

Query No	Bidder	Sr. No. (Bidder's)	Tender Clause No. / Annexures	Page No.	Bidders Comments / Queries	Gujarat Gas Reply / Clarifications to All Bidders	Extra Field added by Bidders	Extra Field added by Bidders_1
107		23	Annexures 1	12	<p><b>Original Clause:</b>Snapshot, Clones, Mirror &amp; Replications. Data should be protected from Ransomware, virus , malware protection attacks.</p> <p><b>Changed Clause:</b>Snapshot, Clones, Mirror &amp; Replications. Data should be protected from Ransomware.</p> <p><b>Justification:</b>Virus &amp; Malware are host based solution, so we request to kindly keep it on host based solution , not on storage.</p>	refer revised SOW		
108		24	Technical Specifications / Requirement of Digital File storage Storage at GGL Locations	13	<p><b>Original Clause:</b>Digital File Storage Soution should have Native Windows user experience for SMB – SMB v2 and v3 support, ensuring all vulnerabilities are taken care.</p> <p><b>Changed Clause:</b>Digital File Storage Solution should have support for SMB v2 and SMBv3.</p> <p><b>Justification:</b>This is an OEM specific clause . Please update for wider participation.</p>	refer revised SOW		

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109		25	Technical Specifications / Requirement of Digital File storage Storage at GGL Locations	13	<b>Original Clause:</b> File share, Folder Level Quota management configuration <b>Changed Clause:</b> User Level Quota, Group Level quota management configuration <b>Justification:</b> Folder level quota is limited offering for Windows storage server/Wnodws server, it s not effective mechanism as if multiple users are accessing same forlder then folder level quota will restrict all users, hence user or group level quota is better mechanism to control.	Tender term prevails		
110		26	Technical Specifications / Requirement of Digital File storage Storage at GGL Locations	13	<b>Original Clause:</b> Data Encryption, Compression, Archived, Content Indexed <b>Changed Clause:</b> Data Encryption, Compression <b>Justification:</b> we would request to remove oe elaborate in generic terms as archived and content indexed are specific terms used by particular OEM, archival & content indexing are specifically not required as files can be searched using internal metadata.	refer revised SOW		

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111		27	Technical Specifications / Requirement of Digital File storage Storage at GGL Locations	13	<b>Original Clause:</b> Deduplication at Share/folder level <b>Changed Clause:</b> Deduplication at storage/volume level <b>Justification:</b> Deduplication is always enabled/disabled at storage or volume level, folders or directories are created in Volumes hence it is not possible to enable/disable dedup at folder/directory level.	refer revised SOW		
112		28	Technical Specifications / Requirement of Digital File storage Storage at GGL Locations	13	<b>Original Clause:</b> File Versioning with minimum 3 versions <b>Changed Clause:</b> File Versioning with min 3 versions/snapshot with minimum 255 snapshots <b>Justification:</b> File versioning is specific to particular OEM, as an alternate snapshots can be used for recovery of particular file/data	refer revised SOW		

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113		29	Technical Specifications / Requirement of Digital File storage Storage at GGL Locations	13	<p><b>Original Clause:</b> Solution should support reporting functionality for AD user wise / department wise / File extension wise / File and Folder Size wise.</p> <p><b>Changed Clause:</b> Solution should support reporting functionality at LUN/Nodes/aggregates level for capacity, performance etc.</p> <p><b>Justification:</b> AD is part of Windows server based solution any related reports has to be generated from Windows server.</p>	Bidder may include third party solution to achieve this functionality as discussed in pre-bid meeting		
114		30	Technical Specifications / Requirement of Digital File storage Storage at GGL Locations	13	<p><b>Original Clause:</b> Integration with Existing Windows DFS Namespace</p> <p><b>Changed Clause:</b> Please remove this clause.</p> <p><b>Justification:</b> We request to remove the same, as Windows DFS is proprietary product of Microsoft.</p>	refer revised SOW		

