

Response to RFP Queries RFP No: NSIL/RFP/VCS-MCS/ 2024/01 dated 20 April 2024 for Supply, Installation & Commissioning of IT infrastructure and Software development for establishing Vessel Communication and Support System (VCS) for Monitoring, Control and Surveillance (MCS)

SN	Page No. 125- External Storage	Description as per tender	Compliance	Recommendations	NSIL Clarification/Response
1	Storage Capacity	2U form factor, Minimum 500TB Usable storage space using min. 2.4TB SAS 10K RPM HDD in RAID 6. Min. one Global Hot Spare per 20 disks. Scalable to min.250 drives without upgrading/changing the controllers. No. and size of drives should support min. usable space.	2U form factor, Minimum 500TB Usable storage space using min. 2.4TB SAS 10K RPM HDD in RAID 6. Min. one Global Hot Spare per 24 disks. Scalable to min.240 drives without upgrading/changing the controllers. No. and size of drives should support min. usable space. If vendor doesn't quote entire capacity in single storage, they can quote two storages with 250TB usable capacity each.	Please change the HS policy to 24:1. As these are entry level storage specs, there is drive limitation so that we can quote two storages where capacity gets distributed among them.	RFP terms prevail.
2	Cache	Min. 32 GB memory spread across both controllers. Minimum 960GB SSD read cache	Min. 24GB memory spread across both controllers. Minimum 960GB SSD read cache	As these are entry level storages, they have memory limitation. As we are quoting two storages. Total memory across all the controllers is 48GB. (250TB for 24GB memory).	RFP terms prevail.
3	Storage Software Licenses	All the following licenses should be provided for entire supported storage capacity of the proposed Array. 1. Thin Provisioning 2. ADAPT- Distributed RAID Groups 3. SSD Read Cache 4. IP Remote Replication 5. Snapshots 6. 3 level Tiering 7. Volume Copy	All the following licenses should be provided for entire supported storage capacity of the proposed Array. 1. Thin Provisioning 2. SSD Read Cache 3. IP Remote Replication 6. Snapshots 7. 3 level Tiering 8. Volume Copy	ADAPT- Distributed RAID Groups - Specific to single OEM	ADAPT or equivalent should be supported.