<u>Corrigendum-1 dated 16.03.2024</u>

Bid for Procurement of Object storage with 5 PB usable Space in a three-site configuration (i.e., GSDC Gandhinagar, Near-DR Vadodara, Far-DR Bhubaneshwar) on Behalf of Department of Science and Technology. (GeM bid no. GEM/2023/B/3972430 dated 20.09.2023)

Please find the pre-BID queries response and Corrigendum-1 dated 16.03.2024.

For more details, visit www.gil.gujarat.gov.in

Pre-bid Queries Response

Bid for Procurement of Object storage with 5 PB usable Space in a three-site configuration (i.e., GSDC Gandhinagar, Near-DR Vadodara, Far-DR Bhubaneshwar) on Behalf of Department of Science and Technology, Gandhinagar (GeM bid no. GEM/2023/B/3972430 dated 20.09.2023)

Sr. No.	Tender Reference		Query / Clarification / Suggestions from the Bidder	Tenderer Response
	Page No. / Section No. / Clause No.	Tender Description		
1	Page-6, Point-8- Minimum Techical Specification	The system must support encrypting data at rest	The system must support encrypting data at rest and data in flight during replication/distribution to other locations through nativaly or third party solution. data in flight during replication/distribution to other locations. ---- it will help to protection the data is end to end (Data at rest and in flight). Encryption at Rest refers to the encryption applied to the stored data. Encryption in Flight refers to encrypting data that is transferred between two nodes (distributed geographically) of the network. End to End Data encryption (data at rest and data in flight) helps prevent unauthorized users from reading sensitive data on a across location and associated data storage systems	As per RFP
2	Page-7, Point-14- Minimum Techical Specification	The storage system should have support to provide protection against ransomware or able to integrate with third party ransomware protection solution.	The storage system should have support to provide protection against ransomware attacks. Ransomware protection should be native as 3rd party integration wont be possible Native Ransomware protection preserves the integrity of your data and provides usable copies of lost data – to ensure you are always recoverable from attack.	As per RFP
3	Addon Specification	Add-on Suggestion based on Large Data Centre Infrastructure & suitable for Gujarat SDC	The solution enables having a global file system where the data is available to from any edge device based on access permissions. Global File System, any number of users can edit, collaborate, and share files as if they were working under one roof. collaboration helps in working on single project for multi users hence, they don't have to share files with each other and keep a tab on the updates shared by their teammates. for example a single file can have multiple updates from consultant, developers, operational team etc.., hence increasing their productivity	As per RFP
4	Addon Specification	Add-on Suggestion based on Large Data Centre Infrastructure & suitable for Gujarat SDC	The solution must have Source-Based Deduplication from the end user's workstation/device, automated & bandwidth-optimized backup with block-level deduplication. This points are the necessity for the file syn/share and should be part of the RFP like deduplication /compression will help to reduce space, bandwidth optimization will help to reduce bandwidth utlization and better data sync. Source side deduplication helps in attaining capacity optimization of storage which is further enhanced by WAN optimization, for eg, if user sends 10MB file which is deduped to around 2MB and if further compresses to 1MB due to WAN optimization it saves huge capacity per user and if transaction like this happening for tens and thousands of users it saves huge storage cost.	As per RFP

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5	Addon Specification	Add-on Suggestion based on Large Data Centre Infrastructure & suitable for Gujarat SDC	The solution should support Endpoint Backup and File Sync & Share capabilities from the same software agent. The solution allow back up of not only files but system drives as well so that in case of people leaving organization access to their data is maintained for any purpose like litigation	As per RFP
6	Addon Specification	Add-on Suggestion based on Large Data Centre Infrastructure & suitable for Gujarat SDC	The solution supports Remote Wipe, Remote Secure Shred of the mobile phone. Remote wipe is a security feature that allows a IT administrator to send a command that remotely deletes data from a computing device if computing device is lost Remote wipe will help prevents data loss in case of theft or stolen company assets , admin can initiate instructions to remote wipe the data from the devices	As per RFP
7	Warranty Support: Pt. No. 1.11, Page 5	Warranty should not become void, if DST/GIL buys, any other supplemental hardware from a third party and installs it within these machines under intimation to the bidder. However, the warranty will not apply to such supplemental hardware items installed.	Please remove this clause. The user must not add/ replace-with any non-OEM hardware within the supplied machines. Third party items can be used outside of the machines in conjuction with the supplied solution. SLA, performance and warranty parameters may get affected/ void if it is found that the non-compliance of SLA/ performance/ warranty is caused by the third-party hardware/ components.	As per RFP
8	Warranty Support: Pt. No. 1.18, Page 5	After completion of 5 years' warranty/ CAMC period, if required, DST/GIL may extend the warranty/CAMC support for further period of 2 years (6th year and 7th year) on the derived rates of average cost of 5 years CAMC cost quoted. Bidder is required to provide the undertaking for the same mentioning that they will provide 6th year and 7th year warranty/ CAMC support.	Please remove the portion of 2 years additional support after 5 years (6th year and 7th year). Technology is changing rapidly. With each generation of new hardware new features are introduced and older generation of harware becomes obsolete. It becomes very difficult to get spare parts for older machines after a period of 5 years. Hence requesting to keep the support period limited to 5 Years. After 5 years, AMC contracts can be decided based on spare parts availability.	As per RFP
9	Minimum Technical specifications: Pt. No. 1, Page 6	Array/Appliance with 5PB usable Space in a three-site configuration i.e., GSDC Gandhinagar, Near DR- Vadodara, Far-DR Bhubaneshwar distributed geographically to provide 2 PB usable at GSDC, 1PB usable at Near-DR and 2PB usable at Far-DR. (Usable space means amount of storage space that will be available for storage after all system overheads are accounted for including but not limited to data protection, metadata, space required for objects pending garbage collection, etc.)	Is Data ingestion and access going to happen from all 3 sites? Are Far-DR and Near-DR going to be passive sites, i.e. only primary site at GSDC is going to be the active site and DR sites will be for replication and Disater recovery situations only?	Data ingenstion will happen from one site at a time.

Pre-bid Queries Response

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Sr. No.	Tender Reference		Query / Clarification / Suggestions from the Bidder	Tenderer Response
	Page No. / Section No. / Clause No.	Tender Description		
10	Minimum Technical specifications: Pt. No. 25, Page 8	Garbage collection process must be dynamically tunable while meeting throughput requirements without impacting GET/ PUT latency.	Please remove 'Dynamically tunable' and add 'automatic' to change the caluse as below: "Garbage collection process should be automatic while meeting throughput requirements without impacting GET/ PUT latency." Automatic garbage collection reduces manual intervention and policy overheads. Most object storage solution are intelligent to perfom the back-end activities at a timeframe when the load is minimal.	Garbage collection process must be dynamically tunable **or automatic** while meeting throughput requirements without impacting GET/ PUT latency.
11	Implementation Timelines & Penalties: Page 10	Installation, commissioning & integration (T2=T1+30) Final Acceptance Testing (T3=T2+15 Days) Training (15 Days from T3)	Please change the timeline to T2=T1+60 This is going to be a custom and highly specialized deployment. The implementation schedule may get delayed depending on ongoing requirements on the ground.	As per RFP
12	Price Bid Schedule: Page 14	Please change the Price Schedule as 3 Years upfront with Comprehensive warranty and OEM Support for both hardware and Software. 4th and 5th Year prices should be submitted separately.	All IBM Cloud Object Storage Hardware includes 3 years warranty and Support by default. Hence, it won't be possible to share commercial for one year only.	As per RFP
13	2 / /3	2. The objective of this RFP to deploy and implement Scalable Object-based Storage Solution of 5 Peta Byte (PB) Usable capacity which needs to be stretched across three sites i.e., GSDC Gandhinagar, Near DR- Vadodara, Far-DR Bhubaneshwar and an Enterprise file sync and share software (native or integrated with third-party).	Please clarify the following 1) The Storage has to be configured in active active setup across the 3 DC. 2) Single Cluster need to streched across three sites for data distributions	As per RFP
14	10 / 4	The installation, implementation, commissioning, and migration shall be carried out by the OEM.	Change to : The installation, implementation, commissioning, and migration shall be carried out by the Bidder / OEM	As per RFP
15	1.20 / 5	Warranty Support: 1.20 - Design, implementation should be done by OEM	Change to : Design, implementation should be done by Bidder / OEM	As per RFP
16	1 / 6	Proposed Object Storage Make & Model: 1. Array/Appliance with 5PB usable Space in a threesite configuration i.e., GSDC Gandhinagar, Near DR- Vadodara, Far-DR Bhubaneshwar distributed geographically to provide 2 PB usable at GSDC, 1PB usable at Near-DR and 2PB usable at Far-DR. (Usable space means amount of storage space that will be available for storage after all system overheads are accounted for including but not limited to data protection, metadata, space required for objects pending garbage collection, etc.)	Please clarify the following 1) The Storage has to be configured in active active setup across the 3 DC. 2) The network bandwidth & round trip latency between sites. 3) DC data to be replicated in NDR and FDR, if yes please share actual data size and replicated Data size	At any point of time, one storage should have data ingestion. Details will be shared with successful bidder.
17	2 / 6	2. The object storage cluster shall be scalable to minimum 50 PB in a single cluster/ namespace by adding drives and nodes.	Please clarify if single cluster will be distributed across three sites or it will be independent cluster in each location	As per RFP

Pre-bid Queries Response

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Sr. No.	Tender Reference		Query / Clarification / Suggestions from the Bidder	Tenderer Response
	Page No. / Section No. / Clause No.	Tender Description		
18	11 / 6	11. The system must provide System audit trail	Please clarify if Audit trail is needed for Storage management or the Data in use	As per RFP
19	15 / 7	15. All devices should be IPv6 implementation ready from day 1	The Storage supports IPv6 network for application and front end network connectivity. However the backend network is on IPv4 for intra cluster communication. The storage would be meeting the required objective. **Please confirm that this would be accepted.**	As per RFP
20	16 / 7	16. All the required or necessary licenses must be perpetual and should be provided for the entire offered capacity. This should include licenses for Management and monitoring module and all other features of the object storage.	Most SW vendors are moving to a subscription model as this is the trend of the industry. Please clarify if we propose subscription licenses would this be acceptable.	As per RFP
21	20 / 7	20. Data Protection: All Data should be available even if one site failed and multiple disks at a site are failed	1. Please clarify if single DC data has to be replicated to other two sites 2. Please specify how many disks failures to be considered.	As per RFP
22	22 / 7	Must provide access for a variety of operating systems (UNIX, Mac, Linux, and Windows latest and legacy versions)	Obect storage and REST API, S3 directly communicate with the Application. Any OS supporting AWS CLI, S3FS etc can also mount the bucket. There is no certification for S3 / REST API on the OS mentioned. Please clarify the use case and Intent of this clause as this is relevant to SAN/NAS and not object storage.	As per RFP
23	23 / 7	Built in self-healing; automatic failure detection Global namespace with active data access and modification; support for nodes of different generations; should be expandable vertically with the addition of disks and horizontally with the addition of nodes; vertical expansion must be no disruptive. Support for metadata search: all disk and controller rebuilds should leverage protection within same site and should not consume WAN bandwidth to greatest extent feasible and meta-data search should be fast and accordingly SSD should be factored for metadata storage; should offer content protection using replication and Erasure coding irrespective of object size; support for multi tenancy and quota limits; metering capability; built in dashboard for capacity, object count etc.; support for audit trails; REST API support	Any active active DC setup with near zero or zero RPO will consume WAN bandwidth. In active active DC no manual intervention is required for failover of sites. Please confirm the Round trip Latency between the 3 sites and dedicated network bandwidth available between sites. **Please change to** should be expandable **vertically / hrozentally** with the addition of disks / addition of nodes; **vertical / horizantal** expansion must be no disruptive	As per RFP
24	25 / 8	25. Garbage collection process must be dynamically tunable while meeting throughput requirements without impacting GET/ PUT latency.	There is no tuning in autoexpire clearing objects for performance. Please calrify if this is a mandate requirement.	Please check corrigendum.