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115		31	Technical Specifications / Requirement of Digital File storage Storage at GGL Locations	13	<p><b>Original Clause:</b>Storage OEM/Vendors has to propose Digital File Storage solutions which are certified with their respective solutions. OEM has to submit the letter of OEM contract and support alignment with certified Digital File Storage for the support/contract period. Storage OEM's has to submit their ISV certified document.</p> <p><b>Changed Clause:</b>Storage OEM/Vendors has to propose Digital File Storage solutions which are certified with their respective solutions. OEM has to submit the letter of OEM contract and support alignment with certified Digital File Storage for the support/contract period. Storage OEM's has to submit their ISV certified document.</p> <p><b>Justification:</b>Please remove "Storage OEM's has to submit their ISV certified document." as the ISV certification is applicable for application vendors only.</p>	refer revised SOW		

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116		32	Annexures II	15	<p><b>Original Clause:</b>RAID 0 / 1 / 3 / 5 / 6 / 10. Should support Vmware ESXi 6.7 and above / Microsoft Hyper-V</p> <p><b>Changed Clause:</b>RAID 0 / 1 / 3 / 5 / 6 / 10/equivalent. Should support Vmware ESXi 6.7 and above / Microsoft Hyper-V</p> <p><b>Justification:</b>RAID 0,3 are in no more use and very OEM has diffent nomenclature for data protection RAID, so we request to kindly allow equivalent.</p>	refer revised SOW		
117		33	Annexures II	15	<p><b>Original Clause:</b> Network ports &amp; Speed: iSCSI-1Gbps, Fiber-8Gbps &amp; SAS-6Gbps, Copper</p> <p><b>Changed Clause:</b>Network ports &amp; Speed: iSCSI-10Gbps,40Gbps, Fiber-16Gbps &amp; SAS-12Gbps, Copper</p> <p><b>Justification:</b>Storage supports minimum 10Gbps ISCSI and SAS 12 Gbps</p>	refer revised SOW		
118		34	Annexures II	15	<p><b>Original Clause:</b> 1 Disk per 4 Disks</p> <p><b>Changed Clause:</b>2 Global hotspare. Every RAID group should have protection of 3 disks.</p> <p><b>Justification:</b>Every RAID group is already protected with 3 disks</p>	refer revised SOW		

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					failure, so entire storage is sufficient to have 2 global hot spare.			
119		35	Technical Specifications / Requirement of Central Storage at Datacentre	16	<p><b>Original Clause:</b>The Central storage must be factory integrated appliance/devcie/storage from single OEM of both hardware of Central &amp; Digital File storage/server/appliance.</p> <p><b>Changed Clause:</b>The Central storage must be factory integrated appliance/devcie/storage from single OEM. Stoarge OEM should should be same for both central &amp; edge storage</p> <p><b>Justification:</b>We request to make this more generic</p>	refer revised SOW		

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120		36	Technical Specifications / Requirement of Central Storage at Datacentre	16	<p><b>Original Clause:</b>Storage should be fully distributed, symmetrical and scale-out architecture with De-duplication facility , 10Gbps LAN Ports , fully re-dundant node should be a separate appliance or physical servers.</p> <p><b>Changed Clause:</b>Storage should be fully distributed, symmetrical/assymetrical and scale-out architecture with De-duplication facility , 10Gbps LAN Ports , fully re-dundant node/controllers.</p> <p><b>Justification:</b>we request you to kindly allow both node based architecture and controller based architecture.</p>	refer revised SOW		
121		37	Technical Specifications / Requirement of Central Storage at Datacentre	16	<p><b>Original Clause:</b>The Storage nodes in the Central storage must be provided with dual controllers. The Access nodes should be provided in minimum N+1 configuration.</p> <p><b>Changed Clause:</b>The Storage nodes in the Central storage must be provided with dual controllers.</p> <p><b>Justification:</b> Access node is not</p>	refer revised SOW		

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					required in controller based architecture			

