

Annexure - I

Technical specification of Network Attached Storage/Server with HDD/SSD	
CPU	Intel Xeon Silver 4410Y 2G, 12C/24T, 16GT/s, 30M Cache or better
Memory	At least 64GB, 5600MT/s and expandable up to 1.5TB
Boot drive	minimum 450GB (in RAID 1)
Bays	Minimum 24x3.5-inch SAS/SATA, 4 x 2.5-inch NVM; The number of drives with each drive capacity should be clearly mentioned
Storage volume	should be scalable to a minimum of 616TB without adding additional expansion units
SSD	At least 26.88TB Read Intensive (23TB Usable) populated
HDD	At least 128TB, 7200 RPM, 512e (112TB Usable) populated
Network connectivity	Dual Port 10GBaseT OCP 3.0 or better
Form factor	rack-mountable (not exceeding 2U)
Expansion / Slots	Minimum 4x16 PCIe Gen4, USB 2.0, USB 3.0, VGA,
Power Supply	redundant in nature, and it should not exceed 1400W using 230-240V AC
System Features	<p>The configured unit should have below features</p> <p>User management: Tools for managing users, groups, and access controls through Access Control Lists (ACLs)</p> <p>SSH access: Can be controlled remotely via SSH for advanced users</p> <p>Web interface: A multilingual, web-based graphical user interface for system administration.</p> <p>Extensible via plugins: Functionality can be expanded with plugins for services like Docker, antivirus, and backup clients.</p> <p>File systems: Supports a wide range of file systems, including EXT3/4, XFS, JFS, Btrfs, and NTFS.</p> <p>Volume management: Manages storage volumes and file systems.</p> <p>Snapshots: Supports snapshotting of shared folders</p> <p>File sharing: Supports protocols like SMB/CIFS, NFS, FTP, and Rsync.</p> <p>Link aggregation: Allows multiple network interfaces to be bonded together for higher throughput and redundancy.</p> <p>IPv6 and Firewall: Includes support for IPv6 and a built-in firewall for flexible access control.</p> <p>Additional features: email notifications, etc.</p>
Management control	The system should have a dedicated management port and be accessible via the web for remote management, diagnosis, firmware upgrades, health monitoring, and alerts.
Supported RAID Type	RAID 0, RAID 1, RAID 5, RAID 6, RAID 10 Systems should have an internal hardware RAID Controller with a minimum of 8GB Cache with a battery backup unit. It should support both hardware and software RAID.
OS	Linux/Windows/Open Source provided by OEM

System Security Features	Cryptographically signed firmware, Secure Boot and Secure Erase, Silicon Root of Trust, TPM 2.0 FIPS
Accessories	All other necessary hardware (like monitor, keyboard, mouse, etc) and software that are needed for the smooth operation of the machine
Warranty	Minimum of 5 years on-site warranty with advance replacement policy