Pre-bid Queries Response

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Sr. No.	Tender Reference		Query / Clarification / Suggestions from the Bidder	Tenderer Response
	Page No. / Section No. / Clause No.	Tender Description		
25	26 / 8	26. Throughput of 1GBPS up to 6K (per 1 PB usable capacity) transactions per second with 500KB size, assuming 25% PUT, 25% DEL, 50% GET. Growth to 600k transactions per second. System background tasks are not included in the transaction rate.	Change to: Throughput of 1GBPS (per 1 PB usable capacity) transactions per second with 10MB size, assuming 25% PUT, 25% DEL, 50% GET. System background tasks are not included in the transaction rate. Need to size the nodes for the performance required	As per RFP
26	28 / 8	28. Object storage system must be able to dynamically grow from three site configuration to four site configuration while supporting the data protection requirements in each site. The RTO of such failover, including both data and metadata, at the object storage level, must be zero or near-zero. Similarly, RPO for object storage shall be zero or near-zero. Object storage system shall be capable of self-healing (without manual interventions) for outages up to one week in duration.	Please calrify what will be 4th site used for. Please share the RPO and RTO values for data and metadata failure. Please clarify RPO for object storage shall be zero or near-zero in which scenario	As per RFP
27	32 / 8	32. Should have ability to identify and tag data depending on content with the ability to search based on meta-data	**Change to :** Should have ability to identify and tag data depending on content with the ability to search based on meta-data **using ELK or similar tools**	As per RFP
28	34 / 8	34. Migration from existing storage to proposed object storage (approx. 1PB)	Please share details about the existing storage and workload details from which- migration of data need to be performed Please clarify why 500TB data migration mentioned in payment schedule	Details will be shared with successful bidder.
29	2 / 10	IMPLEMENTATION TIMELINES & PENALTIES: Installation, commissioning & integration	Please include the Migration timelines seperatly ~30 days	As per RFP
30	3 / 10	Training	Please calrify If the traning is for product or soluion specific	For product & solution and Operations.
31	13	Payment Schedule	We suggest to revise the payment clasue as below; 1. 80% on successful hardware, software, licenses delivery of Capex 2. 15 % Capex on Successful installation, configuration, integration and migration of approx. 500TB of unstructured data 3. 5 % successful FAT & Training of Capex 4. Payment of 5 years Comprehensive Warranty & OEM Support	As per RFP
32	PQ - 05 Page no. 1	The Bidder or its OEM {themselves or through reseller(s)} should havesupplied any storage solution withfollowing capacity in last three financial Years 1. At least one single order of 4 PB or higher storage solution or 2. At least 2 orders each of 2.5 PB or higher storage solution or 3. At least 3 orders each of 2 PB orHigher storage solution	The Bidder should have supplied any storage solution with following capacity in last three financial Years 1. At least one single order of 4 PB or higher storage solution or 2. At least 2 orders each of 2.5 PB or higher storage solution or 3. At least 3 orders each of 2 PB orHigher storage solution If The PQ 5 and 6 satisfied by OEM only; Than there is no requremnet of bidder for such a bid; So we request you to make PQ-5 Applicable to Bidder only not Bidder / OEM.	As per RFP

Pre-bid Queries Response

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Sr. No.	Tender Reference		Query / Clarification / Suggestions from the Bidder	Tenderer Response
	Page No. / Section No. / Clause No.	Tender Description		
33	PQ - 09 page no 2	The Bidder should have at least one office in Gujarat which can provide 24x7 technical support & service to meet SLA	The OEM should have at least one office in Gujarat which can provide 24x7 technical support & service to meet SLA In Continuation of Above Point if Bidder Qualify PQ-5 by OEM Supply Experience; Then this creteria should be applicable to OEM, not Bidder.	As per RFP
34	New	New Point	If in RA all the bidder's from Single OEM remains, What will be the process?	As per RFP
35	New	New Point	One OEM can particiate with one bidder only. for aggressive competition and Faster TAT; Please ask for One OEM one bid.	As per RFP, OEM can go with any bidder who comply with this BID requirement.
36		Garbage collection process must be dynamically tunable while meeting throughput requirements without impacting GET/ PUT latency.	Garbage collection process must be dynamically tunable while meeting throughput requirements without impacting GET/ PUT latency. If proposed Object Storage architecture has overheads due to garbage collection, then addon 25% usable capacity should be supplied day one.Garbage collection is a process of reclaiming the space after deletion of any object. If there is any delay in garbage collection process (reclaiming space) then at times this leads to the substantial space occupied by data which is under process of deletion, hence the bidder who has overheads for Garbage collection process then they should offer additional 25% usable space.	See the corrigendum.
37		Throughput of 1GBPS up to 6K (per 1 PB usable capacity) transactions per second with 100KB size, assuming 25% PUT, 25% DEL, 50% GET. Growth to 600k transactions per second. System background tasks are not included in the transaction rate.	Please change as per below. Throughput of 1GBPS up to 6K (per 1 PB usable capacity) transactions per second with 100KB size, assuming 25% PUT, 25% DEL, 50% GET. Growth to 120k transactions per second. System background tasks are not included in the transaction rate. Please update this clause from to 120K transactions per second . When the capcity grows the performance will grow hand in hand.	As per RFP
38		Object storage system must be able to dynamically grow from three site configuration to four site configuration while supporting the data protection requirements in each site, such that any one site could become primary at any time. The RTO of such failover, including both data and metadata, at the object storage level, must be zero. Similarly, RPO for object storage shall be zero or near-zero. Object storage system shall be capable of self-healing (without manual interventions) for outages up to one week in duration.	Please changes the clause as per below: Object storage system must be able to dynamically grow from three site configuration to four site configuration while supporting the data protection requirements in each site, such that any one site could become primary at any time. The RTO of such failover, including both data and metadata, at the object storage level, must be zero. Similarly, RPO for object storage shall be zero or near-zero 15 minutes. Object storage system shall be capable of self-healing (without manual interventions) for outages up to one week in duration. Zero RPO is not practically possible, to achieve new zero RPO some time frame should be specified, we recommend 15 min RPO which is best possible.	As per RFP

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39		Enterprise file synchronization and sharing software services to enable users to securely synchronize and share documents from end devices (laptop, mobile, pc,etc.) Minimum File sync and share software features :	These clauses are OEM Specific and limit majority of the OEMs to participate.	As per RFP
40			Enterprise file synchronization and sharing software services to enable users to securely synchronize and share documents from end devices (laptop, mobile, pc,etc.) Minimum File sync and share software features :	As per RFP
41		Support multi-tenancy and data allocation and segregation per tenant, role based access per tenant	Support multi-tenancy and data allocation and segregation per tenant, role based access per tenant	As per RFP
41		File Preview Easily search Metadata	File Preview Easily search Metadata	As per RFP
42		Version Control Upload singularly or in bulk Share & Distribute files and folders Tenants, Groups & Users wise access Intuitive, modern web-based user interface , RESTful API Integration, Role based access, LDAP directory integration,	Version Control Upload singularly or in bulk Share & Distribute files and folders Tenants, Groups & Users wise access Intuitive, modern web-based user interface , RESTful API Integration, Role based access, LDAP directory integration,	As per RFP
43		File Locking - Lock files to prevent users from making concurrent edits that could cause file conflicts. Users are notified when files are locked	File Locking - Lock files to prevent users from making concurrent edits that could cause file conflicts. Users are notified when files are locked	Please check corrigendum.
44		File Versioning - Versioning-Feature for files which allows rollback to older file versions	File Versioning - Versioning-Feature for files which allows rollback to older file versions	As per RFP
45		File Tagging - Add specific tags to your files. This feature allows smart filtering of files and works with shared files as well	File Tagging - Add specific tags to your files. This feature allows smart filtering of files and works with shared files as well	Please check corrigendum.
46		Content Sharing - Sharing of files and more with users via an anonymous link (password protection, expiration date possible)	Content Sharing - Sharing of files and more with users via an anonymous link (password protection, expiration date possible)	As per RFP
47		Sharing Permission Management - Feature to selectively restrict access to shared content (Create, Edit, Delete, Reshare)	Sharing Permission Management - Feature to selectively restrict access to shared content (Create, Edit, Delete, Reshare)	As per RFP
48		Tenants, Groups & Users - Only giving specific users or organisations access to certain assets & time limit the access	Tenants, Groups & Users - Only giving specific users or organisations access to certain assets & time limit the access	As per RFP
49		Large File Support (>4 GB)	Large File Support (>4 GB)	As per RFP
50		Sharing Assets Securely - Sharing assets securely with no file size limitations & revocable access	Sharing Assets Securely - Sharing assets securely with no file size limitations & revocable access	As per RFP
51		The Bidder or its OEM {themselves or through reseller(s)} should have supplied any storage solution with following capacity in last three financial Years 1. At least one single order of 4 PB or higher storage solution or 2. At least 2 orders each of 2.5 PB or higher storage solution or 3. At least 3 orders each of 2 PB or Higher storage solution	Can Bidder submit its work experience of any storage Ex- Block, File or object It will allow more participation and hence more competeive prices.	**Yes-As per RFP**

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52		ePBG Percentage(10%)	In reference to the office memorandum issued by Ministry of Finance, Procurement Policy Division vide circular no. No. F.9/4/2020-PPD dated 12.11.2020, As per Rule 171 of General Financial Rules (GFRs) 2017, the Performance Security is reduced to 3%. 'Hence Requesting to amend the PBG amount 3% of contract value.	**As per RFP**
53		1. As per the Procurement of Object storage with 5 PB usable Space in a three-site configuration document the storage requirement is provided as follows Array/Appliance with 5PB usable Space in a three-site configuration i.e., GSDC Gandhinagar, Near DR-Vadodara, Far-DR Bhubaneshwar distributed geographically to provide 2 PB usable at GSDC, 1PB usable at Near-DR and 2PB usable at Far-DR.	1. Where are the users physically located who shall perform the file sync and share tasks? Are all the 10,000 active users physically present centrally in GSDC Gandhinagar or the 10,000 users distributed to each of the three locations and need to access their files locally? 2. If the 10,000 users are distributed across three sites. What is the user count in each of the of the locations	Users are spreaded across the internet & intranet.
54			We understand that GIL has requested a 3-site deployment of object storage. 'a. Is there a DR requirement for business continuity purposes for File sync and share solution? b. If Yes , then what is the capacity of File sync and share users to be sized for business continuity?	As per RFP
55		Support multi-tenancy and data allocation and segregation per tenant, role-based access per tenant.	What kind of multi-tenancy is expected in this context?	As per RFP
56	Minimum Tech Specs, Point 35c	File Locking - Lock files to prevent users from making concurrent edits that could cause file conflicts. Users are notified when files are locked	**Modification**: File Locking - Lock files to prevent users from making concurrent edits that could cause file conflicts. Users are notified when files are locked **OR equivalent solution of timestamping and versioning of edited file should be provided for conflict resolution.** **Justification** : The File locking mechanism is not support by leading File sync and share solution and hence it will not be possible to adhere to this ask, hence request for modification as suggested.	File Locking - Lock files to prevent users from making concurrent edits that could cause file conflicts. Users are notified when files are locked OR equivalent solution
57	Minimum Tech Specs, Point 35e	File Tagging - Add specific tags to your files. This feature allows smart filtering of files and works with shared files as well	**Deletion of this clause** Leading File Sync and Share solution do not support tagging of files, this may be achieved using 3rd party software for Audit trail of files and can integrate with File Sync and share using APIs, these NOT native features of File sync and share solution.	3rd party software can be integrated.

