

بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ



ދިވެހިރާއްޖޭގެ
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بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ



قاضي صاحب
ڊاڪٽر، برقرار بموت

انسٽرڪشن رٿا ڏسڻ لاءِ ضروري ٿيندڙ

ڏسڻ لاءِ ضروري ٿيندڙ ڪوٺڻو:

- ٽي ڏوڙ رٿا: ٽي ڏوڙ (ٽي ڏوڙ رٿا ڏسڻ لاءِ)
- ٽي ڏوڙ ڏيکارڻ: ٽي ڏوڙ (ٽي ڏوڙ ڏيکارڻ ٽي ڏوڙ رٿا ڏسڻ لاءِ)
- ٽي ڏوڙ (ٽي ڏوڙ ڏيکارڻ) ڏيکارڻ: ٽي ڏوڙ
- انسٽرڪشن رٿا ڏيکارڻ ٽي ڏوڙ: ٽي ڏوڙ (ٽي ڏوڙ ڏيکارڻ ٽي ڏوڙ رٿا ڏسڻ لاءِ)

انسٽرڪشن رٿا ڏسڻ لاءِ ضروري ٿيندڙ ڪوٺڻو:

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ڊيگريشن نمبر:

ٽي ڏوڙ:

ٽي ڏوڙ نمبر:

ٽي ڏوڙ ڏيکارڻ:

ڊيگريشن نمبر ٽي ڏوڙ نمبر:

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ڪوٺڻو:

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ڊيگريشن نمبر:

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Qty	Description	RATE (MVR)	TOTAL (MVR)
	TOTAL		



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سٹوریج ایریا نیٹ ورک: ڈیجیٹل لائبریری سٹوریج ایریا (SAN) کی سہولتیں
 سٹوریج ایریا نیٹ ورک کی سہولتیں

سٹوریج ایریا نیٹ ورک (SAN) کی سہولتیں

مہدی ایف سہولتیں (SAN) کی سہولتیں سٹوریج ایریا نیٹ ورک کی سہولتیں۔
 سٹوریج ایریا نیٹ ورک (SAN) کی سہولتیں سٹوریج ایریا نیٹ ورک کی سہولتیں۔
 "سٹوریج ایریا نیٹ ورک" کی سہولتیں سٹوریج ایریا نیٹ ورک کی سہولتیں۔

Storage Area Network SAN (68 TiB Capacity) Qty -01

S	Item Name	Detail Required Specification	Bidder response
1	Brand	Internationally Reputed brand (To be mentioned by the Bidder) and the OEM of the proposed brand must be in the Leaders Quadrant in the latest Gartner's Magic Quadrant for primary storage.	
2	Model	To be mentioned by the bidder	
3	Country of origin	To be mentioned by the bidder	
4	Manufacturing Country	To be mentioned by the bidder	
5	System architecture	Offered Storage array must be a Hybrid Flash Array.	
6		Offered Storage array should have Actual configuration of SAN-NAS integrated storage with FC SAN, IP SAN, and NAS protocols (including NFS and CIFS).	
7		Offered Storage array should be 2 U disk and controller integrated architecture, providing ≥ 12 disk slots	
8		Proposed array should be a scale-up and scale-out architecture and controller enclosures are interconnected via PCIe or RDMA.	
9		Offered Storage Array should be configured with minimum Two Controllers and support scale out to Eight controllers	
10	Cache	Cache of each controller in the system should be 32 GB (excluding performance acceleration modules such as Flash Cache, PAM, and SSD Cache), supporting power-off protection.	
11	Disk Scalability	Offered Storage Array should support up to minimum 500 disks.	
12	Capacity	The single storage array shall be offered with 68TiB usable capacity after RAID5 without Deduplication and Compression. At least 5 TiB should be provided from SSD disks SSD and NL SAS disk are required	
13	Raid	The Storage array should support Controller based RAID Levels: RAID 1, RAID 3, RAID 5, RAID 6, RAID 10, and RAID 50	
14	Front End Ports	The Storage Array should be provided with minimum 4 x 10 Gbps and 8 x 1 Gbps iSCSI interface with required transceiver.	



S	Item Name	Detail Required Specification	Bidder response
15	Back End Connectivity	The Storage Array should be provided the back-end disk channel bandwidth 200 Gbit/s or higher	
16	Reliability	Offered Storage should Support hot-swappable disks, power modules, and I/O modules.	
17	Deduplication and Compression	Offered storage should Support block deduplication and compression to improve space utilization.	
18	Quality of Service Control	Offered storage should enable platforms to better respond to requests for multiple services, ensuring proper resource allocation, especially sufficient resources for mission-critical services. Supporting priority-based QoS control is recommended.	
19	Snapshot	Offered storage should support Data snapshots, Where the Snapshots at a certain time can be recovered without losing snapshots created at other time points.	
20		Offered storage should provide high-density snapshots, which the system can support the second-level snapshot, achieving continuous data protection	
21	Clone	Offered storage should provide the clone function, which creates a physical copy for the snapshot or source LUN.	
22	Remote replication	Offered storage should support the asynchronous data replication function to replicate data from the DR site to backup site.	
23	Mirroring	Should support Data volume mirroring function.	
24	Thin provisioning	Should support thin provisioning that enables on-demand storage resource allocation	
25	Tier	Should support Automatic storage tiering	
26	SSD Cache	Should support SSD Cache which improves the response speed to hotspot data.	
27	Cache partitioning	Should support Cache partitioning function, ensuring sufficient resources for mission-critical services.	
28	NAS basic software package	NAS functions should include NFS, CIFS, NDMP, multi-tenancy, and directory quota.	
29	NAS operating system	Proposed storage should Adopt to professional storage operating systems to provide file system services. The server + Windows storage server operating system method is not used to provide file system services.	
30	Global namespace	Should support global namespace.	
31	WORM	Should support WORM function where data that has been written cannot be modified or deleted within the specific retention period but can be read multiple times, ensuring the security of mission-critical service files and complying with laws and regulations.	
32	Management	Offered storage should support Non-Disruptive Upgrade. During an upgrade, the storage no need requires controller restart and services need to be switched over between controllers to ensure service continuity.	
33	Design and Implementation Scope	Respective OEM to also ensure that the final deployment is done basis the OEM specified and validated design standards and best practices	
34	Design and Implementation Scope	Bidder should submit BOM of proposed device including the details' part numbers and manufacturer's warranty part number	



S	Item Name	Detail Required Specification	Bidder response
35		Bidder should submit the required performance document and compliance reference document for the proposed device.	
36	Warranty	Mentioning Manufacturer's warranty should be quoted, minimum 3 (Three) years warranty should be provided for this unit from the date of commissioning	
37	Support	Onsight support should be given within the warranty period	
38	Installation, testing and commissioning	Installation, testing and commissioning with necessary accessories	
39	Migration	Vender must migrate the data from old SAN to the new SAN	
40	Authorized Dealer	Vendor must be an authorized partner for the solution they propose (Manufacturer Authorization Letter Required)	
41	Training	Training for 3 IT staff	
42	Documentation	Configuration document and diagrams have to be given after completion	
43	Labelling	Cables and equipment have to be labelled	
44	License	Must include if any license need (renewal price of license must be mention is there is any license)	

procurement@familycourt.gov.mv

