PR No.1000018276   **RFx No. 6100000 767**

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:

I) **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.