Pre-bid Queries Response

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58	Minimum Tech Specs, Point 2	The object storage cluster shall be scalable to minimum 50 PB in a single cluster/ namespace by adding drives and nodes.	RFP clause mentions the word 'node', but there is no definition of the word 'node' provide. Request that the clause be modified to below, to allow for better understanding of what a 'node' consists of: **The object storage cluster shall be scalable to minimum 50 PB in a single cluster/ namespace by adding drives and nodes.** **A node is defined as physical unit of object storage responsible for storing user data (or a portion of it) on itself and erasure coding it.**	As per RFP
59	Minimum Tech Specs, Point 3	Proposed Object storage must provide automatic balancing of the stored capacity across all nodes in a cluster, ensuring data gets distributed across all nodes. When new nodes are added or removed from the cluster, existing data should be redistributed among all nodes	While ability to add or remove nodes has been asked, it is not clear what is the minimum number of nodes that can be added. To ensure that there is not limitation of adding multiple nodes for capacity addition, we request that the clause be modified to below: **Proposed Object storage must provide automatic balancing of the stored capacity across all nodes in a cluster, ensuring data gets distributed across all nodes. When new nodes are added or removed from the cluster, existing data should be redistributed among all nodes.** **Node upgrade should be available in increments of a single node at a time**	As per RFP
60	Minimum Tech Specs, Point 9	The system must be able to support Write Once Read Many (WORM)	Since WORM is an important capability to provide immutability and is also used in ransomware protection, request that the clause be modified to below to allow for certifications related to data immutability **The system must be able to support Write Once Read Many (WORM), storage must be certified as supporting SEC Rule 17a-4(f) and CFTC 1.31(b)-(c) standard for electronic record storage. Should be validated by 3rd Party**	As per RFP
61	Minimum Tech Specs, Point 10	The system Should have Role Base Access Control or equivalent mechanism with Integration with Active Directory and LDAP	Role based access in object storage is provided via IAM. Request that the clause be modified to below to allow for IAM as well: **The system Should have Role Base Access Control/AWS IAM or equivalent mechanism and support Integration with Active Directory and LDAP**	The system Should have Role Base Access Control or IAM or equivalent mechanism with Integration with Active Directory and LDAP
62	Minimum Tech Specs, Point 20	Data Protection: All Data should be available even if one site failed and multiple disks at a site are failed	Request you to please clarify on this point because as per the curent ask in the RFP the capcity asked is different for all sites.	Usable capacity of 5 PB has been asked in the RFP. Proposed solution should meet all scope,technical and functional requirement and other conditions of the RFP.

Pre-bid Queries Response

Bid for Procurement of Object storage with 5 PB usable Space in a three-site configuration (i.e., GSDC Gandhinagar, Near-DR Vadodara, Far-DR Bhubaneshwar) on Behalf of Department of Science and Technology, Gandhinagar (GeM bid no. GEM/2023/B/3972430 dated 20.09.2023)

Sr. No.	Tender Reference		Query / Clarification / Suggestions from the Bidder	Tenderer Response
	Page No. / Section No. / Clause No.	Tender Description		
63	Minimum Tech Specs, Point 29	Bidder must ensure if Load balancer and Network Switches are recommended to integrate object storage, then same must be offered in redundant config and must be sized to offer the asked throughput. Bidder must ensure that Load Balancer supplied should be scalable	Load balancers can be local, and global as well. Global load balancing facility allows for reducing RTO by being able to automate movement of applications to surviving sites in case of a site failure. Request that the clause be modified as below, to allow for global load balancing capability: **Bidder must ensure if Load balancer and Network Switches are recommended to integrate object storage, then same must be offered in redundant config and must be sized to offer the asked throughput. Offered Load balancer must offer both local and global (GSLB) load balancing. Bidder must ensure that Load Balancer supplied should be scalable**	As per RFP
64	Minimum Tech Specs, Point 30	Bidder must ensure that object storage should be configured to protect from no data loss and data unavailability in the case of both scenarios occurring one by one (a) simultaneous failure of any 4 disks, including SSD (b) simultaneous failure of any 2 nodes/controllers.	Request that the word controller be removed, as it is not defined in the specifications. Therefore request that the clause be changed to below: **Bidder must ensure that object storage should be configured to protect from no data loss and data unavailability in the case of both scenarios occurring one by one (a) simultaneous failure of any 4 disks, including SSD (b) simultaneous failure of any 2 nodes**	Bidder must ensure that object storage should be configured to protect from no data loss and data unavailability in the case of both scenarios occurring one by one (a) simultaneous failure of any 4 disks, including SSD (b) simultaneous failure of any 2 nodes **OR** controllers.
65	Minimum Tech Specs, Point 32	Should have ability to identify and tag data depending on content with the ability to search based on meta-data	Ability to apply unlimited metadata tags is important. Request that the clause be changed to below: **Should have ability to identify and tag data depending on content with ability to apply unlimited metadata tags to the object. Should offer search based on meta-data**	As per RFP
66	Minimum Tech Specs, Point 34	Migration from existing storage to proposed object storage (approx. 1PB)	Please let us know the make and model of the existing storage, and the protocol in which data has been ingested/ written in to the existing storage.	NetAPP FAS 8200/8300
67	Delivery Period	Material needs to be delivered in 60 days on issue of firm purchase order	Request you to please change the delivery period to 90-120 days as most of the components required in this bid are built to order and also with current part shortage situation it is not possible to deliver in the current asked timeframe.	Material needs to be delivered in 90 days on issue of firm purchase order

Pre-bid Queries Response

Bid for Procurement of Object storage with 5 PB usable Space in a three-site configuration (i.e., GSDC Gandhinagar, Near-DR Vadodara, Far-DR Bhubaneshwar) on Behalf of Department of Science and Technology, Gandhinagar (GeM bid no. GEM/2023/B/3972430 dated 20.09.2023)

Sr. No.	Tender Reference		Query / Clarification / Suggestions from the Bidder	Tenderer Response
	Page No. / Section No. / Clause No.	Tender Description		
68	Minimum Technical specifications: Point-01	Array/Appliance with 5PB usable Space in a three-site configuration i.e., GSDC Gandhinagar, Near DR- Vadodara, Far-DR Bhubaneshwar distributed geographically to provide 2 PB usable at GSDC, 1PB usable at Near-DR and 2PB usable at Far-DR. (Usable space means amount of storage space that will be available for storage after all system overheads are accounted for including but not limited to data protection, metadata, space required for objects pending garbage collection, etc.)	Array/Appliance with 5PB usable Space in a three-site configuration i.e., GSDC Gandhinagar, Near DR- Vadodara, Far-DR Bhubaneshwar distributed geographically to provide 2 PB usable at GSDC, 1PB usable at Near-DR and 2PB usable at Far-DR. (Usable space means amount of storage space that will be available for storage after all system overheads are accounted for including but not limited to data protection, metadata, space required for objects pending garbage collection, etc.) **Object storage solution should not consume more than one rack (42U) at each location** **Justification** it will help to reduce footprint and eventually power and cooling requirement	As per RFP
69	Minimum Technical specifications: Point-08	The system must support encrypting data at rest.	The system must support encrypting data at rest and data in **flight during replication/distribution to other locations.** **Justification** it will help to protection the data is end to end (Data at rest and in flight). Encryption at Rest refers to the encryption applied to the stored data. Encryption in Flight refers to encrypting data that is transferred between two nodes (distributed geographically) of the network. End to End Data encryption (data at rest and data in flight) helps prevent unauthorized users from reading sensitive data on a across location and associated data storage systems	As per RFP
70	Minimum Technical specifications: Point-35c	File Locking - Lock files to prevent users from making concurrent edits that could cause file conflicts. Users are notified when files are locked	**Request you to please remove this point** Justification Multiple edit of files will be saved as filename-<username>-<timestamp> for conflict resolution. For Office files (DOC, XLS, PPT), we supports integration with Office 365 for online collaboration of Office files.	File Locking - Lock files to prevent users from making concurrent edits that could cause file conflicts. Users are notified when files are locked OR equivalent solution
71	Minimum Technical specifications: Point-35d	File Versioning - Versioning-Feature for files which allows rollback to older file versions	File Versioning - Versioning-Feature for files which allows rollback to older file versions **& only change data should be store for the various versions of a file** Justification keeping full copy of data for a version of file will consume a lot of capacity & only a limited number of version will be store	As per RFP

Pre-bid Queries Response

Bid for Procurement of Object storage with 5 PB usable Space in a three-site configuration (i.e., GSDC Gandhinagar, Near-DR Vadodara, Far-DR Bhubaneshwar) on Behalf of Department of Science and Technology, Gandhinagar (GeM bid no. GEM/2023/B/3972430 dated 20.09.2023)

Sr. No.	Tender Reference		Query / Clarification / Suggestions from the Bidder	Tenderer Response
	Page No. / Section No. / Clause No.	Tender Description		
72	Minimum Technical specifications: Point-35e	File Tagging - Add specific tags to your files. This feature allows smart filtering of files and works with shared files as well	**Request you to please remove this point** Justification This feature supported by third-party application via Connectors.This is not industry standard feature.	3rd party software can be integrated.
73	Addon Specification	The EFSS solution should have global and block level deduplication to reduce storage footprint at backend object storage	**Justification** Global & block level deduplication will have optimize backend storage	Not Accepted
74	Addon Specification	The EFSS solution must have Source-Based Deduplication from the end user's workstation/device, automated & bandwidth-optimized backup with block-level deduplication.	**Justification** This points are the necessity for the file syn/share and should be part of the RFP like deduplication /compression will help to reduce space, bandwidth optimization will help to reduce bandwidth utlization and better data sync.	Not Accepted
75	Addon Specification	The EFSS solution supports Remote Wipe, Remote Secure Shred of the mobile phone.	**Justification** Remote wipe is a security feature that allows a IT administrator to send a command that remotely deletes data from a computing device if computing device is lost	Not Accepted
76	Additional Eligibility Evaluation Criteria: 5. The Bidder or its OEM {themselves or through reseller(s)} should have supplied any storage solution with following capacity in last three financial Years 1. At least one single order of 4 PB or higher storage solution or 2. At least 2 orders each of 2.5 PB or higher storage solution or 3. At least 3 orders each of 2 PB or	Details of such projects undertaken along with Copy of Work Order & Work ongoing / Completion certificate of the project from respective clients clearly stating the scope, status (percentage completion) and the contact details of the authority.	Details of such projects undertaken along with Copy of Work Order & Work ongoing / Completion certificate of the project from respective clients clearly stating the scope, status (percentage completion) and the contact details of the authority.	As Per RFP
77	Tender Doc_GIL	Delivery Days	Request you kindly Amend with : 60 days to 120 days	See the corrigendum.
78	SoW	Migration from existing storage to proposed object storage (approx. 1PB)	Request you kindly share detail for existing storage, storage connectivity , data type etc.	NetAPP FAS 8200/8300
79		Garbage collection process must be dynamically tunable while meeting throughput requirements without impacting GET/ PUT latency.	Garbage collection process must be dynamically tunable while meeting throughput requirements without impacting GET/ PUT latency. If proposed Object Storage architecture has overheads due to garbage collection, then addon 25% usable capacity should be supplied day one.	See the corrigendum.
			These clauses are OEM Specific and limit majority of the OEMs to participate.	

