year including supply, installation, configurations and troubleshooting
		Manufacturer part number	Bidder should submit BOQ of proposed device including the details part numbers.

Terms and Conditions for the procurement of Core Switch:

- (a) The tenderer must have a minimum of 5 years of experience in the supply, installation, and maintenance of IT solutions (network items).
- (b) The tenderer shall have at least 5 (five) numbers of similar working experience on the proposed product, especially in any government, semi-government, company, or multinational autonomous body in the last 3 years. The tenderer must submit the relevant NOA/PO as proof.
- (c) The tenderer must be a premier partner of the proposed products' OEM and needs to submit a relevant partnership certificate.
- (d) The tenderer must provide support engineers & technical teams' profiles as a reference.
- (e) The tenderer must have a servicing facility and will reach physically at ERL within 1 working day of the complaint and must provide remote support within 2 hours of the complaint.
- (f) Bidders should submit Manufacturer Authorization Letter from respective OEM.

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