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122		38	Technical Specifications / Requirement of Central Storage at Datacentre	16	<p><b>Original Clause:</b>Support data protection against 4 or more simultaneous drive failures across the storage nodes. Disk and node rebuilds should leverage protection from within the same site so as to avoid consuming expensive and limited WAN bandwidth and minimize rebuild times during rebuild operations.</p> <p><b>Changed Clause:</b>Support data protection against 4 or more simultaneous drive failures across the storage nodes/controllers. Disk and node rebuilds should leverage protection from within the same site so as to avoid consuming expensive and limited WAN bandwidth and minimize rebuild times during rebuild operations.</p> <p><b>Justification:</b>Please changes this clause for more clarity.</p>	refer revised SOW		

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123		39	Technical Specifications / Requirement of Central Storage at Datacentre	16	<p><b>Original Clause:</b>Central Storage solution should sustain fully two node failure &amp; Two Disk Failure at a same time.</p> <p><b>Changed Clause:</b>Central Storage solution should sustain fully 25% resource failure</p> <p><b>Justification:</b>we request to kindly qualify both controller based and storage based architecture.</p>	refer revised SOW	rebuild operations.	
124		40	Technical Specifications / Requirement of Central Storage at Datacentre	16	<p><b>Original Clause:</b>Central storage must support independent scaling &amp; decoupling of compute capacity and storage capacity to allow flexibility in expansion. Proposed Central storage Should be able to scale up, on compute and capacity resources independently, without any impact to users and applications.</p> <p><b>Changed Clause:</b> Please remove this Clause.</p> <p><b>Justification:</b> Please remove this point, as this is specific to node based architecture.</p>	refer revised SOW		

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125		41	Technical Specifications / Requirement of Central Storage at Datacentre	16	<p><b>Original Clause:</b>The proposed solution must be configured with Restful API, HTTPS, S3, CIFS, NFS Protocols for data access to applications.</p> <p><b>Changed Clause:</b>The proposed solution must be configured with Restful API, HTTPS, S3, CIFS, NFS Protocols for data access to applications</p> <p><b>Justification:</b>we request to remove HTTPs as this is not required for data accessing particularly.</p>	refer revised SOW		
126		42	Technical Specifications / Requirement of Central Storage at Datacentre	16	<p><b>Original Clause:</b>Should support auto-healing &amp; auto-repair features. Central Storage shall provide versioning capability to protect and record Central-level changes. Central Storage must support automated recovery of data from replica copy if Central is found corrupt.</p> <p><b>Changed Clause:</b>Should support auto-healing &amp; auto-repair features. Central Storage shall provide versioning/snapshot capability to protect and record Central-level changes. Central Storage must support automated recovery of data</p>	refer revised SOW		

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					<p>from replica copy/snapshot if Central is found corrupt.</p> <p><b>Justification:</b>we request to make the feature more generic</p>			
127		43	Technical Specifications / Requirement of Central Storage at Datacentre	16	<p><b>Original Clause:</b>The proposed Central storage must provide secure data retention features such as WORM feature, versioning, Central Level retention,privilege delete, retention hold,event-based retention.</p> <p><b>Changed Clause:</b>The proposed Central storage must provide secure data retention features such as WORM feature, versioning/snapshot, Central Level retention.</p>	refer revised SOW		

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					<i>Justification: we request to make the feature more generic</i>			
128		44	Technical Specifications / Requirement of Central Storage at Datacentre	17	<p><b>Original Clause:</b> Central storage should support strong data consistency for data reading after immediate data writing</p> <p><b>Changed Clause:</b> Central storage should support strong data consistency for data reading</p> <p><b>Justification:</b> we request to make the feature more generic</p>	refer revised SOW		

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129		45	Technical Specifications / Requirement of Central Storage at Datacentre	17	<p><b>Original Clause:</b>Central storage must be supplied with ability to tier objects from Digital File disk to external cheaper storage tier like S3 compliant storage, Public Cloud, NFS Volume etc.</p> <p><b>Changed Clause:</b>Central storage must be supplied with ability to tier objects from Digital File storage to external cheaper storage tier like S3 compliant storage, Public Cloud, NFS Volume etc.</p> <p><b>Justification:</b>we request to make the feature more generic</p>	refer revised SOW		
130		46	Technical Specifications / Requirement of Central Storage at Datacentre	17	<p><b>Original Clause:</b>Storage shall support multi-tenant architecture including ability to apply quota limits on specific sections within the object store. Central storage should allow different administrative rights over different tenants, and logical containers/buckets inside individual tenants.</p> <p><b>Changed Clause:</b> Storage shall support multi-tenant architecture including ability to apply quota limits. Central storage should allow different administrative rights</p>	refer revised SOW		

