

INFORMATION TECHNOLOGY DEPARTMENT
NDMC: PALIKA KENDRA, NEW DELHI
Ph: 41501383(D), 41501353 - 60 Ext. 2701

No.D/~~117~~JD(IT)/2018

Date: 06/03/2018

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Sub: Budgetary Quotation for SAN Switch in HA Mode

Sir,

Please quote your rate for **Supply, Installation & proper Configuration (zoning) of Budgetary Quotation for SAN Switch in HA Mode** in sealed cover duly subscribed with quotation no. and date. Your sealed quotation must reach this office by 3:00 P.M. on due date i.e. 12/03/2018 at room no 7008, 7th floor, IT Department, Palika Kendra Sansad Marg New Delhi 110001

It shall be responsibility of quotationer to ensure that their quotation reaches in time. As quotation received after the due date and time will not be considered.

Scope of work

IT Department, NDMC running various IT enabled citizen centric services/applications for providing best services to our citizens. These services are running 24X7 environments and related to commercial transaction

The scope of the work is supply of new SAN Switch, installation, testing and training of our officers. Bidder should ensure that equipment meets the relevant industry standards. Equipment should have been calibrated and certified by the authorized laboratories and certificate must be supplied with it, if any. All the features, required as per specification, are to be tested in the supplied equipment with necessary document and media files by supplier at the time of testing the equipment

Our environment (SAN Storage): Department having currently 03 SAN Storage of different OEM i.e Netapp, Fujitsu and HPE and all are connected through these san switch (HA Mode) and regarding servers department having 32 blades servers of HPE,IBM and Dell

Technical future are required are mandatory of SAN Switch in HA (High availability) mode

ITEM	SAN Switch	
Brand Name		
Model		
Feature	Technical Specification	A available Specification (Specify Exact Specification. Do not write Yes, No, compliance and Non compliance)
1. Fixed 10Gig BaseT Ports	minimum of 24 or More	
2. Total concurrent port count	minimum 42 or More	
3. Hot-swap Module Bays	1 in front	
4. Module Types	4x SFP+ module to be with connectivity option	
5. Cable	cable, SFP+ to SFP+, IOGbE, Copper Twinax Direct Attach Cable, 5 Meter 4 Nos	
6. Stacking # units/speed	12/160 Gbps	
7. Switching Capacity	minimum of 630 Gbps or More	
8. Forwarding Capacity	Minimum of 450 Mpps or More	
9. Forwarding Mode	Store & Forward or Cut-through	
10. Latency	should be < 3000ns (Mode specific)	
11 . CPU Memory	minimum 2 GB or more	

13. Packet Buffer	minimum of 9 MB or More across switch	
14. os	IOS preferably CLI based	
15. 10/100/1000 OOB Mgmt Port	Yes, preferably in rear	
16. RJ45 console port with RS232 signaling	minimum 1	
17. USB (Type A) port for configuration	minimum 1	
18. DCB	Yes, DCBx, iscsi, TLV 2.2, ETS, PFC & QCN	
19. Layer 3 Protocols Supported	Static, RIP, OSPF, BGP, VRRP, PBR, ECMP, VRF-Lite	
20. IPv4/IPv6 Static Route Entries	minimum of 1,024/1,024	
21. IPv4/IPv6 Dynamic Route Entries	minimum of 8,160/4,096	
22. RIP Routing Interfaces supported	minimum of 512	
23. OSPF Routing Interfaces supported	minimum of 8160	
24. ECMP Next Hops per Route/Groups	minimum of 4 Hops/1,024 Groups	
25. VLAN Routing Interfaces	minimum of 128	
26. ARP Table	minimum of 6100	
27. NDP Entries	Minimum of 400	
Feature Details	Technical Specification	QUANTITY
1. Fixed 10Gig BaseT Ports	minimum of 24 or More	
2. Total concurrent port count	minimum 32 or More	
3. Hot-swap Module Bays	1 in front	
4. Module Types	4 x SFP+ module to be with connectivity option	
5. Cable	Cable, SFP+ to SFP+, 10GbE, Copper Twinax Direct Attach Cable, 5 Meter - 4 Nos	
6. Stacking # units/speed	12/160 Gbps	
7. Switching Capacity	minimum of 630 Gbps or More	

8. Forwarding Capacity	Minimum of 450 Mpps or More
9. Forwarding Mode	Store & Forward or Cut-through
10. Latency	should be < 3000ns (Mode specific)
11 . CPU Memory	minimum 2 GB or more
12. Flash Memory	minimum of 256 MB or More
13. Packet Buffer	minimum of 9 MB or More across switch
14. os	IOS preferably CLI based
15. 10/100/1000 OOB Mgmt Port	Yes, preferably in rear
16. RJ45 console port with RS232 signaling	minimum 1
17. USB (Type A) port for configuration	minimum 1
18. DCB	Yes, DCBx, iscsi, TLV 2.2, ETS, PFC & QCN
19. Layer 3 Protocols Supported	static, RIP, OSPF, BGP, VRRP, PBR, ECMP, VRF-Lite
20. IPv4/IPv6 Static Route Entries	minimum of 1,024/1,024
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22. RIP Routing Interfaces supported	minimum of 512
23. OSPF Routing Interfaces supported	minimum of 8160
24. ECMP Next Hops per Route/Groups	minimum of 4 Hops/1,024 Groups
25. VI-AN Routing Interfaces	minimum of 128
26. ARP Table	minimum of 6100
27. NDP Entries	Minimum of 400
28. ACLs	minimum of100
29. ACLs	MAC ,Time-controlled ACLs,IP Based
30. Max ACL Rules (System wide)	Minimum of 3072
31. Max Rules per ACL	Minimum of 1023
32. Max ACL Rules per IPv4	Minimum of 2,047 ingress/ 1,023 egress

32. Max ACL Rules per IPv4 Interface	Minimum of 2,047 ingress/ 1,023 egress	
33, Max ACL Rules per IPv6 Interface	Minimum of 1,021 ingress/512 egress	
34. MAC Address Storage	Minimum of 131072	
35. VLANs	Minimum of 4094	
36. Subnet Based VLANs	Minimum of 128	
37. Protocol based VLANs	Minimum of 128	
38. LAGS (Ports per group)	Static 128/Dynamic 144 (8)	
39. MLAG	Yes	
40. Jumbo Frame	Yes, MTU 9,216 MB	
41. QoS Priority Queues	minimum of 7 nos	
42. Remote Port Mirroring	minimum 4 session per node	
43. Port Mirroring	4 port TX or 2 ports TX & RX	
44. Features	USB Rapid Deployment, Bare Metal Provisioning ,SDN Ready, Dual Firmware Images, Tool-less racking w/Ready Rails, Fresh Air Compliant	
45. power supplies	Dual 80+ certified hotswap • Power Down on Unused Ports	
46. Max Watts	240	
47. Compliant	PCI	
48. Compatibility	The Give Switch Should be compatible with Blade servers of HPE, IBM and Dell Appropriate cables should be given for Connectivity.	
49. Warranty	3 Years Onsite warranty with 04 hours CTR	

TERMS AND CONDITIONS OF CONTRACT

1. Rates:

Rates shall be written in figure as well as in words (English).