

Corrigendum

RFP for Procurement of Switches and Storage for State Data Centre, Government of Odisha

RFP No- OCAC-NEGP-INFRA-0021-2024-25003

Sl. No	RFP Document Reference(s) & Section	Page No.	RFP clause as in tender	Revised Clause / Remark(s)
01	9.1.2 Architecture	28	The Bidder/OEM shall ensure the seamless installation and integration of the offered solution without disturbing the on-going operations of the existing equipment and applications.	Storage-based replication is not intended between SDC1 and SDC2. However, seamless installation and integration are required at the SAN-fabric level. The bidder should examine the existing fabric and provide the solution accordingly.
02	9.1.2 Architecture	29	Scalability: Plan for future growth by choosing solutions that can scale with increasing data demands. This might involve modular network designs and flexible connectivity options.	This will be discussed with the selected bidder.
03	19.5.1 SAN Storage	38	EXPANDABILITY: c) Offered storage array shall be scalable to four controllers without clustering/federation technology, and it shall be truly shared everything architecture so that all the existing drives shall be physically visible and mapped across all 4 controllers after the controller upgrade.	c) Offered storage array shall be supplied with four controllers from day 1 without clustering/federation technology and it shall be truly shared, everything architecture so that all the existing drives shall be physically visible and mapped across all 4 controllers.
04	19.5.1 SAN Storage	38	e) Offered storage array should have 99.99999% data availability guaranteed architecture and All Flash cloud native end-to-end NVMe array only. Shall be marketed / Publish as All NVMe array on the vendor website.	e) Offered storage array should have 99.99999% data availability guaranteed architecture and All Flash end-to-end NVMe array only. Shall be marketed / Publish as All NVMe array on the vendor website.
05	19.5.1 SAN Storage	38	Proposed storage must be offered with minimum 1PiB usable capacity using NVMe SSD Drives in RAID 6 excluding all overheads like RAID parity and file system. Vendor shall not use more than RAID-6 (10+2) while configuring the solution. Additional global hot spare drive/capacity of same drive capacity for every thirty drives should be configured.	Proposed storage must be offered with minimum 1PiB usable capacity using NVMe SSD Drives in RAID 6 excluding all overheads like RAID parity and file system. Vendor shall use not more than RAID-6 (14+2) while configuring the solution. Additional global hot spare drive/capacity of same drive capacity for every thirty drives should be configured.
06	19.5.1 SAN Storage	39	Storage solution should be supplied with minimum port configuration as follows: a) FC Ports: 8 x 32 Gb	Storage solution should be supplied with minimum port configuration as follows: a) FC Ports: 16 x 32 Gb

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07	19.5.1 SAN Storage	39	Offered storage array shall support inline data efficiency engine (Thin provisioning, Thin Re-Claim Deduplication & Compression) and shall be enabled by default. Vendor shall have flexibility to enable and disable the data efficiency engine at the time of Volume creation.	Offered storage array shall support inline data efficiency engine (Thin provisioning, Thin Re-Claim, Deduplication & Compression) and shall be enabled by default. Vendor shall have flexibility to enable and disable the data efficiency engine at the time of Volume creation. In the absence of Thin reclaim feature, Storage OEM to factor required proactive quarterly OEM services for thin-reclaimat OS and Virtualization level. Relevant Service part codes to be submitted.
08	19.5.1 SAN Storage	40	For effective cloud deployment offered storage should be supplied with thin provisioning to make the volume thin for an extended period for complete array supported raw capacity.	For effective on-prem/cloud deployment offered storage should be supplied with thin provisioning to make the volume thin for an extended period for a complete array supported raw capacity.
09	19.5.1 SAN Storage	41	VAAI Integration: c) Offered storage array shall be tightly integrated with VMware so that Eager zero disks layout can be used with thin provisioning and thin re-claim.	Clause has been removed.
10	19.5.1 SAN Storage	41	Cloud / On-Prem enabled Analytics engine shall have capability to provide following: a. Analytics engine shall have capability of proactive recommendation for arresting the issues / problems noticed at another install base of vendor after identifying the problematic signature. b. Providing extremely granular per-minute historical capacity and performance trend analysis by default, without the need to enable extra logging, install any appliances (physical or virtual), or install any software. c. Providing overall saturation level of the array while combining while analysing various parameters like IOPS, MB/sec, Block size etc. Providing the status of at-least top 5 volumes where latency is extremely high.	Cloud / On-Prem enabled Analytics engine shall have capability to provide following: a. Analytics engine shall have capability of proactive recommendation for arresting the issues / problems and proactive creation of support tickets. b. Providing granular historical capacity and performance trend analysis. c. Providing overall saturation level of the array while combining while analysing various parameters like IOPS, MB/sec, Block size etc. Providing the status of at-least top volumes where latency is extremely high.
11	19.5.1 SAN Storage	42	New Clause added	During Five Years on-site comprehensive OEM Warranty OEM should perform Storage OS, patches, Firmware and related updates proactively. OEM should inform the client about the updates released from time to time.