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					<p>over different tenants.</p> <p><b>Justification:</b> we request to make the feature more generic</p>			
131		47	Technical Specifications / Requirement of Central Storage at Datacentre	17	<p><b>Original Clause:</b>The Central storage must be provided with metadata- based search along to support discovery kind of requests, which must be tightly integrated with proposed Central storage</p> <p><b>Changed Clause:</b> Please make this Clause more generic.</p>	refer revised SOW		

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132		48	Technical Specifications / Requirement of Central Storage at Datacentre	17	<b>Original Clause:</b> File share, Folder Level Quota management configuration <b>Changed Clause:</b> User Level Quota, Group Level quota management configuration <b>Justification:</b> Folder level quota is limited offering for Windows storage server/Wnodws server, it s not effective mechanism as if multiple users are accessing same forlder then folder level quota will restrict all users, hence user or group level quota is better mechanism to control.	refer revised SOW		
133		49	Technical Specifications / Requirement of Central Storage at Datacentre	17	<b>Original Clause:</b> Data Encryption, Compression, Archived, Content Indexed <b>Changed Clause:</b> Data Encryption, Compression <b>Justification:</b> we would request to remove oe elaborate in generic terms as archived and content indexed are specific terms used by particular OEM, archival & content indexing are specifically not required as files can be searched using internal metadata.	refer revised SOW		

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134		50	Technical Specifications / Requirement of Central Storage at Datacentre	17	<b>Original Clause:</b> Deduplication at Share/folder level <b>Changed Clause:</b> Deduplication at storage/volume level <b>Justification:</b> Deduplication is always enabled/disabled at storage or volume level, folders or directories are created in Volumes hence it is not possible to enable/disable dedup at folder/directory level.	refer revised SOW		
135		51	Technical Specifications / Requirement of Central Storage at Datacentre	17	<b>Original Clause:</b> Integration with Existing Windows DFS Namespace <b>Changed Clause:</b> Please remove this clause. <b>Justification:</b> We request to remove the same, as Windows DFS is proprietry product of Microsoft.	refer revised SOW		

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136		1	<b>3.1 Hardware Requirements Specification- Minimum requirement -</b> Maximum 4U Rack mount appliance / storage / device / Server / hyperconverged server at GA/Branch offices and Maximun 10U rack mount appliance/device/ser ver at central Datacentre at Gandhinagar	Page No -5	Change of Clause Maximum 4U Rack mount appliance / storage / device / Server / hyperconverged server at GA/Branch offices and Maximun <b>19U</b> rack mount appliance/device/server at central Datacentre at Gandhinagar Justification For High Availability which is requested in RFP more number of nodes are desired and which will in turn require more rack space. Hence Request you to mention Max. 19U Rack mount	refer revised SOW		

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137		2	<b>3.1 Hardware Requirements Specification- Minimum requirement -</b> Storage response time shall be < 2 ms at Central Storage. Vendor shall provide storage solution accordingly and shall certify the solution for performance. All flash / SSD OR storage with desired performance (response time) shall be provided at Central location.	Page No -5	<i>Change of Clause Storage Throughput should be min. 5GB/s for Write and 8GB/s Read at Central Storage. Vendor shall provide storage solution accordingly and shall certify the solution for performance. All flash / SSD /HDD OR storage with desired performance (Throughput) shall be provided at Central location. Justification for Central file storage solutions , throughput is major factor to be considered than latency as how many people accessing it will make it more relevant</i>	<i>refer revised SOW</i>		
138		3	<b>3.2 Solution Features / Requirements -</b> Replication frequency shall be configurable at location and central location	Page No -6	<i>Change of Clause Replication frequency shall be configurable/Real Time at location and central location but User can pause the sync manually though</i>	<i>refer revised SOW</i>		