Pre-bid Queries Response

Bid for Procurement of Object storage with 5 PB usable Space in a three-site configuration (i.e., GSDC Gandhinagar, Near-DR Vadodara, Far-DR Bhubaneshwar) on Behalf of Department of Science and Technology, Gandhinagar (GeM bid no. GEM/2023/B/3972430 dated 20.09.2023)

Sr. No.	Page No. / Section No. / Clause No.	Tender Description	Query / Clarification / Suggestions from the Bidder	Tenderer Response
		Tender Reference		
80		Enterprise file synchronization and sharing software services to enable users to securely synchronize and share documents from end devices (laptop, mobile, pc,etc.) Minimum File sync and share software features :	Enterprise file synchronization and sharing software services to enable users to securely synchronize and share documents from end devices (laptop, mobile, pc,etc.) Minimum File sync and share software features :	As per RFP
81		Support multi-tenancy and data allocation and segregation per tenant, role based access per tenant	Support multi-tenancy and data allocation and segregation per tenant, role based access per tenant	As per RFP
82		File Preview Easily search Metadata	File Preview Easily search Metadata	As per RFP
83		Version Control Upload singularly or in bulk Share & Distribute files and folders Tenants, Groups & Users wise access Intuitive, modern web-based user interface , RESTful API Integration, Role based access, LDAP directory integration,	Version Control Upload singularly or in bulk Share & Distribute files and folders Tenants, Groups & Users wise access Intuitive, modern web-based user interface , RESTful API Integration, Role based access, LDAP directory integration,	As per RFP
84		File Locking - Lock files to prevent users from making concurrent edits that could cause file conflicts. Users are notified when files are locked	File Locking - Lock files to prevent users from making concurrent edits that could cause file conflicts. Users are notified when files are locked	Please check corrigendum.
85		File Versioning - Versioning-Feature for files which allows rollback to older file versions	File Versioning - Versioning Feature for files which allows rollback to older file versions	As per RFP
86		File Tagging - Add specific tags to your files. This feature allows smart filtering of files and works with shared files as well	File Tagging - Add specific tags to your files. This feature allows smart filtering of files and works with shared files as well	Please check corrigendum.
87		Content Sharing - Sharing of files and more with users via an anonymous link (password protection, expiration date possible)	Content Sharing - Sharing of files and more with users via an anonymous link (password protection, expiration date possible)	As per RFP
88		Sharing Permission Management - Feature to selectively restrict access to shared content (Create, Edit, Delete, Reshare)	Sharing Permission Management - Feature to selectively restrict access to shared content (Create, Edit, Delete, Reshare)	As per RFP
89		Tenants, Groups & Users - Only giving specific users or organisations access to certain assets & time limit the access	Tenants, Groups & Users - Only giving specific users or organisations access to certain assets & time limit the access	As per RFP
90		Large File Support (>4 GB)	Large File Support (>4 GB)	As per RFP
91		Sharing Assets Securely - Sharing assets securely with no file size limitations & revocable access	Sharing Assets Securely - Sharing assets securely with no file size limitations & revocable access	As per RFP
92		Storage should be offered with the capability of data reduction. Licenses should be provided from day one for entire capacity. Storage should support encryption, auto-configuration, and self-healing features.	Request to modify clause as follows. Storage should be offered with the capability of data reduction. Licenses should be provided from day one for entire capacity. Storage should support encryption, auto-configuration, and self-healing features. Justification: The data in Object storage is already processed with dedupe, Compressed and Encrypted. There is no scope of further reduction of data.	As per RFP

Pre-bid Queries Response

Bid for Procurement of Object storage with 5 PB usable Space in a three-site configuration (i.e., GSDC Gandhinagar, Near-DR Vadodara, Far-DR Bhubaneshwar) on Behalf of Department of Science and Technology, Gandhinagar (GeM bid no. GEM/2023/B/3972430 dated 20.09.2023)

Sr. No.	Tender Reference		Query / Clarification / Suggestions from the Bidder	Tenderer Response
	Page No. / Section No. / Clause No.	Tender Description		
93		Throughput of 1GBPS up to 6K (per 1 PB usable capacity) transactions per second with 500KB size, assuming 25% PUT, 25% DEL, 50% GET. Growth to 600k transactions per second. System background tasks are not included in the transaction rate.	Query: Request you to clarify 600K transactions per second? What will it mean in terms of Read and Write Throughput?	As per RFP
94		Object storage system must be able to dynamically grow from three site configuration to four site configuration while supporting the data protection requirements in each site. The RTO of such failover, including both data and metadata, at the object storage level, must be zero or near-zero. Similarly, RPO for object storage shall be zero or near-zero. Object storage system shall be capable of self-healing (without manual interventions) for outages up to one week in duration.	Request to remove this Clause for wider participation. This is vendor specific clause.	As per RFP
95		File Preview Easily search Metadata Version Control Upload singularly or in bulk Share & Distribute files and folders Tenants, Groups & Users wise access Intuitive, modern web-based user interface, RESTful API Integration, Role based access, LDAP directory integration,	Queries for File syn and Share: 1. What will be the total capacity for EFSS portion? E.g. 200TB? (Reason for asking: EFSS license has 2 portions - capacity license and named users license) 2. What software distribution software, e.g. SCCM (Configuration Manager) is used to install Agent MSI installation file to user's PC (desktop/laptop)? 3. What is file sync and share software currently being used?	Currently file sync and share is not in use. Differnet users may have differnet capacity needs.
96		File Locking - Lock files to prevent users from making concurrent edits that could cause file conflicts. Users are notified when files are locked	Request to remove this Clause for wider participation.	See the corrigendum
97		File Tagging - Add specific tags to your files. This feature allows smart filtering of files and works with shared files as well	Request to remove this Clause for wider participation.	See the corrigendum
98		1) Array/Appliance with 5PB usable Space in a three- site configuration i.e., GSDC Gandhinagar, Near DR- Vadodara, Far-DR Bhubaneshwar distributed geographically to provide 2 PB usable at GSDC, 1PB usable at Near-DR and 2PB usable at Far-DR. (Usable space means amount of storage space that will be available for storage after all system overheads are accounted for including but not limited to data protection, metadata, space required for objects pending garbage collection, etc.)	5 PB usable space asked in 3 sites, our query is 1) Even if one site down the usable capacity should 5PB or the usable capacity is 5PB - less capacity of down site. 2) Each site will have indepenent data or GSDC data only replicated to Far DR and Near DR.	In case of one site down, all GSDC data should be available
99		19) Specialized ToR 10/25 Gbe or higher with High Availability as Quoted (if required) Switches per rack	Please Spcify the required number of ports and Uplink ports	Bidder may size as per solution and performance requirement.

Pre-bid Queries Response

Bid for Procurement of Object storage with 5 PB usable Space in a three-site configuration (i.e., GSDC Gandhinagar, Near-DR Vadodara, Far-DR Bhubaneshwar) on Behalf of Department of Science and Technology, Gandhinagar (GeM bid no. GEM/2023/B/3972430 dated 20.09.2023)

Sr. No.	Tender Reference		Query / Clarification / Suggestions from the Bidder	Tenderer Response
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100		35.e) File Tagging - Add specific tags to your files. This feature allows smart filtering of files and works with shared files as well.	Requisting to remove this feature. Which is not avaible to all the file sync softwares	See the corrigendum
101	Eligibility Evaluation Criteria	Eligibility Criteria No. 5 & 6	It is primarily expected from bidder that they have relevant experience of the work that is required as part of the RFP. However the Object storage experience is REMOVED from the RFP and made is "ANY STORAGE". Requesting authority to check on this relaxation and add Releavnt expereince required in the RFP.	As per RFP.
102	Eligibility Evaluation Criteria	Eligibility Criteria No. 5 & 6	All GIL tenders clearly mentions the experience of implementation in Central / State Govt Organization / PSU / Large Public Listed Company / Enterprise (Domestic or Globally) / BFSI is missing here. Requesting authority to add the same for OEM and SI both to have quality bids.	As per RFP.
103	Eligibility Evaluation Criteria	Eligibility Criteria No. 5 & 6	Please make below changes so we can participate. We were qualified last time and now with changes in PQs we are not.The Bidder or its OEM {themselves or through reseller(s)} should have supplied any storage solution withfollowing capacity in last three financial Years 1. At least one single order of 4 PB or higher storage solution or 2. At least 2 orders each of 2.5 PB or higher storage solution or 3. At least 3 orders each of 2 PB or Higher storage solution or The Bidder should have supplied similar object storage, in at least one of the last four financial years before the bid pening date to any Central / State Govt Organization / PSU / Large Public Listed Company/ Enterprise (Domestic or Globally) / BFSI. Copies of relevant contracts (proving supply of cumulative order quantity in any one financial year) to be submitted along with bid in support of quantity supplied in the relevant financial year. In case of bunch bids, the category related to primary product having highest bid value should meet this criterion.	As per RFP.
104	Scope of work: Minimum Technical specifications	1. The scope is to supply Object storage with 5 PB usable Space in a three-site configuration (i.e., GSDC Gandhinagar, Near DR- Vadodara, Far-DR Bhubaneshwar.), install, configure, test and commission the required hardware, software (including all active and passive components and sub-components) and necessary licenses, if any along with the 5 years of Comprehensive warranty and OEM Support at GSDC. 34 Migration from existing storage to proposed object storage (approx. 1PB)	Q Please provide break-up of capacity to be migrated at each location. We request GIL / GSDC to provide detail of the data migration such as, Source of data, Type of data, Connectivity available. Also, migration can be a lengthy process and many dependence. We request GIL to NOT include migration as part of the project sign-off. Kindly clarify otherwise.	As per RFP

Pre-bid Queries Response

Bid for Procurement of Object storage with 5 PB usable Space in a three-site configuration (i.e., GSDC Gandhinagar, Near-DR Vadodara, Far-DR Bhubaneshwar) on Behalf of Department of Science and Technology, Gandhinagar (GeM bid no. GEM/2023/B/3972430 dated 20.09.2023)

