

Pre Bid Queries for "SITC of 150 TB Storage(All flash Unified) at TPCODL (TPCODL /P&S/2025-26/1000007753)				
Sl. No.	Detailed Reference to Tender Document. Please specify Document No / Clause No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL Response
8	Unified Storage	1. The All flash Storage system should be unified (Block, File and Object) from day one.	1. The All flash Storage system should be Enterprise SAN storage. As per the host interface, the storage requires FC and iSCSI connectivity, which are block or SAN protocols	Tender Clause Stands.
11		4. At least 128 GB cache per controller.	4. At least 256 GB cache per controller. Higher cache will provide better performance	Tender Clause Stands. Higher configuration is acceptable.
13	Disk Type	1. Flash Drives - In range of 6 TB to 16 TB for faster and parallel data access.	1. NVMe Drives - In range of 6 TB to 16 TB for faster and parallel data access. NVMe is the latest technology	Tender Clause stands. Flash drives of any technology is acceptable.
18	IOPS Requirement	4. The amount of read and write data in cache shall be dynamically managed by the cache control algorithms to provide the optimum amount of read and write cache depending on the load conditions. Cache shall be available as write or read cache dynamically as per application requirements.The cache shall be duplexed for write data. The write cache shall be battery backed up to enable automatic destaging of cache to the disks in case of power failure.	4. The amount of read and write data in cache shall be dynamically managed by the cache control algorithms to provide the optimum amount of read and write cache depending on the load conditions. Cache shall be available as write or read cache dynamically as per application requirements.Write cache shall be protected in case of power failure Cache failure protection varies from OEM to OEM	This clause is to be read as follows. <i>"The amount of read and write data in cache shall be dynamically managed by the cache control algorithms to provide the optimum amount of read and write cache depending on the load conditions. Cache shall be available as write or read cache dynamically as per application requirements. The write cache shall be protected in case of power failure and on fresh power on, such data should be applied without any loss of integrity."</i>
19		5. In case of power failure, clock should be maintained by internal battery backup of Storage solution.	Remove this clause	This clause is to be read as follows. <i>"Correct and appropriate UTC DateTime/ Clock should be maintained by the storage all the time during data handling, for audit trail and even while writing logs with timestamp during booting & shutdown."</i>
26	NAS Details	1. Must support various protocols like SMB/CIFS, NFS, and others for seamless access across different operating systems.	Offered solution supports SMB/CIFS, NFS and others for seamless acroos different operating system. In case, vendor doesn't support natively they can offer File gateway/controller to meet this requirement	Tender Clause stands.
32	Storage Features	4. Storage shall be able to move data seamlessly within the storage box to different RAID groups without stopping the host applications.	Remove this clause Not applicable for single RAID storage arrays and the requirement is RAID 6 only	This Clause is to be read as follows. <i>"Storage shall be able to move data seamlessly within the storage box to different storage pools with same RAID groups without stopping the host applications."</i>
38	Host Connectivity	1. For ease of management, storage solution should be able to support Unified integrated offering with single management tool having all mentioned protocols FC, iSCSI, CIFS, NFS, S3 etc from day one.	1. For ease of management, storage solution should be able to support management console for both block and file workloads.	Tender Clause stands.
43	Local & Remote Data Replication	3. License for Local & remote replication capabilities to be included with solution for heterogeneous storage system from day one.	3. License for Local & remote replication capabilities to be included along with solution from day one.	This Clause is to be read as follows. <i>"License for Local & remote replication capabilities to be included with solution for homogeneous & heterogeneous storage system from day one either natively or using third party solution with appropriate license to be proposed."</i>
57	Remote Management	1. Storage(SAN, NAS and Object) must have feature to manage remotely from a single console via web and command line.	1. Storage must have feature to manage remotely from a single console via web and command line.	Tender Clause stands.
58	Guest Operating System (OS) and Data Support	1. Storage system must support following guest operating system Windows, Linux, Ubuntu, AIX, Suse Linux, Oracle Linux, HP-UX, macOS and their latest versions.	1. Storage system must support following guest operating system Windows, Linux, Ubuntu, AIX, Suse Linux, Oracle Linux, HP-UX and their latest versions.	This clause is to be read as follows. <i>"Storage system must support following guest operating system Windows, Linux, Ubuntu, AIX, Suse Linux, Oracle Linux, HP-UX and their latest versions."</i>

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62	Fault Detection & Corrective Action	2. Mirrored data cache with battery backup and de-stage to flash.	2. Write cache shall be mirrored and can be protected in case of power failure. Write cache protection varies from OEM to OEM	This clause is to be read as follows. <i>"The write cache shall be protected in case of power failure and on fresh power on, such data should be applied without any loss of integrity."</i>
69	Security and Encryption	2. Storage should support Integration with third-party anti-virus / anti-malware software.	2. Storage should support native ransomware detection for block data and this feature built within the storage operating system This will provide cyber resiliency in case of ransomware attacks.	This clause is to be read as follows. <i>"Storage should support Integration with Native/ third-party anti- virus / anti-malware/ ransomware detection and protection software."</i>
71		4. System should support strong configurable encryption mechanism for data at rest and data at transit. This is crucial for ensuring that data remains confidential and	4. System should support strong configurable encryption mechanism for data at rest . This is crucial for ensuring that data remains confidential and integral while at rest Data in transit incline towards single OEM.	This clause is to be read as follows. <i>"System should support strong Native/ configurable encryption mechanism for data at rest and data at transit. This is crucial for ensuring that data remains confidential and integral while at rest. "</i>
74	Cloud based Feature	1. Seamless integration of storage with public (AWS, Azure, Google Cloud Platform and all leading cloud platform) and hybrid cloud environments.	Offered storage shall support replication to public cloud platforms like AWS, Azure etc.. Incline towards single OEM	This clause is to be read as follows. <i>"Seamless integration of storage with public (AWS, Azure, Google Cloud Platform and all leading cloud platform)"</i>
7	Clause 7.4 (Tender Doc) read with Clause 6.0 (GCC)	Payment terms - payment within 60 days (45 days for MSME) from submission of error-free invoice and milestone-based payment terms as per GCC	Clause 7.4 specifies the payment timeline of 45 days applicable for MSME, whereas Clause 6.0 provides detailed milestone-based payment terms. Bidder, being an MSME, requests clarification on which clause shall be applicable for this tender. Further, bidder requests confirmation that wherever applicable, payment to MSME shall be released within 45 days from the date of certification of error-free invoices, in line with Clause 7.4.	Payment terms - Payment within 60 days (45 days for MSME) from submission of error-free invoice and certified by EIC/Site in charge.
1.7	Clause 1.7 - Qualification Criteria (Tender Doc)	Minimum average annual turnover of ₹4 Crore in last three financial years	Deviation requested. Bidder requests consideration of minimum average annual turnover of ₹3 Crore in the last three financial years. The bidder possesses adequate technical capability, relevant experience, and financial strength to successfully execute the scope of work.	Tender Clause will remain unchanged. However as per Annexure-VII(a) Qualification Requirement of Financial Turnover for MSME registered in the State of Odisha shall be reduced to 20% of the existing criteria.