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Technical Specifications for Storage facility with a capacity of 500 TB or above

Section - A: Storage facility with a capacity of 500 TB or above.

It should have the following components:

1) Hardware Details:-

Intel Xeon processor (10 cores, 2.4G)
128GB DDR4 ECC memory
1+1 Redundant power supplies
4U form factor

1.1) STORAGE CAPACITY:-

MAIN BOX & JBOD:- RAW Capacity = 744TB
21 x 12000GB SATA ENT HDD = 252TB
41 x 12000GB SATA ENT HDD = 492TB

1.2) MAIN BOX & JBOD:-

Usable Capacity RAID 60(8D + 2P) + 1 Hot-Spare = 517TB
2 SETS RAID60 (8D + 2P) = 172TB
4 SETS RAID60 (8D + 2P) = 345TB

2) Technical Specifications:-

- 2.1) Should support up to 44 hot-swap SAS/SATA LFF/SFF HDDs/SSDs
- 2.2) Should be populated with at least 41 x 12000GB, 7200RPM SATA ENT, hot-plug HDDs
- 2.3) Should have sufficient (N+1) Redundant power supplies (2 x 1280W, 80Plus Platinum)
- 2.4) 4U form factor [437.0 x 669.0 x 178.3 mm (W x D x H)]
- 2.5) Interconnecting cable bundled

3) Following Features are preferred:

- 3.1) Single-Controller Unified Storage (File & block)
- 3.2) Should support both Block (iSCSI, FCP, SRP) & File (SMB, NFS, FTP, AFP) protocols
- 3.3) Host Interface: 2 10G (SFP+) Ethernet ports, 1 x Management port
- 3.4) Supports RAID 0,1,0+1,5,6,50 & 60
- 3.5) Supports up to 24 hot-swap SAS/SATA LFF/SFF HDDs/SSDs in same enclosure and up to 204 HDDs/SSDs using add-on JBODs
- 3.6) Populated with 21 x 12TB, SATA ENT 7200 RPM, hot-plug HDDs
- 3.7) Supports SSD Caching (Optional upgrade)
- 3.8) Built-in Snapshot with rollback
- 3.9) WebUI for setup and configuration

Section - B :- UPS

- Please quote for appropriate UPS and batteries necessary for 60 minutes backup at full load. Please specify calculations of power consumption.

4) Other terms and conditions:

- 4.1) Dealer should provide original equipment manufacturer (OEM) certificate.
- 4.2) Kindly provide list of purchase orders and experience of supplying and maintaining similar products at other places.
- 4.3) Demonstrate compatibility of all the components.
- 4.4) Installation and commissioning of the storage facility including relevant operating system and the necessary software packages must be ensured by the vendor in consultation with technical staff of the laboratory.
- 4.5) On-site warranty of 3 years must be provided for all components.