Sr. No.	Tender Reference		Query / Clarification / Suggestions from the Bidder	Tenderer Response
	Page No. / Section No. / Clause No.	**Tender Description**		
105	Scope of work:		Q We understand that GIL/GSDC will provision connectivity and adequate network bandwidth for 1) Data Migration 2) Effective transfer of data between the sites.	Network bandwidth will be provided.
106	Scope of work:	3. Array/Appliance with 5PB usable Space in a three-site configuration is distributed geographically to provide 2 PB usable at GSDC at Gandhinagar, 1PB usable at Near- DR at Vadodara and 2PB usable at Far-DR at Bhubaneshwar.	Q 2PB usable at Gandhinagar includes space allocated for copy of data form other 2 sites. In same way, 2PB usable at Bhubaneshwar and 1PB usable at Vadodara includes space allocated copy of data from other 2 sites.	No. Usable 5 PB across thre 3 sites is required.
107	Scope of work:	6. The bidder is responsible for physical connectivity (within site) of the proposed solution	Q We understand that GIL / GSDC shall provide necessary switches with active ports, populated with transceivers and cables at each site. Kindly clarify otherwise.	All required hardware,software,licenses and passive components shoule be provided by the bidder.
108	Scope of work:	7. The Bidder shall configure the proposed solution in such a way that it should comply with all the policies of the Gujarat State Data Centre	Q Please elaborate the clause and provide the details of the policies to be implemented. This will help us provision any hardware / software / tools / services / skills to meet the requirement.	Will be shared with successful bidder.
109	Scope of work:	9. The bidder shall provide various documents like HLD, LLD and other technical documents of delivered product. The Bidder shall also share the Standard Operating Procedures Templates	Q We understand, thse are to be provided by the winning bidder based on the project execution documentation. And not during bid submission. Kindly clarify otherwise.	understanding is corrrect.
110	Scope of work:	10. The installation, implementation, commissioning, and migration shall be carried out by the OEM	Q We understand there is no migration of data involved in the project. Kindly amend the cluase accordingly.	understanding is incorrrect.
111	Scope of work:	10. The installation, implementation, commissioning, and migration shall be carried out by the OEM 34 Migration from existing storage to proposed object storage (approx. 1PB)	Q We request GIL / GSDC to provide detail of the data migration such as, Source of data, Type of data, Connectivity available. Also, migration can be a lengthy process and many dependence. We request GIL to NOT include migration as part of the project sign-off.	As per RFP
112	Warranty Support:	Warranty Support: As part of the warranty services bidder shall provide	Q Not all support activities require person onsite and DR, NDR diagnosis can be done remotely as well. We request GIL / GSDC to clarify if remote access from OEM service center and/or GSDC -Ahmedabad will be provided for diagnosis	As per RFP

Pre-bid Queries Response

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Sr. No.	Tender Reference		Query / Clarification / Suggestions from the Bidder	Tenderer Response
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113	Warranty Support:	1.11. Warranty should not become void, if DST/GIL buys, any other supplemental hardware from a third party and installs it within these machines under intimation to the bidder. However, the warranty will not apply to such supplemental hardware items installed	Q. We understand, the supplemental hardware shall be external to the storage supplied. e.g. A network swtich, Data Protection equipment etc. Kindly clarify otherwise. Background to the above query : 3rd party hardware added to the storage (drives, cards, memory.... etc.) can lead to unpredictable results, performance impact and may not be interoperable. Only components certified as interoperable under manufacturer's documents should be used.	As per RFP
114	Warranty Support:	1.13. Bidder shall ensure that the warranty complies with the agreed Technical Standards, Security Requirements, Operating Procedures, and Recovery Procedures.	Q Please provide information on the Data backup and recovery tool and policy which will be used by GIL to enable recovery procedure.	As per RFP
115	Warranty Support:	1.13. Bidder shall ensure that the warranty complies with the agreed Technical Standards, Security Requirements, Operating Procedures, and Recovery Procedures.	Q We undertand that GIL will deploy necessary security devices (say Firewall, access control...... to name a few) and put in place policies. Bidder is not required to provision any such measure(s). Kindly clarify otherwise	As per RFP
116	Minimum Technical specifications	Minimum Requirement Specification 16 All the required or necessary licenses must be perpetual and should be provided for the entire offered capacity. This should include licenses for Management and monitoring module and all other features of the object storage.	Q We request GIL to mention against the features whether licences (and software support) are to be supplied + implemented or only the feature should be available. This request is to get adequate clarity on configuration, features to deploy and manpower to allocate. For instance "14 The storage system should provide protection against ransomware or able to integrate with third party ransomware protection solution." In this scenario, 1) If ransomware protection is to be implemented, the bidder will have to supply the 3rd party protection as part of the solution. 2) If ransomware protection is to be only supported, nothing needs to be supplied.	All features should be avaialbe and implemented. Necessary hardware,software and license,passive components for the solution should be provided by the bidder.
117	Minimum Technical specifications	1 Array/Appliance with 5PB usable Space in a threesite configuration i.e., GSDC Gandhinagar, Near DR- Vadodara, Far-DR Bhubaneshwar distributed geographically to provide 2 PB usable at GSDC, 1PB usable at Near-DR and 2PB usable at Far-DR. (Usable space means amount of storage space that will be available for storage after all system overheads are accounted for including but not limited to data protection, metadata, space required for objects pending garbage collection, etc.)	Q 2PB usable at Gandhinagar includes space allocated for copy of data form other 2 sites. In same way, 2PB usable at Bhubaneshwar and 1PB usable at Vadodara includes space allocated copy of data from other 2 sites. Kindly clarify otherwise	As per RFP
118	Minimum Technical specifications	8 The system must support encrypting data at rest	Q We request GIL to clarify if KMS shall be provided by GIL or not.	As per RFP

Pre-bid Queries Response

Bid for Procurement of Object storage with 5 PB usable Space in a three-site configuration (i.e., GSDC Gandhinagar, Near-DR Vadodara, Far-DR Bhubaneshwar) on Behalf of Department of Science and Technology, Gandhinagar (GeM bid no. GEM/2023/B/3972430 dated 20.09.2023)

Sr. No.	Tender Reference		Query / Clarification / Suggestions from the Bidder	Tenderer Response
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119	Minimum Technical specifications	20 Data Protection: All Data should be available even if one site failed and multiple disks at a site are failed 27 Object storage system must provide for ability to recover objects deleted by end-users and/or systems administrators via API for at least 7 days. The time period that objects can remain recoverable must be dynamically tunable.	Q We understand GIL has necessary backup software and hardware for data protection against data loss scenarios such as accidental deletion (beyond 7 days), corruption, data over-write, etc. etc. Bidder need not provide any software / hardware. Kindly clarify otherwise	As per RFP
120	Minimum Technical specifications	26 Throughput of 1GBPS up to 6K (per 1 PB usable capacity) transactions per second with 500KB size, assuming 25% PUT, 25% DEL, 50% GET. Growth to 600k transactions per second. System background tasks are not included in the transaction rate.	Q We understand that GIL will provide necessary hardware, connectivity etc. to run these tests at each of the sites. Kindly clarify otherwise	As per RFP
121	Minimum Technical specifications	29 Bidder must ensure if Load balancer and Network Switches are recommended to integrate object storage, then same must be offered in redundant config and must be sized to offer the asked throughput. Bidder must ensure that Load Balancer supplied should be scalable	Q We request GIL to provide detail of the switches such as Make, Model, Active and available Ports, Type of transceiver etc. to which the new storage will be connected.	As per RFP
122	Minimum Technical specifications	30 Bidder must ensure that object storage should be configured to protect from no data loss and data unavailability in the case of both scenarios occurring one by one (a) simultaneous failure of any 4 disks, including SSD (b) simultaneous failure of any 2 nodes/controllers.	Q We understand GIL has necessary backup software and hardware for data protection against data loss scenarios such as accidental deletion (beyond 7 days), corruption, data over-write, etc. etc. Bidder need not provide any software / hardware. Kindly clarify otherwise	As per RFP
123	Minimum Technical specifications	31 Scope of supply must include installation, commissioning & integration together with all necessary software, hardware, licenses, racks, iPDU, power cord, or any other component for the working of the solution etc to make the system fully functional as intended	Q We request GIL to provide scope of integration. If integration implies with existing systems, please provide detailed scope of such integration. This will help us make estimate of efforts, time and costs.	As per RFP
124	Page No. 7 Point no. 22	Must provide access for a variety of operating systems (UNIX, Mac, Linux, and Windows latest and legacy versions)	Supplied Object storage should be accessible or should support S3 API or 3rd party S3 clients for a variety of operating systems (UNIX, Mac, Linux, and Windows latest and legacy versions)	As per RFP
125	Page No. 8 Point no. 30	Bidder must ensure that object storage should be configured to protect from no data loss and data unavailability in the case of both scenarios occurring one by one (a) simultaneous failure of any 4 disks, including SSD (b) simultaneous failure of any 2 nodes/controllers.	Bidder must ensure that object storage should be configured to protect from no data loss and data unavailability in the case of both scenarios occurring one by one (a) simultaneous failure of 2 disks, including SSD (b) simultaneous failure of any 2 nodes/controllers.	As per RFP

Pre-bid Queries Response

Bid for Procurement of Object storage with 5 PB usable Space in a three-site configuration (i.e., GSDC Gandhinagar, Near-DR Vadodara, Far-DR Bhubaneshwar) on Behalf of Department of Science and Technology, Gandhinagar (GeM bid no. GEM/2023/B/3972430 dated 20.09.2023)

Sr. No.	Tender Reference		Query / Clarification / Suggestions from the Bidder	Tenderer Response
	Page No. / Section No. / Clause No.	Tender Description		
126	Page No. 8 & 9 Point no. 35	Enterprise file synchronization and sharing software services to enable users to securely synchronize and share documents from end devices (laptop, mobile, pc, etc.) Minimum File sync and share software features: 10000 users, concurrency at least 1000 users. Additional user licenses if required, can be purchased at the same rate during the contract period. All required hardware, software or any other component including licenses has to be provided by bidder	The below functionality should be natively available in supplied object storage or should integrate with 3rdparty product to achieve the same - Enterprise file synchronization and sharing software services to enable users to securely synchronize and share documents from end devices (laptop, mobile, pc, etc.) Minimum File sync and share software features: 10000 users, concurrency at least 1000 users. Additional user licenses if required, can be purchased at the same rate during the contract period. All required hardware, software or any other component including licenses has to be provided by bidder	As per RFP
127	Page No. 9 Point no. 35e	File Tagging - Add specific tags to your files. This feature allows smart filtering of files and works with shared files as well	Need to remove this clause	See the corrigendum
128	Page No. 9 Point no. 35f	Content Sharing - Sharing of files and more with users via an anonymous link (password protection, expiration date possible)	Need to remove this clause	As per RFP
129		Array/Appliance with 5PB usable Space in a three- site configuration i.e., GSDC Gandhinagar, Near DR- Vadodara, Far-DR Bhubaneshwar distributed geographically to provide 2 PB usable at GSDC, 1PB usable at Near-DR and 2PB usable at Far-DR. (Usable space means amount of storage space that will be available for storage after all system overheads are accounted for including but not limited to data protection, metadata, space required for objects pending garbage collection, etc.)	5 PB usable space asked in 3 sites, our query is 1) Even if one site down the usable capacity should 5PB or the usable capacity is 5PB - less capacity of down site. 2) Each site will have indepenent data or GSDC data only replicated to Far DR and Near DR.	As per RFP
130		19) Specialized ToR 10/25 Gbe or higher with High Availability as Quoted (if required) Switches per rack	Please Spcify the required number of ports and Uplink ports	As per RFP
131		35.e) File Tagging - Add specific tags to your files. This feature allows smart filtering of files and works with shared files as well.	Requisting to remove this feature. Which is not avaible to all the file sync softwares	See the corregendum

		Bid for Procurement of Object storage with 5 PB usable Space in a three-site configuration (i.e., GSDC Gandhinagar, Near-DR Vadodara, Far-DR Bhubaneshwar) on Behalf of Department of Science and Technology, Gandhinagar (GeM bid no. GEM/2023/B/3972430 dated 20.09.2023)	
		Corrigendum-1 dated 16-03-2024	
Sr. No.	**Volume & Section**	**Bid Clause**	**Remarks / Modified / added Clause**
1	**Minimum Technical specifications Sr. No. 25**	Garbage collection process must be dynamically tunable while meeting throughput requirements without impacting GET/ PUT latency.	Garbage collection process must be dynamically **or automatically** tunable while meeting throughput requirements without impacting GET/ PUT latency.
2	**Minimum Tech Specs, Sr. No. 35c**	File Locking - Lock files to prevent users from making concurrent edits that could cause file conflicts. Users are notified when files are locked	File Locking - Lock files to prevent users from making concurrent edits that could cause file conflicts. Users are notified when files are locked **or equivalent solution.**
3	**Minimum Tech Specs, Sr. No. 35e**	File Tagging - Add specific tags to your files. This feature allows smart filtering of files and works with shared files as well	File Tagging - Add specific tags to your files. This feature allows smart filtering of files and works with shared files as well. **3rd party software can be integrated.**
4	**Minimum Tech Specs, Sr. No. 10**	The system Should have Role Base Access Control or equivalent mechanism with Integration with Active Directory and LDAP.	The system Should have Role Base Access Control **or IAM** or equivalent mechanism with Integration with Active Directory and LDAP.