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139		4	<b>3.2 Solution Features / Requirements</b> - Solution should get integrated with active directory for access management, quota management, file extension restrictions etc.	Page No -6	Change of Clause Solution should get integrated with active directory for access management, quota management, file extension restrictions etc <b>which should be manageable by native Operating system or Proprietary Solution.</b>	refer revised SOW		

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140			<b>3.2 Solution Features / Requirements</b> - Central Reporting / administration tool required with following features: 1. Files monitoring and administration - i.e. File type wise, file date wise modification / access etc. reporting 2. Access Management monitoring and administration – i.e. user wise access to folders at multiple devices and solution level, removal of access / file / folder permission centrally 3. identification and modification (Add/delete) userwise and department wise permission across all offices	Page No -6	Please allow native or 3rd party OEM software integration for monitoring and administration	refer revised SOW		

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141		5	<b>3.2 Solution Features / Requirements- Training to Gujarat Gas team</b> Onsite Training at GGL office shall be for at least 3-5 days	Page No -7	Change of Clause Onsite/Remote Training shall be for at least 3-5 days and only authorized OEM personal shall deliver it with certificate of completion	Tender term prevails		
142			<b>6 Annexure-I (Digital File Storage Soution at GA /BRANCH Office) -</b> Snapshot, Clones, Mirror & Replications. Data should be protected from Ransomware, virus , malware protection attacks.	Page No - 12	Request you to remove Snapshot, Clones, Mirror & Replications.  Change of Clause <b>Digital File Storage solution should have Policy to expire local cache copy.</b> Data should be protected from Ransomware, virus , malware protection attacks. Justification Digital File storage is actually a caching device which in turn replicates the data to central location. hence, snapshot, Clones/ Mirror / replication availability is not relevant.	refer revised SOW		

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143			<b>6 Annexure-I (Digital File Storage Soution at GA /BRANCH Office) - Thin/Thick Provisioning and Space Reclaim required.</b>	Page No - 12	<p>Request you to remove Thin/Thick Provisioning and Space Reclaim required. Change of Clause</p> <p>Digital File Storage solution should have Policy to expire local cache copy.</p> <p>Justification Digital File storage is actually a caching device which in turn replicates the data to central location. hence, Thin/Thick Provisioning and Space Reclaim required is not relevant.</p>	refer revised SOW		
144			Data replication status report, track replication data (how much data is replicated to central master server and how much is left).	Page No - 13	Change / Removal of Clause Request you to remove this clause	refer revised SOW		

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145			Configure all storage related features – for example deduplication, replication, LUN provisioning, Cluster setup, Policy and Retention Settings	Page No - 13	Change / Removal of Clause Request you to remove this clause The requested features are more relevant and essential for central storage location not at Digital File Storage Soution at GA /BRANCH Office	refer revised SOW		
146			Deduplication at Share/folder level	Page No - 13	Change / Removal of Clause Request you to remove this clause The requested features are more relevant and essential for central storage location not at Digital File Storage Soution at GA /BRANCH Office	refer revised SOW		

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147			<b>7 Annexure-II (Central Storage at Datacentre )</b> All Flash OR with desired performance of response time. Storage shall provide < 2 ms response time.	Page No - 15	Change of Clause Storage Throughput should be min. 5GB/s for Write and 8GB/s Read at Central Storage. Vendor shall provide storage solution accordingly and shall certify the solution for performance. All flash / SSD /HDD OR storage with desired performance (Throughput) shall be provided at Central location. Justification for Central file storage solutions , throughput is major factor to be considered than latency as how many people accessing it will make it more relevant	refer revised SOW		
148			<b>7 Annexure-II (Central Storage at Datacentre )</b> RAID 0 / 1 / 3 / 5 / 6 / 10. Should support Vmware ESXi 6.7 and above / Microsoft Hyper-V	Page No - 15	Change of Clause RAID 0 / 1 / 3 / 5 / 6 / 10 / Erasure coding. Justification Sustaining 4 Hard disk failure erasure coding is the recommended technique	refer revised SOW		