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12	19.5.2 SAN Switch	42	The offered SAN switch shall be configured with minimum of 24 x 32Gbps FC Ports scalable to 48 ports, 15M LC-LC cables needs to be quoted for all active ports.	The offered SAN switch shall be configured with minimum of 48 x 32Gbps active FC Ports, 15M LC-LC cables need to be quoted for all active ports.
13	19.5.2 SAN Switch	43	OEM-Ranking: The proposed Storage OEM must be rated as Leader's in the latest magic quadrants for Primary Storage by Gartner.	Clause has been removed.
14	19.5.3 Network Switch- Type -1	43	The switch operating system should be database-driven where software processes communicate with the database rather than each other, ensuring near real-time state and resiliency.	Clause has been removed.
15	19.5.3 Network Switch- Type -1	44	The switch should support switch virtualization feature for combining dual switches into single logical unit with active-active control planes	The switch should support switch virtualization or VPC or equivalent feature for combining dual switches into single logical unit/fabric with active-active control planes.
16	19.5.3 Network Switch- Type -1	44	The switch should support minimum 90K IPv4 routes/30K IPv6 Routes and 8K IPv4/IPv6 Multicast Routes.	The switch should support minimum 90K IPv4 routes/30K IPv6 Routes and 7K IPv4/IPv6 Multicast Routes.
17	19.5.3 Network Switch- Type -1	45	Ethernet Ring Protection Switching (ERPS)	Clause has been removed.
18	19.5.3 Network Switch- Type -1	47	The switch should have safety/emissions certifications including UL/CUL 62368, EN 55024/55032, VCCI Class A, IEC 62368-1	The switch should have safety/emissions certifications including UL/CUL 62368, VCCI Class A, IEC 62368-1
19	19.5.4 Network Switch- Type -2	48	The switch operating system should be database-driven where software processes communicate with the database rather than each other, ensuring near real-time state and resiliency.	Clause has been removed.
20	19.5.4 Network Switch- Type -2	48	The switch OS should support programmability through REST APIs, Python scripting.	The switch OS should support programmability through REST-APIs/RESTCONF, Python scripting.
21	19.5.4 Network Switch- Type -2	49	The switch should have at least 48 ports of 10G/25GbE (SFP+/SFP28) ports and 8x40/100G ports.	The switch should have at least 48 ports of 10G/25GbE (SFP+/SFP28) ports and 6x40/100G ports.
22	19.5.4 Network Switch- Type -2	49	The proposed switch should have switched performance of 4 Tbps. Should be non-blocking capacity) including the services such as: Switching, IP Routing (Static/Dynamic), IP Forwarding, Policy Based Routing, QoS, ACL, and Other IP Services including IPv6 routing.	The proposed switch should have switched performance of 3.6 Tbps. Should be non-blocking capacity) including the services such as: Switching, IP Routing (Static/Dynamic), IP Forwarding, Policy Based Routing, QoS, ACL, and Other IP Services including IPv6 routing.

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23	19.5.4 Network Switch- Type -2	49	The switch should support switch virtualization feature for combining dual switches into single logical unit with active-active control planes and providing Multi-chassis Link aggregation (MC-LAG) for uplink/downlink connectivity.	The switch should support switch virtualization or VPC or equivalent feature for combining dual switches into single logical unit/fabric with active-active control planes.
24	19.5.4 Network Switch- Type -2	49	The switch should support minimum 90K IPv4 routes/30K IPv6 Routes and 8K IPv4/IPv6 Multicast Routes.	The switch should support minimum 90K IPv4 routes/30K IPv6 Routes and 7K IPv4/IPv6 Multicast Routes.
25	19.5.4 Network Switch- Type -2	50	Ethernet Ring Protection Switching (ERPS)	Clause has been removed.
26	19.5.4 Network Switch- Type -2	52	The switch should have safety/emissions certifications including UL/CUL 62368, EN 55024/55032, VCCI Class A, IEC 62368-1.	The switch should have safety/emissions certifications including UL/CUL 62368, VCCI Class A, IEC 62368-1

Revised RFP Schedule

Sl. No.	Items	Date & Time
1	Last date and time for Submission of Bid through https://tendersodisha.gov.in/nicgep/app	06-03-2025 by 12:00 Noon
2	Opening of Pre-Qualification (PQ)- Cum- Technical Bid	06-03-2025 by 12:30 PM
3	Opening of Commercial Bids	To be Intimated later