Bid for Procurement of Object storage with 5 PB usable Space in a three-site configuration (i.e., GSDC Gandhinagar, Near-DR Vadodara, Far-DR Bhubaneshwar) on Behalf of Department of Science and Technology, Gandhinagar (GeM bid no. GEM/2023/B/3972430 dated 20.09.2023)			

Corrigendum-1 dated 16-03-2024			
Sr. No.	Volume & Section	Bid Clause	Remarks / Modified / added Clause
5	**Minimum Tech Specs, Sr. No. 30**	Bidder must ensure that object storage should be configured to protect from no data loss and data unavailability in the case of both scenarios occurring one by one (a) simultaneous failure of any 4 disks, including SSD (b) simultaneous failure of any 2 nodes/controllers.	Bidder must ensure that object storage should be configured to protect from no data loss and data unavailability in the case of both scenarios occurring one by one (a) simultaneous failure of any 4 disks, including SSD (b) simultaneous failure of any 2 nodes **OR** controllers.
6	**IMPLEMENTATION TIMELINES & PENALTIES:**	Supply of the material including Licenses & OEM Warranty Certificate. T1=T+60 days from the date of issuance of work] order	Supply of the material including Licenses & OEM Warranty Certificate. T1=T+~~60~~ **90** days from the date of issuance of work] order
7	**Additional Clause**		**DST/GIL/GSDC are in process for finalization of location for Far/Near DR . The bidder is liable for two time relocation and reinstallation at Far/Near DR location without any additional cost to the tenderer.**
8	**Additional Eligibility Evaluation Criteria: Eligibility Criteria-5**	The Bidder or its OEM {themselves or through reseller(s)} should have supplied any storage solution with following capacity in last three financial Years 1. At least one single order of 4 PB or higher storage solution or 2. At least 2 orders each of 2.5 PB or higher storage solution or 3. At least 3 orders each of 2 PB or Higher storage solution	The Bidder ~~or its OEM {themselves or through reseller(s)}~~ should have supplied **and installed** any storage solution with following capacity in last three financial Years 1. At least one single order of 4 PB or higher storage solution or 2. At least 2 orders each of 2.5 PB or higher storage solution or 3. At least 3 orders each of 2 PB or Higher storage solution

Bid for Procurement of Object storage with 5 PB usable Space in a three-site configuration (i.e., GSDC Gandhinagar, Near-DR Vadodara, Far-DR Bhubaneshwar) on Behalf of Department of Science and Technology, Gandhinagar (GeM bid no. GEM/2023/B/3972430 dated 20.09.2023)

Sr. No.	Volume & Section	Bid Clause	Remarks / Modified / added Clause
		Corrigendum-1 dated 16-03-2024	
9	**Additional Eligibility Evaluation Criteria: Eligibility Criteria-6**	The OEM should have implemented any storage solution with following capacity in last three financial Years 1. At least one single order of 4 PB or higher storage solution or 2. At least 2 orders each of 2.5 PB or higher storage solution or 3. At least 3 orders each of 2 PB or Higher storage solution	The OEM should have ~~implemented~~ **supplied and installed** any storage solution with following capacity in last three financial Years 1. At least one single order of 4 PB or higher storage solution or 2. At least 2 orders each of 2.5 PB or higher storage solution or 3. At least 3 orders each of 2 PB or Higher storage solution
10	**Technical Specification 35**	Enterprise file synchronization and sharing software services to enable users to securely synchronize and share documents from end devices (laptop, mobile, pc, etc.) Minimum File sync and share software features: 10000 users, concurrency at least 1000 users. Additional user licenses if required, can be purchased at the same rate during the contract period. All required hardware, software or any other component including licenses has to be provided by bidder.	Enterprise file synchronization and sharing software services to enable users to securely synchronize and share documents from end devices (laptop, mobile, pc, etc.) Minimum File sync and share software features: ~~10000~~ **2000** users, concurrency at least 1000 users. Additional user licenses if required, can be purchased at the same rate during the contract period. All required hardware, software or any other component including licenses has to be provided by bidder.

Procurement of Object storage with 5 PB usable Space in a three-site configuration (i.e., GSDC Gandhinagar, Near DR-Vadodara, Far-DR Bhubaneshwar) on Behalf of Department of Science and Technology.

Additional Eligibility Evaluation Criteria:

S/N	Eligibility Criteria	Attachments
1.	The bidder would be a company registered/incorporated under Indian company Act. and must have 5 years of existence in India.	Copy of certificate of Incorporation/PAN/ GST registration Certificate.
2.	Bidder should be an established IT System Integrator and should have been engaged in IT/ITES projects/solutions business for a period of at least five years as on the last date of BID submission.	Work Orders / Client Certificates confirming year and area of activity should be enclosed.
3.	The bidder must have average annual turnover of Rs. 30 Crore (Minimum) from IT/ITeS in any three financial years out of last four Financial Year as on 31st March 2023.	The copies of Audited Annual Accounts/Balance Sheet along with Profit & Loss Account and CA Certified Statement for last three financial years as on 31st March 2023 shall be attached along with the bid.
4.	The bidder must have positive Net worth or should be Profit making in any three financial years out of last four Financial Year as on 31st March 2023.	The copies of CA Certified Statement for last three financial years as on 31st March 2023 shall be attached along with the bid.
5	The Bidder should have supplied **and installed** any storage solution with following capacity in last three financial Years 1. At least one single order of 4 PB or higher storage solution or 2. At least 2 orders each of 2.5 PB or higher storage solution or 3. At least 3 orders each of 2 PB or Higher storage solution	Details of such projects undertaken along with Copy of Work Order & Work ongoing / Completion certificate of the project from respective clients clearly stating the scope, status (percentage completion) and the contact details of the authority.
6	The OEM should have **supplied and installed** any storage solution with following capacity in last three financial Years 1. At least one single order of 4 PB or higher storage solution or 2. At least 2 orders each of 2.5 PB or higher storage solution or 3. At least 3 orders each of 2 PB or Higher storage solution	Details of such projects undertaken along with work order/purchase order copy/clients' on-going or completion certification/letter signed/ e-mail issued by authorized signatory or company secretary with the details w.r.t to the clause should be enclosed. Details of work implementation certificate/ letter signed/ e-mail issued by authorized signatory or company secretary with the details w.r.t to the clause should be enclosed.

7.	The bidder should be authorized by its OEMs to quote their product for this bid as authorized representative, submit bid compliances and responsible for after sales support. The bidder should also have a back-to-back support agreement/arrangement for services including supply of spare parts etc. with the Original Equipment Manufacturer (OEMs). * *In case the Proposed Object storage OEM uses any third party HW/SW to complete the required solution of this bid; the bidder has to submit the MAF, Brochure and other details of respective third-party OEM's.	The Bidder should upload the copy of Authorization on OEMs letterhead dully signed by the OEMs authorized signatory for the item(s) to be offered in this bid
8.	Bidder and OEM should not be blacklisted by any Ministry of Government of India or by any State Government of India or any of the Government PSUs as on the last date of BID submission.	Self-Declaration/Certificate/affidavit mentioning that the Bidder and OEM is not blacklisted as per the clause.
9.	The Bidder should have at least one office in Gujarat which can provide 24x7 technical support & service to meet SLA	The copy of Property tax bill/Electricity Bill/Telephone Bill /GST /CST, etc. should be enclosed. In case the Bidder is not having any office in Gujarat, then bidder should submit a letter of undertaking to open the office in Gujarat within 45 days from the date of award.

1. All details and the supportive documents for the above should be uploaded in the GeM bid.
2. Bidder's experience, bidder's turn over criteria will not be considered of GeM bid. However, bidder must match eligibility criteria, experience, bidder's turn over criteria, etc. as mentioned above (& in this document) and will be considered for evaluation. EMD and PBG should submitted by bidder as per GEM.

Clarification regarding this Tender:

• A prospective Bidder requiring any clarification of the bidding documents may seek clarifications by submitting queries on email Id: mgrhninfra1-gil@gujarat.gov.in, dgmTech-gil@gujarat.gov.in prior to the date of Pre-Bid Meeting. No bid queries would be entertained post completion of Pre-Bid Meeting.

- Tenderer will discuss the queries received from the interested bidders in the Pre-Bid Meeting and respond the clarifications by uploading on the website https://gil.gujarat.gov.in.
- No further or new clarification whatsoever shall be entertained after the Pre-Bid Meeting.
- The interested bidder should send the queries as per the following format:

Bidder's Request for Clarification		
Name of Organization submitting Request	Name & position of person submitting request:	Address of organization including phone, fax, email points of
S.No.	Bidding Document Reference (Clause	Content of RFP requiring Clarification	Points of Clarification Required
1			
2			

Scope of work:

1. The scope is to supply Object storage with 5 PB usable Space in a three-site configuration (i.e., GSDC Gandhinagar, Near DR- Vadodara, Far-DR Bhubaneshwar.), install, configure, test and commission the required hardware, software (including all active and passive components and sub-components) and necessary licenses, if any along with the 5 years of Comprehensive warranty and OEM Support at GSDC.

2. The objective of this RFP to deploy and implement Scalable Object-based Storage Solution of 5 Peta Byte (PB) Usable capacity which needs to be stretched across three sites i.e., GSDC Gandhinagar, Near DR- Vadodara, Far-DR Bhubaneshwar and an Enterprise file sync and share software (native or integrated with third-party).

3. Array/Appliance with 5PB usable Space in a three-site configuration is distributed geographically to provide 2 PB usable at GSDC at Gandhinagar, 1PB usable at Near-DR at Vadodara and 2PB usable at Far-DR at Bhubaneshwar. (Usable space means amount of storage space that will be available for storage after all system overheads are accounted for including but not limited to data protection, metadata, space required for objects pending garbage collection, etc.)

4. The licenses should be in the name of Department of Science and Technology, Government of Gujarat valid perpetual for life.

5. The OEM support credentials should in name of DST/GIL and handed over to GSDC/DST/GIL.

6. The bidder is responsible for physical connectivity (within site) of the proposed solution. The required ports on switch for such connectivity will be provided.