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149			<b>7 Annexure-II (Central Storage at Datacentre )</b> Snapshot, Clones, Mirror & Replications. Data should be protected from Ransomware attacks.	Page No - 15	Change of Clause Snapshot/ Clones / WORM/ Mirror & Replications. Data should be protected from Ransomware attacks.	refer revised SOW		
150			<b>7 Annexure-II (Central Storage at Datacentre )</b> Global Hot Spare- 1 Disk per 4 Disks	Page No - 15	Change of Clause <b>1 Disk per 4 Disks or Provides enhanced data protection in a storage efficient fashion using Erasure coding, implements the Reed Solomon error correction using schemes 20+6 / 12+4 without any dependencies on RAID</b>	refer revised SOW		

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151			<b>7 Annexure-II (Central Storage at Datacentre )</b> Digital File Storage Soution should have functionality to configure the below: Configure all storage related features – for example deduplication, replication, LUN provisioning, Cluster setup, Policy and Retention Settings	Page No - 17	<i>Change / Removal of Clause</i> <i>Request you to remove this clause</i> <i>The requested features are more relevant and essential for central storage location not at Digital File Storage Soution at GA /BRANCH Office</i>	<i>refer revised SOW</i>		
152			<b>7 Annexure-II (Central Storage at Datacentre )</b> Deduplication at Share/folder level	Page No - 18	<i>Change / Removal of Clause</i> <i>Request you to remove this clause</i> <i>The requested features are more relevant and essential for central storage location not at Digital File Storage Soution at GA /BRANCH Office</i>	<i>refer revised SOW</i>		

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153			<b>7 Annexure-II (Central Storage at Datacentre )</b> Restriction of file extensionwise	Page No - 18	Change of Clause Solution should get integrated with active directory for access management, quota management, file extension restrictions etc <b>which should be manageable by native Operating system or Proprietary Solution.</b>	refer revised SOW		
154		1	General	Page No -4	Please share the No of Total Users including all the branch offices	refer revised SOW		
155		1	General	General	What is the bandwidth between individual location and centralized location?	refer revised SOW	General	
156		2	General	General	How many users at each location concurrently access file storage? How much is the average active data at each site ?	refer revised SOW	General	
157		3	General	General	In Current setup, are the fujitsu servers in redundancy?	single DFS box with one controller and redundant Hard-disk	General	
158		4	General	General	Do you have centralized AD (AD Containing all users across locations)?	Yes . AD is centralized	General	

Query No	Bidder	Sr. No. (Bidder's)	Tender Clause No. / Annexures	Page No.	Bidders Comments / Queries	Gujarat Gas Reply / Clarifications to All Bidders	Extra Field added by Bidders	Extra Field added by Bidders_1
159		5	3:2 SolutionFeatures/Requirements :1	6	Since the requirement for Individual location is less, requesting to make dedupe as and optional feature at Satellite location and mandatory at Centralize location. This will help you to avoid de-duplication penalties at satellite location.	refer revised SOW	Data Compression, encryption and deduplication features	

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160		6	3:2 SolutionFeatures/Requirements:2	6	Allow Quota report to be prepared without individual file information (summary capacity usage can be obtained for any user/group)	refer revised SOW	Access Management monitoring and administration – i.e. user wise access to folders at multiple devices and solution level, removal of access / file / folder permission centrally	

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161		7	3:2 SolutionFeatures/Requirements:3	6	in-line scanning should be managed on client (antivirus installed on the user desktop).	refer revised SOW	Solution should also support Anti-virus / EDR / XDR solution integration	
162		8	3:2 SolutionFeatures/Requirements:3	6	Time to Recover data (RTO) backup data, depends on size to be restored. Kindly confirm the size to commit on backup restore time.	refer revised SOW	Backup data shall be quick and easy to restore -.i.e. Time to Recover data (RTO) shall not exceed 24 hours at max	