7. The Bidder shall configure the proposed solution in such a way that it should comply with all the policies of the Gujarat State Data Centre.

8. The bidder along with the OEM professional should be available onsite for solution design, Installation, and implementation.

9. The bidder shall provide various documents like HLD, LLD and other technical documents of delivered product. The Bidder shall also share the Standard Operating

Procedures Templates, Troubleshooting guide, "How-To" knowledge base, Escalation matrix etc.

10. The installation, implementation, commissioning, and migration shall be carried out by the OEM.

11. The bidder is required to submit the certification from the OEM of the proposed solution confirming successful implementation, testing, commissioning, and satisfactory deployment of the proposed solution based on the industry best practices as a part of FAT.

12. Successful bidder in coordination with the representatives from the TENDERER/GIL/GSDC shall conduct FAT of the solution.

13. The Successful bidder shall be responsible for rectification of discrepancies identified by the TPA/any other authorized representative while conducting FAT. Further on rectification of all the discrepancies identified during the FAT, DST/GIL/GSDC representative will re-conduct the FAT or if agreed FAT will be signed.

14. The successful bidder shall be responsible for obtaining FAT certificate (Sign-off) on completion of the work as per the scope of work, functional and technical requirements.

15. After FAT, successful bidder has to handover the complete solution to existing GSDC operator (DCO) for O&M. The Bidder will be responsible for providing required training to the GSDC staff for further O&M.

16. During the term of the contract, if any disk is required to be replaced for any reasons, then the existing disk needs to be kept with GSDC and won't be returned back

17. The bidder should be authorized by its OEM and third-party OEMs to quote this bid for the authenticity, authorized representation and after sales support. The maximum response time to attend any onsite call should not exceed 4 hours from the initial call to the bidder / response center. The bidder is required to arrange back-to-back support agreement/arrangement for services including supply of spare parts with 24 hours repair/replacement time commitment.

18. DST/GIL/GSDC are in process for finalization of location for Far/Near DR. The bidder is liable for two-time relocation and reinstallation at Far/Near DR location without any additional cost to the tenderer.

Warranty Support: As part of the warranty services bidder shall provide:

1.1. Bidder shall provide a comprehensive on-site free warranty for 5 years from the date of FAT for proposed solution.

1.2. Bidder shall also obtain the five-year OEM premium support (ATS/AMC) on all licensed software, hardware, and other equipment for providing OEM support during the warranty period.

1.3. Bidder shall provide the comprehensive manufacturer's warranty and support in respect of proper design, quality and workmanship of all hardware, equipment, accessories etc. covered by the bid. Bidder must warrant all hardware, equipment, accessories, spare parts, software etc. procured and implemented as per this bid against any manufacturing defects during the warranty period.

1.4. Bidder shall provide the performance warranty in respect of performance of the installed hardware and software to meet the performance requirements and service levels in the bid.

1.5. Bidder is responsible for sizing and procuring the necessary hardware and software licenses as per the performance requirements provided in the bid. During the warranty period bidder, shall replace or augment or procure higher-level new equipment or additional licenses at no additional cost in case the procured hardware or software is not adequate to meet the service levels.

1.6. If the solution fully /partially fails during FAT, the bidder must repair or replace by equivalent or higher-level of new equipment at no cost to the tenderer after approval from GSDC.

1.7. Mean Time between Failures (MTBF): If during contract period, any equipment has a hardware failure on four or more occasions in a period of less than three months, it shall be replaced by equivalent or higher-level of new equipment by the bidder at no cost.

1.8. For any delay in arrangement of replacement / repaired equipment's for inspection, delivery of equipment's or for commissioning of the systems or for acceptance tests / checks at each/ any site; DST/GIL reserves the right to charge a penalty.

1.9. During the warranty period, the bidder shall maintain the systems and repair / replace the components to keep the solution operational at the installed site at no extra charges to the organization.

1.10. The bidder shall as far as possible repair/ replace the equipment at site.

1.11. Warranty should not become void, if DST/GIL buys, any other supplemental hardware from a third party and installs it within these machines under intimation to the bidder. However, the warranty will not apply to such supplemental hardware items installed.

1.12. Bidder shall monitor warranties to check adherence to preventive and repair maintenance terms and conditions.

1.13. Bidder shall ensure that the warranty complies with the agreed Technical Standards, Security Requirements, Operating Procedures, and Recovery Procedures.

1.14. Bidder shall have to stock and provide adequate onsite and offsite spare parts and spare component to ensure that the uptime commitment as per SLA is met.

1.15. Any component that is reported to be down on a given date should be either fully repaired or replaced by temporary substitute (of equivalent configuration) within the time frame indicated in the Service Level Agreement (SLA).

1.16. Bidder shall develop and maintain an inventory database to include the registered hardware warranties.

1.17. To provide warranty support effectively, OEM should have spare depo in India and will be asked to deliver spare as per SLA requirement.

1.18. After completion of 5 years' warranty/ CAMC period, if required, DST/GIL may extend the warranty/CAMC support for further period of 2 years (6th year and 7th year) on the derived rates of average cost of 5 years CAMC cost quoted. Bidder is required to provide the undertaking for the same mentioning that they will provide 6th year and 7th year warranty/ CAMC support.

1.19. Management should be in HA, and required hardware, software, license and other components should be provided by bidder from the day-01.

1.20. Design, implementation should be done by OEM.

1.21. MIS reports should be submitted by bidders as and when asked by DST/GIL/GSDC.

Minimum Technical specifications:

Sr. No.	Minimum Requirement Specification	Compliance (Yes/No)	Reference Detail
A	**Proposed Object Storage Make & Model:**		
1	Array/Appliance with 5PB usable Space in a three-site configuration i.e., GSDC Gandhinagar, Near DR- Vadodara, Far-DR Bhubaneshwar distributed geographically to provide 2 PB usable at GSDC, 1PB usable at Near-DR and 2PB usable at Far-DR. (Usable space means amount of storage space that will be available for storage after all system overheads are accounted for including but not limited to data protection, metadata, space required for objects pending garbage collection, etc.)		
2	The object storage cluster shall be scalable to minimum 50 PB in a single cluster/ namespace by adding drives and nodes.		
3	Proposed Object storage must provide automatic balancing of the stored capacity across all nodes in a cluster, ensuring data gets distributed across all nodes. When new nodes are added or removed from the cluster, existing data should be redistributed among all nodes.		
4	Storage system must be offered with no single point of failure		
5	Proposed object storage should support NL-SAS/SATA and SSD drives		
6	Offered storage should provide versioning at the granularity of object/bucket.		
7	Storage should be offered with the capability of data reduction. Licenses should be provided from day one for entire capacity. Storage should support encryption, auto-configuration, and self-healing features.		
8	The system must support encrypting data at rest.		
9	The system must be able to support Write Once Read Many (WORM)		
10	The system Should have Role Base Access Control or IAM or equivalent mechanism with Integration with Active Directory and LDAP.		
11	The system must provide System audit trail		
12	The system must be able to support Anti-Virus Scanning or able to integrate with third party anti-virus solution		
13	The system should have automated system integrity and data integrity checks built in to prevent		

	data loss data integrity issues due to data inconsistencies or object corruption		
14	The storage system should provide protection against ransomware or able to integrate with third party ransomware protection solution.		
15	All devices should be IPv6 implementation ready from day 1		
16	All the required or necessary licenses must be perpetual and should be provided for the entire offered capacity. This should include licenses for Management and monitoring module and all other features of the object storage.		
18	Type of Drive: SATA/ NL-SAS		
19	Specialized ToR 10/25 Gbe or higher with High Availability as Quoted (if required) Switches per rack		
20	Data Protection: All Data should be available even if one site failed and multiple disks at a site are failed		
21	Protocols Supported by the Storage from day 1: S3, REST API, HTTP, HTTPS, etc		
22	Must provide access for a variety of operating systems (UNIX, Mac, Linux, and Windows latest and legacy versions)		
23	Built in self-healing; automatic failure detection Global namespace with active data access and modification; support for nodes of different generations; should be expandable vertically with the addition of disks and horizontally with the addition of nodes; vertical expansion must be no disruptive. Support for metadata search: all disk and controller rebuilds should leverage protection within same site and should not consume WAN bandwidth to greatest extent feasible and meta-data search should be fast and accordingly SSD should be factored for metadata storage; should offer content protection using replication and Erasure coding irrespective of object size; support for multi tenancy and quota limits; metering capability; built in dashboard for capacity, object count etc.; support for audit trails; REST API support for advanced monitoring and management		
24	Under no conditions shall a capacity expansion lead to a reduction in system throughput.		
25	Garbage collection process must be dynamically or automatically tunable while meeting throughput requirements without impacting GET/ PUT latency.		
26	Throughput of 1GBPS up to 6K (per 1 PB usable capacity) transactions per second with 500KB size, assuming 25% PUT, 25% DEL, 50% GET. Growth		

	to 600k transactions per second. System background tasks are not included in the transaction rate.		
27	Object storage system must provide for ability to recover objects deleted by end-users and/or systems administrators via API for at least 7 days. The time period that objects can remain recoverable must be dynamically tunable.		
28	Object storage system must be able to dynamically grow from three site configuration to four site configuration while supporting the data protection requirements in each site. The RTO of such failover, including both data and metadata, at the object storage level, must be zero or near-zero. Similarly, RPO for object storage shall be zero or near-zero. Object storage system shall be capable of self-healing (without manual interventions) for outages up to one week in duration.		
29	Bidder must ensure if Load balancer and Network Switches are recommended to integrate object storage, then same must be offered in redundant config and must be sized to offer the asked throughput. Bidder must ensure that Load Balancer supplied should be scalable		
30	Bidder must ensure that object storage should be configured to protect from no data loss and data unavailability in the case of both scenarios occurring one by one (a) simultaneous failure of any 4 disks, including SSD (b) simultaneous failure of any 2 nodes OR controllers.		
31	Scope of supply must include installation, commissioning & integration together with all necessary software, hardware, licenses, racks, iPDU, power cord, or any other component for the working of the solution etc to make the system fully functional as intended.		
32	Should have ability to identify and tag data depending on content with the ability to search based on meta-data		
33	Should support Object Sizes varying from few-KBs to few-GBs/TBs		
34	Migration from existing storage to proposed object storage (approx. 1PB)		
35	Enterprise file synchronization and sharing software services to enable users to securely synchronize and share documents from end devices (laptop, mobile, pc, etc.) Minimum File sync and share software features: 2000 users, concurrency at least 1000 users. Additional user licenses if required, can be purchased at the same rate during the contract period. All required hardware, software or any other		

	component including licenses has to be provided by bidder		
35a	**Provide** multi-tenancy and data allocation and segregation per tenant, role-based access per tenant		
35b	File Preview Easily search Metadata Version Control Upload singularly or in bulk Share & Distribute files and folders Tenants, Groups & Users wise access Intuitive, modern web-based user interface, RESTful API Integration, Role based access, LDAP directory integration,		
35c	File Locking - Lock files to prevent users from making concurrent edits that could cause file conflicts. Users are notified when files are locked or equivalent solution.		
35d	File Versioning - Versioning-Feature for files which allows rollback to older file versions		
35e	File Tagging - Add specific tags to your files. This feature allows smart filtering of files and works with shared files as well 3rd party software can be integrated.		
35f	Content Sharing - Sharing of files and more with users via an anonymous link (password protection, expiration date possible)		
35g	Sharing Permission Management - Feature to selectively restrict access to shared content (Create, Edit, Delete, Reshare)		
35h	Tenants, Groups & Users - Only giving specific users or organisations access to certain assets & time limit the access		
35i	Large File Support (>4 GB)		
35j	Sharing Assets Securely - Sharing assets securely with no file size limitations & revocable access		

Note: Bidder must provide proposed solution with afore mentioned Minimum Requirement Specification and provide Necessary license, support to meet technical specifications from day1.

Uptime: It is required to maintain uptime of 99.741% in line with the existing GSDC uptime. Further, bidder is responsible for providing comprehensive warranty and support (24x7x365) for the period of five years from the date of successful completion FAT.

IMPLEMENTATION TIMELINES & PENALTIES:

Successful bidder has to complete the Installation, Configure, Commissioning, Integration with Acceptance of the ordered work within the time period (s) specified in

the below table. However, in case of any delay solely on the part of successful bidder TENDERER reserve the right to levy the appropriate penalties as per the below table:

S/n	Work type	Time Limit for Execution	Penalty for Delay	Maximum Penalty	Overall Penalty Cap
1	Submission of PBG and HLD to be submitted to the committee for the approval	Within 07 working Days from date of issuance of GEM contract	EMD will be forfeited, and contract will be terminated or part thereof	-	-
1	Supply of the material including Licenses & OEM Warranty Certificate.	T1=T+~~60~~ **90** days from the date of issuance of work order	**0.5%** of order value of delayed/pending work per week or part thereof	10% of order value	Overall Penalty CAP is not more than 10 % of the order value for IMPLEMENTATION TIMELINES & PENALTIES:
2	Installation, commissioning & integration	T2=T1+30	**0.5%** of order value of delayed/pending work per week or part thereof	10% of order value	
2	Final Acceptance Testing (FAT)	T3=T2+15 days	**0.5%** of order value of delayed/pending work per week or part thereof	10% of order value	
3	Training	15 Days from T3	Rs. 1000/- day.	Rs. 25000/-	

Note:
- Material supplied, installed and commission as per this Bid/contract should be covered under the warranty for a period of five years from the date of FAT.
- T= Date of issuance of contract over GEM/ LOI.
- CAMC value for each year should not less than 7 % of CAPEX Value
- Aforesaid penalty cap will not be applicable for any severe impact/incident/outage at GSDC, resulting in loss to Government of Gujarat.
- In case of any fault arises in the installed items during the warranty period of five years, bidder is requiring to either repair the faulty items or have to install the replacement (complying to the RFP specification) for faulty material without any additional cost to the Tenderer.

- **In case of Non-Compliance of RFP Specification:**

- o Any time during the warranty period it is found that the materials supplied/Installed/commissioned are not as per the specification of the RFP/work order TENDERER reserves the right to ask the successful bidder to replace all such material at free of cost.
- o Successful bidder requires to attend and rectify the non-compliance within seven (7) days of receipt of such notice/information from the DST/GIL. If, successful bidder fails to attend and rectify the same, then successful bidder shall reimburse DST/GIL all costs and expenses incurred for such defect rectification.

Operational Penalty:

- The successful bidder shall repair/ replace all faulty material covered under the warranty within the shortest possible time thus ensuring minimum downtime at any site, failing which applicable penalty will be imposed. In case of failure of appliance / solution for more than 3 consecutive time for the same issue, bidder would be bound to replace the product with no cost to GOG.
- The successful bidder shall be responsible for maintaining the desired performance and availability of the system/services.
- Successful bidder should ensure the prompt service support during warranty period.
- Timeline for resolution is within 24 hours from date of call logged / reported to Bidder/OEM. If the successful bidder fails to resolve the call as specified above, penalty will be imposed on each delayed day for 3000 Rs / Day, which will be recovered against Performance bank guarantee submitted by the successful bidder on completion of warranty period.

FINAL ACCEPTANCE TEST: To be carried out based on followings but not limited to:
- Successful implementation, compliance of all technical and functional specifications and scope mentioned in the RFP
- After successful installation of the System in accordance with the requirements as mentioned in Schedule of Requirement, Final Acceptance Test will be conducted. After successful testing, Acceptance Test Certificate will be issued by DST/its designated agency to the successful bidder. FAT Checklist is as per Form below:
- The date on which Acceptance certificate is issued shall be deemed to be the date of successful commissioning of the System. Warranty and licenses should be valid for period of 5 years from the date of issuance of Acceptance Certificate (FAT).
- Any delay by the successful bidder in the Acceptance Testing shall render the successful bidder liable to the imposition of appropriate Penalties.
- All goods and services that are not specifically asked for certification should have quality standard applicable in India such as ISI.

Sr. No.	Item	Remarks
1	Device Should be configured as per GOG instruction. Should follow ISO Norms as per data center.	
2	Device as per the technical specification	
3	Numbering / tagging	
4	Network Architecture – Implementation.	
5	Bill of Materials details	
6	Customer Site completion report.	

ADDITIONAL DOCUMENT TO BE SUBMITTED:

In the technical bid section of GeM, the bidder is required to upload following documents.

1. MAF (Including 7 years support), Brochure and OEM Compliance of the Offered product along with cross reference to the product compliance on OEM Letterhead.
2. BOQ with part-code as well as other software and/or hardware components required to complete the solution on OEM letterhead for proposed solution.
3. MAF (Including 7 years support), Brochure and OEM Compliance of third-party OEM's (if any) whose software / hardware are quoted to complete the proposed solution, Architecture diagram of proposed solution.
4. Compliance of the SOW, SLA, and Payment terms etc as uploaded as part of the GeM Bid on bidder's letterhead.
5. Undertaking as per guidelines published by Ministry of Finance, Dept. of Expenditure, Public Procurement division dated 23.07.2020 in the given format by Bidder as well as OEM.

SERVICE LEVEL AGREEMENT:

Sr No	Target	Penalty
1	Priority Level 1 Incident - Within 1 hr. Priority Level 2 Incident - Within 6 hr. Priority Level 3 Incident - Within 12hr.	• Level 1 Incident 0.25% of yearly CAMC payment for every 1-hr. delay in resolution; with max cap of 10% of total CAMC value; **it will be adjusted from Yearly CAMC payment.** • Level 2 Incident 0.25% of yearly payment for every 3-hr. delay in resolution; with max cap of 10 % of total CAMC value; **it will be adjusted from Yearly CAMC payment.** • Level 3 Incident 0.25% of yearly payment for every 6 hrs. delay in resolution; with max cap of 10 % of total CAMC value; **it will be adjusted from Yearly CAMC payment.** The max cap of 10% of total CAMC will not be valid for any major outage that impacts the business and penalty will go on adding hourly penalty till the issue is resolved.

- Priority Level 1: Complete Solution failure or not in working condition or not accessible.
- Priority Level 2: Solution is not functioning properly due to failure of any hardware/software/part(s)/ component(s) or performance of the solution is down or degraded (in terms of latency and response time)
- Priority Level 3: Any other issues except Priority 1 & 2 above.

- Detailed RCA report should be submitted for all P1 Call.

Payment Schedule

1. 80% on successful hardware, software, design documents, licenses delivery of Capex
2. 10 % Capex on Successful installation, configuration, integration, and migration of approx. 500TB of unstructured data
3. 10 % successful FAT & Training of Capex
4. Payment of 5 years Comprehensive Warranty & OEM Support Charges in five equal instalments at the end of every year.

SLA for Uptime

SLA	Target	Penalties in case of breach in SLA
Uptime for Object Storage	>=99.741%	No penalty
Uptime for Object Storage	<99.741%	In case of failure of Object storage and non-maintaining targeted value, 0.5% of yearly CAMC payment for every hour. Delay in resolution will add-on hourly penalty with max cap of 10 % of total CAMC value; **it will be adjusted from Yearly CAMC payment and PBG**. The max cap of 10% of total CAMC will not be valid for any major outage that impacts any business of GOG and penalty will go on adding hourly penalty till the issue is resolved. In addition, bidder has to provide additional PBG accordingly within a week (as per actual calculation).

- SLA will be calculating on monthly basis, However, Final penalty deduction on the yearly payment of CAMC value i.e., (12*1 monthly SLA report penalty will be applied during CAMC yearly payment.)

- Bidder has to ensure support of 365*24*7 for SLA calculation.

PRICE BID SCHEDULE:

Sr. No.	Description	Cost including GST (Rs.)
1	Capex-Cost of object storage with 5 PB usable Space in a three-site configuration and Enterprise file sync and share software (native or integrated with third-party): Inclusive of all the required hardware, Software and necessary Licenses required to make the solution fully functional. As per the Scope of work, functional and technical requirement, including all cable & accessories, Installation, testing, commissioning, and training etc.	
1.1	Propose solution - Cost for 1st year Comprehensive warranty and OEM Support	
1.2	Propose solution - Cost for 2nd year Comprehensive warranty and OEM Support	
1.3	Propose solution - Cost for 3rd year Comprehensive warranty and OEM Support	
1.4	Propose solution - Cost for 4th year Comprehensive warranty and OEM Support	
1.5	Propose solution - Cost for 5th year Comprehensive warranty and OEM Support	
Total cost (Rs.)		

Note:
- L1 will be the lowest sum total of rates of all line items including GST as per GeM GTC.
- TENDERER/GIL may negotiate the prices with L1 Bidder, under each item/head offered by Bidder.
- RA has been enabled in the GEM Bid.
- CAMC value for each year should not less than 7 % of CAPEX Value.
- The Bidder has to submit detailed breakup in separate sealed for proposed solution on or before bid submission date. L1 bidder post RA has also to submit the same within 3 days after RA.
  Bidder has to submit separate sealed cover for EMD & financial break up. Also, subject should be super-scribed on sealed cover.

Sub: Undertaking as per Office Memorandum No.: F. No.6/18/2019-PPD dated 23.07.2020 published by Ministry of Finance, Dept. of Expenditure, Public Procurement division

Ref: Bid Number: _____

I have read the clause regarding restriction on procurement from a bidder of a country which shares a land border with India. I certify that we as a bidder and quoted product from following OEMs are not from such a country or, if from such a country, these quoted products OEM has been registered with competent authority. I hereby certify that these quoted product & its OEM fulfills all requirements in this regard and is eligible to be considered for procurement for Bid number_____.

No.	Item Category	Quoted Make & Model

In case I'm supplying material from a country which shares a land border with India, I will provide evidence for valid registration by the competent authority, otherwise GIL/End user Dept. reserves the right to take legal action on us.

(Signature)
Authorized Signatory of **M/s <<Name of Company>>**

Sub: Undertaking as per Office Memorandum No.: F. No.6/18/2019-PPD dated 23.07.2020 published by Ministry of Finance, Dept. of Expenditure, Public Procurement division

Ref: Bid Number: _____

Dear Sir,

I have read the clause regarding restriction on procurement from a bidder of a country which shares a land border with India. I certify that our quoted product and our company are not from such a country, or if from such a country, our quoted product and our company have been registered with competent authority. I hereby certify that these quoted products and our company fulfills all requirements in this regard and is eligible to be considered for procurement for Bid number_____.

No.	Item Category	Quoted Make & Model

In case I'm supplying material from a country which shares a land border with India, I will provide evidence for valid registration by the competent authority; otherwise, GIL/End user Dept. reserves the right to take legal action on us.

(Signature)
Authorized Signatory of **M/s <<Name of Company>>**